# Water Licence 8BC-EUR2131

# 2022 Annual Report

# **Eureka High Arctic Weather Station**





# **Table of Contents**

			page
1.	Int	roduction	1
	1.1 1.2	Purpose of this Document Project Overview	
2.	Te	chnical Summary of Activities Undertaken in 2022	3
3.	Wo	ork Plan for 2023	4
4.	Wa	nter Use	5
	4.1	Location and Methods	5
5.	Wa	ste Disposal	6
	5.1 5.2 5.3	Location and Methods Unauthorized Discharges of Water Quantities	10
6.	Wa	ater Quality Monitoring Results	11
7.	Wa	ater License Inspection	13
8.	Re	visions to Applicable Management Plans	14
9.	Pro	ogressive Reclamation Work Undertaken in 2022	15
10.	Clo	osure	16
11.	Re	ferences	17
List	of	Figures	
Figure Figure		Eureka High Arctic Weather Station Site Overview	
Figure		Waste Disposal Facilities for the Eureka High Arctic Weather Station	

## **List of Tables**

Table 1:	Water Use Locations and Quantities at Eureka High Arctic Weather Station	5
Table 2:	Locations for Waste Storage & Disposal Sites at Eureka High Arctic Weather Station	
Table 3:	Sewage Lagoon (EUR-3) Water Quality Parameters and Results June 2022	11
Table 4:	Sewage Lagoon (EUR-3) Water Quality Parameters and Results August 2022	11

# **Appendices**

Appendix A. Standard NWB Annual Reporting Form

Appendix B. NT-NU Spill Reports
Appendix C. Laboratory Reports

#### 1. Introduction

The Eureka High Arctic Weather Station (HAWS; the Project; the site) is located on the north side of Slidre Fjord, at the northwestern tip of Fosheim Peninsula, Ellesmere Island, Nunavut (**Figure 1**). Since 1947, Environment & Climate Change Canada (ECCC) has owned and managed the overall operations and maintenance of the site under Land Reserve #1021. The total area of the Project is approximately 2.23 hectares. There are presently 15 primary buildings and other facilities at the HAWS. The Eureka airstrip is located 1.5 kilometres northeast of the HAWS main site and is the primary way by which the HAWS is accessed year-round.

The Eureka HAWS is an operational weather monitoring facility as well as a hub of activity for the Department of National Defence (DND), the Polar Continental Shelf Project and the Polar Environment Atmospheric Research Laboratory (PEARL). Additional sites at Eureka are operated by the Canadian Network for the Detection of Atmospheric Change including the PEARL and the Surface and Atmospheric Flux, Irradiance and Radiation Extension and Zero Altitude PEARL Auxiliary Laboratory (Arcadis 2018).

#### 1.1 Purpose of this Document

The purpose of the Water License 8BC-EUR2131 Annual Report is to provide a yearly reference and summary of all works related to water use completed for the Project in 2022. The Standard NWB Reporting Form is included in **Appendix A**. Per the terms and conditions outlined in the Type 'B' Water Licence 8BC-EUR2131, this document provides the following:

- A technical summary of activities of the Project undertaken for the respective year;
- A work plan for the following year;
- An annual summary of activities related to water use and the deposit of waste on site including tables and figures that show the locations of where permitted activities were undertaken;
- Water quality monitoring results; and
- Revisions to applicable Management Plans.

#### 1.2 Project Overview

ECCC is currently undertaking or planning a number of construction and infrastructure upgrade projects to the Eureka HAWS. To support these projects, ECCC has obtained a number of permits. Due to project updates, design changes, unforeseen issues such as the discovery of contaminated soils or the need for additional infrastructure to support the HAWS operation or projects, ECCC may be required to re-apply for new or amended licences and permits. The numerous improvement projects currently being undertaken or planned for include the following:

- Eureka Airport Runway Recapitalization Project
- Eureka Water and Wastewater Treatment Infrastructure Upgrades Project
- Fuel Tank Inspections
- Development of Landfarm
- Human Health and Ecological Risk Assessment and Remedial Action Plan
- Long Term Monitoring Plan
- Black Top and West Remus Quarry

EUREKA HIGH ARCTIC WEATHER STATIO WATER LICENSE 8BC-EUR1621 2020 ANN PUBLIC SERVICES AND PROCUREMENT CANADA, Project No.: 60638794 Date: January 2022

500 1,000 1,500

1:50,000 NAD 1983 UTM Zone 16N



# 2. Technical Summary of Activities Undertaken in 2022

The Eureka HAWS maintained operational activities throughout the year at the Eureka Main Complex. A technical summary of all activities undertaken in 2022 is listed below.

- Construction camp opening and fleet maintenance began May 7, 2022
- Construction crew began to ramp up June 9, 2022
- Major and minor equipment maintenance and repairs were completed in preparation for the construction season
- Construction of an exfiltration trench
- Road maintenance and repairs of access road to West Remus Quarry, including grading, culvert maintenance, freshet observations at Blacktop Creek bridge
- Upgrades and maintenance to the access road between the airstrip and HAWS operations building
- Repair of Blacktop Creek Bridge undermining of the east abutment required repair and reconstruction between July 21 24, 2022. All activities were observed by AECOM field personnel.
- Quarrying and crushing at West Remus Creek quarry
- Construction of the haul road extension and multi-culvert crossing of Remus Creek to access additional permitted quarry areas
- Hauling crushed granular materials from Blacktop quarry stockpiles to the new water reservoir
- As per quarrying permit 2022QP0002, a total of 45,266 cubic meters (m3) of aggregate was extracted from the West Remus Creek Quarry from June to September.
- Hauling of crushed granular materials from West Remus quarry to the new water reservoir
- Construction of foundation and new water reservoir berms approximately 60% complete
- Construction of high-density polyethylene (HDPE) lined storage area for containment of hydrocarbon contaminated soils discovered within the new reservoir development area
- Receiving and storing sealift freight for future Water and Sewer Infrastructure project
- Fleet winterization, camp shut down and demobilization of personnel on September 17, 2022

## 3. Work Plan for 2023

The construction program summary presented below outlines activities planned for 2023 summer field season (June – September). The proposed 2023 construction schedule and activities outlined below are subject to changes and restrictions related to COVID. The summary below assumes similar restrictions and conditions encountered in 2022:

- Re-open camp and prepare fleet for summer construction –
- Ongoing operations of the site, routine facility maintenance, and runway operations.
- Program of Works Project Renovation and retrofit activities throughout building onsite.
- West Remus Creek Quarry Expansion Continuation of quarrying activities and crushing to provide aggregate material for other projects
- Black Top Creek Quarry Expansion Continuation of quarrying activities to provide aggregate material for other projects.
- Fuel Storage Tank Inspections Continuation of manual inspections and minor repairs of fuel storage tanks.
- Water & Sewer Infrastructure Upgrades:
  - Complete earthworks construction of the new raw water reservoir
  - Install liner system for the raw water reservoir
  - o Install foundation pads for four new pumphouse buildings
  - Construct foundation for new Wastewater Treatment Plant (WWTP) and install the WWTP
  - o Begin installation of piping, electrical and pumping systems
- Contaminated Soil and Landfarm Project:
  - Continue excavation and stockpile of hydrocarbon contaminated soil in various areas throughout the Site
  - Construction of onsite landfarm has been delayed and is now commencing in 2023. Stockpiled soil will be transferred to the landfarm once the landfarm is completed.
- Fuel/HazMat Secondary Containment Area Potential construction of a new secondary containment area at the Station to store fuel and other hazardous materials
- Winterize camp and demobilize personnel in late September 2023.

## 4. Water Use

#### 4.1 Location and Methods

The Eureka HAWS obtains its water for domestic purposes from the Eureka HAWS raw water reservoir pumphouse (**Figure 2**). The reservoir water is pumped from Station Creek using a Franklin Electric FLS-400 pump. Pumping occurs shortly after water starts flowing in Station Creek to maximize the amount of fresh runoff into the Eureka Water Reservoir. Station Creek eventually stops flowing until a second flow begins when the permafrost melts. At this time water is pumped again to ensure the Eureka Water Reservoir is full prior to freeze up. Water for construction purposes and dust suppression is withdrawn from Station Creek, Blacktop Creek, and West Remus Creek when necessary.

Location, quantities, and timeframe of withdrawal are presented in **Table 1**.

Table 1: Water Use Locations and Quantities at Eureka High Arctic Weather Station

	Quantities		Latitude			Longitude		
Source Description	(m <sup>3</sup> )	Timeframe	Deg (°)	Min (´)	Sec (″)	Deg (°)	Min (´)	Sec (″)
For Potable Water								
Eureka Water Reservoir (camp potable water)	543.78	2022	79	59	20	85	56	46
Station Creek Withdrawal Site	1545.00	June 6 – June 23						
(Fresh water pumped into the Eureka Water Reservoir)	2031.00	031.00 August 6- August 16		59	21	85	57	4
For Construction Use								
Station Creek Withdrawal Site	0.00		79	59	21	85	57	4
Blacktop Creek Withdrawal Site	376.38-	June - September-		58	12	85	38	59
West Remus Creek Withdrawal Site	1634.04	June - September	79	58	23	85	39	43

# 5. Waste Disposal

#### 5.1 Location and Methods

Blackwater and greywater from the Station at the Eureka HAWS is deposited in the Sewage Lagoon. Black water from the contractor camp is collected with Pacto toilets and is then incinerated on site; whereas, greywater is pumped or collected via vacuum truck and deposited in the Sewage Lagoon (**Figure 2**).

The contents of the Sewage Lagoon are decanted into the Slidre Fiord using a Monarch Pump Model TT30 Type E. The Sewage Lagoon is usually decanted once in June or July and prior to freeze-up in August. Prior to decanting, two sets of water samples are taken, and the timing of collection coincides with the produce delivery to ensure the samples arrive at a laboratory within 24 hours. Once the laboratory results are returned, they are assessed for conformity against the water licence and ECCC requests authorization from CIRNAC to decant. Following approval from CIRNAC, the Sewage Lagoon is decanted until empty or until a layer of ice is uncovered.

Contaminated soil continues to be stored temporarily while a plan to determine long term disposal and remediation options is developed. A lined Contaminated Soil Storage Cell, with a capacity of 6,000 m³, was constructed in 2020 to temporarily store contaminated soil discovered during the runway upgrade (**Figure 2**). In addition a high-density polyethylene (HDPE) lined storage area was constructed in 2022 for containment of hydrocarbon contaminated soils discovered within the new reservoir development area (**Figure 2**).

On September 6, 2022, Nuna Consulting, the contractor operating the West Remus Creek Quarry noticed the crusher's fuel tank had been overfilled, releasing approximately 60 litres of diesel fuel onto the ground contaminating an area of approximately 7.2 m<sup>2</sup>. The contaminated soil was collected and placed in a lined contaminated soil area near the runway. A spill report form of the incident is included in **Appendix B**.

All other waste on site was disposed of in appropriate Waste Management Areas.

Table 2 provides locations of waste storage and disposal sites at Eureka HAWS (Figures 2 and 3) which include:

- Hazardous Waste Transported off-site for disposal at a licenced hazardous waste disposal facility.
- Ash Waste Household waste is incinerated and then the ash is transferred to the Non-Hazardous Solid Waste Facility for storage.
- Fuel Tank Farm Waste fuel and oil products are stored in barrels and transported/disposed of as hazardous waste.
- Construction Contractor Fuel Storage
- Asbestos Waste Facility In previous years, asbestos was discovered and transported to the Asbestos Waste Facility for storage.
- Crushed Barrel Waste Empty barrels are crushed in a lined area and transported off-site for disposal.
- Non-Hazardous Solid Waste Facility Miscellaneous waste that cannot be incinerated is delivered to the Eureka HAWS Non-Hazardous Solid Waste Facility.
- Sewage and greywater- disposed of in sewage lagoon and decanted into fiord.

Table 2: Locations for Waste Storage & Disposal Sites at Eureka High Arctic Weather Station

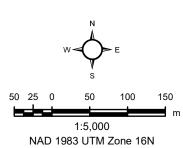
		Latitude	)	Longitude			
Source Description	Deg (°)	Min (´)	Sec (″)	Deg (°)	Min (´)	Sec (″)	
Eureka Airstrip	79	59	40	85	48	38	
New Drum Crushing Site	79	59	36	85	49	6	
Non-hazardous Waste Facility	79	59	29	85	46	14	
Temporary Contaminated Soil Storage Cell	79	59	30	85	46	21	
Hydrocarbon Contaminated Soil	79	59	47	85	50	40	
Airstrip Fuel Tanks	79	59	48	85	50	29	
Eureka Main Complex	79	59	20	85	56	23	
Fuel Tank Farm	79	59	24	85	56	10	
Construction Contractor Fuel Storage	79	59	38	85	49	27	
Incinerator	79	59	22	85	56	21	
Sewage Lagoon	79	59	23	85	50	11	



Slidre Flord

Legend

~~~ Watercourse



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Sources: NRCan Imagery: Esri World Imagery



Legend

✓ Watercourse

Temporary Access Road

--- Existing Access Road

NOTE:

The New Drum Crushing Site and Contaminated Soil Storage Cell are approximate locations

7537.5 0 75 150 225

1:10,000 NAD 1983 UTM Zone 16N

Sources: NRCan Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
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#### 5.2 Unauthorized Discharges of Water

There were no unauthorized discharges of water in 2022.

#### 5.3 Quantities

The following quantities of waste were observed in 2022:

- From July 2 to August 4, 2323 m<sup>3</sup> of sewage effluent was decanted (during ten events) into the fjord.
- Hydrocarbon contaminated soil a total of 478 m³ of contaminated soil was removed from the foundation area of the new raw water reservoir area and placed in a lined containment area near the Eureka runway.
- Every month, the site produces approximately 2030 lbs of household waste. It is subsequently incinerated, and the ash is sent to the Non-Hazardous Solid Waste Facility. The remainder of non-incinerable waste is also transported to the Non-Hazardous Solid Waste Facility.
- Every month, approximately 1.5 barrels of pure ash waste is produced from incinerating household waste and delivered to the Non-Hazardous Solid Waste Facility.
- On an average year, 4 barrels of waste, 1 barrel of waste oil filters, 2 barrels of incinerator ash, and 1 barrel of used batteries are generated. Quantities vary from year to year. The waste barrels are then stored in a lined area on the Fuel Tank Farm until they can be transported off-site for adequate disposal at a licenced hazardous waste facility. An estimated 10,500 litres (3 barrels) of liquid and solid waste (oil, fuel, detergent, antifreeze, fuel, ash, batteries, filters) was removed from the site in 2022 via sealift for disposal at an approved facility.

# 6. Water Quality Monitoring Results

The Long-Term Monitoring Program for the site did not include any sampling in 2022; however, routine water quality samples were collected in 2022 at the following locations:

- EUR 1: Raw water supply prior to treatment at Station Creek
- EUR 2: Runoff from the Solid Waste Disposal Facilities
- EUR 3: Sewage water sample collected at the Sewage Lagoon prior to decanting
- EUR 4: Runoff water sample collected at the Landfarm.
- EUR 6: Effluent discharge from the Temporary Contaminated Soil Storage

In 2022, water quality samples were not taken in quarry development areas (EUR-5) or the greywater exfiltration trench (EUR-9) due to the absence of runoff or discharge at sampling locations. Further, no sampling was conducted at West Remus Creek (EUR-7) and Blacktop Creek (EUR-8) as these locations provide water for dust suppression purposes only.

There were no seeps observed at West Remus Creek Quarry or the Contaminated Soil Storage Cell during the 2022 construction activities. Ongoing melt water from within the watershed was present within the quarry and natural drainage paths at various times throughout the season. Upon removal of thawed quarry materials, thawing of permafrost at the base of the active layer was observed throughout West Remus Creek Quarry. Further thawing allowed melt water to naturally subside and soak in. Seeps are not expected to occur at the Contaminated Soil Storage Cell since construction of the liner was successful. If seeps are observed in the future, water samples will be taken and reported in the annual report.

Water quality results for the Sewage Lagoon (EUR-3) in June and August were compared to the maximum concentration of parameters allowed in the Type 'B' Water Licence 8BC-EUR2131 and are presented in **Table 3** and **Table 4**, respectively. **Appendix C** contains the laboratory data. Total Suspended Solids were found to be above the water quality guidelines in August and analysis for biochemical oxygen demand and fecal coliforms was not possible as the hold time had been exceeded. The purpose of the new wastewater treatment plant is to resolve issues with the current lagoon exceeding the Water Licence parameters.

Table 3: Sewage Lagoon (EUR-3) Water Quality Parameters and Results June 2022

| Parameter                        | Units         | EUR-3            | Maximum Concentration Guideline |  |
|----------------------------------|---------------|------------------|---------------------------------|--|
| <b>Biochemical Oxygen Demand</b> | mg/L          | 30               | 100                             |  |
| Total Suspended Solids           | mg/L          | 58               | 120                             |  |
| Fecal Coliforms                  | CFU/100 mL    | Bdl*             | 1 x 10 <sup>6</sup>             |  |
| pH                               | pH units      | 7.36             | 6.0-9.0                         |  |
| Oil and Grease                   | Visible sheen | No Visible Sheen | No Visible Sheen                |  |

<sup>\*</sup>Below the detection limit

Table 4: Sewage Lagoon (EUR-3) Water Quality Parameters and Results August 2022

| Parameter                 | Units      | EUR-3 | Maximum Concentration Guideline |
|---------------------------|------------|-------|---------------------------------|
| Biochemical Oxygen Demand | mg/L       | Anp*  | 100                             |
| Total Suspended Solids    | mg/L       | 230   | 120                             |
| Fecal Coliforms           | CFU/100 mL | Anp*  | 1 x 10 <sup>6</sup>             |
| pH                        | pH units   | 8.26  | 6.0-9.0                         |

| Oil and Grease         Visible sheen         No Visible Sheen         No Visible Sheen | en |  |
|----------------------------------------------------------------------------------------|----|--|
|----------------------------------------------------------------------------------------|----|--|

<sup>\*</sup>Analysis not possible. Samples were received past the hold time.

Domestic water sampling was conducted in August and November and included sample collection of raw water in the freshwater lagoon, chlorinated water in the Eureka Main Complex Tank, tap water and reverse osmosis drinking water. Results are provided in **Appendix C**.

# 7. Water License Inspection

In 2022, no formal inspector site visits occurred. The last inspector visit was conducted in July 2019 and a copy of the Inspection Report is provided in the 2020 NWB Annual Report.

Ongoing work site inspections throughout the work season include inspections of all fuel tanks for leakage/damage. Areas of concern noted during these daily inspections are documented through the reporting system as either a Spill or Equipment Damage event.

# 8. Revisions to Applicable Management Plans

No revisions to applicable management plans or new wildlife mitigation measures were implemented in 2022.

# 9. Progressive Reclamation Work Undertaken in 2022

Progressive reclamation has begun in the West Remus quarry. The quarry was virtually exhausted at the end of the 2022 season. Reclamation of the depleted areas has been started, however the crushing plant remains set up at the last operating location. Reclamation of this area will be completed after the crusher is moved at the beginning of the 2023 season. Reclamation activities include shaping and sloping of the disturbed areas to create positive drainage and natural looking surface contours, similar to the appearance prior to disturbance. The natural drainage path through the quarry area will be maintained/restored at completion of the project. Reclamation activity will continue in the West Remus Creek area throughout the 2023 season.

# 10. Closure

Should the Nunavut Water Board have any questions or concerns regarding this document, please contact the undersigned.

Sincerely,

**Environment and Climate Change Canada** 

Jean-Philippe Cloutier-Dussault
Property Manager, Assets, Real Property and Security
Directorate
Environment and Climate Change Canada /
Government of Canada
jean-philippe.cloutier-dussault@ec.gc.ca / Tel.: 514-641-8753

# 11. References

#### Arcadis Canada Inc. (Arcadis), 2018:

Environmental Impact Assessment Addendum for the High Arctic Weather Station Project Improvements for: Construction of New Road, Construction of Water Crossing over Black Top Creek, and Development of New Quarry Site. March 2018. Prepared for Public Services and Procurement Canada.

#### CCME (Canadian Council for Ministers of the Environment), 2001:

Canadian Water Quality Guidelines for the Protections of Aquatic Life. CCME Water Quality Index 1.0 Technical Report. 13pp.

#### Health Canada, 2020:

Guidelines for Canadian Drinking Water Quality—Summary Table. Water and Air Quality Bureau, Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario.

#### Nunavut Water Board (NWB), 2021:

NWB Amended Renewal Water Licence No: 8BC-EUR2131

# Appendix A

**Standard NWB Annual Reporting Form** 

| NWB Annual Repo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ort                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Year being re                                                                                                                    | eported:                                                                                                           | Select <b>▼</b>                                                                                                   | 2022                                                                                 |
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| the lother HAV The for the lother | Project is apper facilities at VS main site a Eureka HAWS he Department Environmer Canadian Net | s and maintenance proximately 2.23 he the HAWS. The End is the primary S is an operational Defent Atmospheric Receivers for the Detection of Section 1 or 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | nectares. There<br>ureka runway is<br>way by which t<br>Il weather moni<br>fence (DND), th<br>esearch Lab. Ad<br>ection of Atmos | are presently<br>located 1.5<br>the HAWS is a<br>toring facility<br>e Polar Cont<br>ditional sites<br>pheric Chang | y 15 primary bui kilometres nort accessed year-rey as well as a huinental Shelf Proat Eureka are og including the | ildings and heast of the ound. b of activity oject and the operated by PEARL and the |
| Licence Requirem                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ents: the lic                                                                                   | ensee must prov                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ride the followi                                                                                                                 | ng informati                                                                                                       | on in accodan                                                                                                     | ce with                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Part B                                                                                          | Item 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                  |                                                                                                                    |                                                                                                                   |                                                                                      |
| A summary report<br>obtaining water; s<br>management.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                 | The state of the s |                                                                                                                                  |                                                                                                                    |                                                                                                                   | to: methods of nd hazardous waste                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | er Source(s):                                                                                   | Station Creek                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u> </u>                                                                                                                         |                                                                                                                    |                                                                                                                   |                                                                                      |
| Wate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | er Quantity:                                                                                    | 10000<br>3576                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Actual Q Quantity                                                                                                                | uantity Used<br>Allowable Dr                                                                                       | omestic (cu.m) Domestic (cu.m illing (cu.m) Orilling (cu.m)                                                       | 1)                                                                                   |
| Wast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | te Manageme  Solid Waste  Sewage  Drill Waste                                                   | ent and/or Disposa<br>Disposal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | al                                                                                                                               |                                                                                                                    |                                                                                                                   |                                                                                      |

Greywater

|               | ✓ Hazardous                                                                                  |  |
|---------------|----------------------------------------------------------------------------------------------|--|
|               | Other:                                                                                       |  |
|               | Additional Details:                                                                          |  |
|               | Please see attached report.                                                                  |  |
|               | '                                                                                            |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
| A list of una | uthorized discharges and a summary of follow-up actions taken.                               |  |
|               | Spill No.: (as reported to the Spill Hot-line)                                               |  |
|               | Date of Spill: September 6, 2022                                                             |  |
|               | Date of Notification to an Inspector: September 8, 2022                                      |  |
|               | Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc) |  |
|               | See appendix B of report                                                                     |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
|               | Spill No.: (as reported to the Spill Hot-line)                                               |  |
|               | Date of Spill:                                                                               |  |
|               | Date of Notification to an Inspector:                                                        |  |
|               | Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc) |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
|               | Spill No.: (as reported to the Spill Hot-line)                                               |  |
|               | Date of Spill:                                                                               |  |
|               | Date of Notification to an Inspector:                                                        |  |
| Г             | Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc) |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
| L             |                                                                                              |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
| Revisions to  | the Spill Contingency Plan                                                                   |  |
|               | SCP submitted and approved - no revision required or proposed   ▼                            |  |
|               | Additional Details:                                                                          |  |
|               | Additional Details.                                                                          |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
|               |                                                                                              |  |
| Revisions to  | the Abandonment and Restoration Plan                                                         |  |

2/4

|          | AR plan submitted and approved - no revision required or proposed                                                                                    |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | Additional Details:                                                                                                                                  |
| Progress | sive Reclamation Work Undertaken                                                                                                                     |
| 109100   | Additional Details (i.e., work completed and future works proposed)                                                                                  |
|          | See Section 9 of report                                                                                                                              |
| Results  | of the Monitoring Program including:                                                                                                                 |
|          | The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each                                                             |
|          | Details attached ▼                                                                                                                                   |
|          | Additional Details:                                                                                                                                  |
|          | Please see attached report.                                                                                                                          |
|          | The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each  □ Details attached  Additional Details:                    |
|          | Please see attached report.                                                                                                                          |
|          | Results of any additional sampling and/or analysis that was requested by an Inspector  No additional sampling requested by an Inspector or the Board |
|          |                                                                                                                                                      |
|          | Additional Details: (date of request, analysis of results, data attached, etc)                                                                       |
| ny othe  | er details on water use or waste disposal requested by the Board by November 1 of the year being                                                     |
| _        | No additional sampling requested by an Inspector or the Board                                                                                        |
|          | Additional Details: (Attached or provided below)                                                                                                     |
|          |                                                                                                                                                      |
| Any resp | ponses or follow-up actions on inspection/compliance reports                                                                                         |
|          | No inspection report issued by INAC                                                                                                                  |

|                                                  | •             | •           | ·                                         |   |
|--------------------------------------------------|---------------|-------------|-------------------------------------------|---|
|                                                  | Additional De | etails: (Da | tes of Report, Follow-up by the Licensee) | _ |
|                                                  |               |             |                                           |   |
|                                                  |               |             |                                           |   |
| Anv additiona                                    | l comments    | or infor    | mation for the Board to consider          |   |
|                                                  |               |             |                                           |   |
|                                                  |               |             |                                           |   |
|                                                  |               |             |                                           |   |
|                                                  |               |             |                                           |   |
|                                                  |               |             |                                           |   |
|                                                  |               |             |                                           |   |
| Date Submitte<br>Submitted/Pre<br>Contact Infori | epared by:    | Fax:        | iguet<br>2363346120                       |   |
|                                                  |               | email:      | Tyler.huguet@aecom.com                    |   |

# Appendix B

**Spill Reports** 

# NT-NU SPILL REPORT

#### OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS









NT-NU 24-HOUR SPILL REPORT LINE Tel: (867) 920-8130 • Email: spills@gov.nt.ca

REPORT LINE USE ONLY **Report Number:** Report Date: Report Time: ☐ Original Spill Report MM OR Occurrence Date: Occurrence Time: В Update # \_\_\_\_\_ to the Original Spill Report Land Use Permit Number (if applicable): Water Licence Number (if applicable): C Geographic Place Name or Distance and Direction from the Named Location: Region: D □ NT □ Nunavut □ Adjacent Jurisdiction or Ocean Latitude: Longitude: Ε Seconds \_ Degrees Minutes Seconds \_ Degrees Minutes Responsible Party or Vessel Name: Responsible Party Address or Office Location: F Any Contractor Involved: Contractor Address or Office Location: G Product Spilled: Potential Spill Quantity in Litres, Kilograms or Cubic Metres: U.N. Number: Н Spill Source: Spill Cause: Area of Contamination in Square Metres: Factors Affecting Spill or Recovery: Describe Any Assistance Required: Hazards to Persons, Property or Environment: J Additional Information, Comments, Actions Proposed or Taken to Contain, Recover or Dispose of Spilled Product and Contaminated Materials: K Reported to Spill Line by: Position: Employer: Location Calling From: Telephone: L Alternate Telephone: Any Alternate Contact: Position: Employer: Alternate Contact Location: M REPORT LINE USE ONLY Received at Spill Line by: Employer: Location Called: Report Line Number: Position: Ν Lead Agency: ☐ EC ☐ CCG/TCMSS ☐ GNWT ☐ GN ☐ ILA File Status: Open ☐ AANDC ☐ NEB ☐ Other: ☐ Major ☐ Unknown ☐ Closed Remarks: **Contact Name: Contact Time:** Agency: Lead Agency: First Support Agency: Second Support Agency: Third Support Agency:

# Appendix C

**Laboratory Data** 



4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9 Tel: (867)-767-9235 Fax: (867)-920-8740

#### - FINAL REPORT -

Prepared For: Environment Canada

Address: 123 Main Street

Suite 150 Winnipeg,MB R3C 4W2

Attn: Don Lavallee Facsimile:

Final report has been reviewed and approved by:

Glen Hudy

**Quality Assurance Officer** 

#### **NOTES:**

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) to ISO/IEC 17025 as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
  - o Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
  - o Environment Canada
  - o USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- > Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

ReportDate: June-30-22 Page 1 of 14



4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9 Tel: (867)-767-9235 Fax: (867)-920-8740

#### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EUR-3 Taiga Sample ID: 001

Client Project: Sewage Lagoon Sampling

Sample Type: Water Received Date: 17-Jun-22 Sampling Date: 16-Jun-22 Sampling Time: 16:05

Location:

Report Status: Final

| Test Parameter                | Result | Detection<br>Limit | Units    | Analysis<br>Date | Analytical<br>Method * | Qualifer |
|-------------------------------|--------|--------------------|----------|------------------|------------------------|----------|
| Inorganics - Nutrients        |        |                    |          |                  |                        |          |
| Ammonia as Nitrogen           | 10.5   | 0.005              | mg/L     | 22-Jun-22        | TEL068                 |          |
| Biochemical Oxygen Demand     | 30     | 2                  | mg/L     | 17-Jun-22        | TEL019                 |          |
| Organic Carbon, Total         | 35.7   | 0.5                | mg/L     | 21-Jun-22        | TEL033                 |          |
| Phosphorous, Total            | 1.75   | 0.002              | mg/L     | 23-Jun-22        | TEL069                 |          |
| Inorganics - Physicals        |        |                    |          |                  |                        |          |
| Alkalinity, Total (as CaCO3)  | 139    | 0.4                | mg/L     | 17-Jun-22        | TEL060                 |          |
| Conductivity, Specific (@25C) | 1950   | 0.4                | μS/cm    | 17-Jun-22        | TEL059                 |          |
| pН                            | 7.36   |                    | pH units | 17-Jun-22        | TEL058                 |          |
| Solids, Total Suspended       | 58     | 3                  | mg/L     | 22-Jun-22        | TEL008                 |          |
| Major Ions                    |        |                    |          |                  |                        |          |
| Calcium                       | 74.1   | 0.1                | mg/L     | 19-Jun-22        | TEL055                 |          |
| Chloride                      | 366    | 0.7                | mg/L     | 18-Jun-22        | TEL055                 |          |
| Hardness                      | 341    | 0.7                | mg/L     | 19-Jun-22        | TEL055                 |          |
| Magnesium                     | 37.8   | 0.1                | mg/L     | 19-Jun-22        | TEL055                 |          |
| Nitrate as Nitrogen           | < 0.01 | 0.01               | mg/L     | 18-Jun-22        | TEL055                 |          |

**ReportDate:** June-30-22



4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9 Tel: (867)-767-9235 Fax: (867)-920-8740

#### - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EUR-3     | Taiga Sample ID: 001 |        |           |           |              |  |  |
|-----------------------------|----------------------|--------|-----------|-----------|--------------|--|--|
| Nitrate+Nitrite as Nitrogen | < 0.01               | 0.01   | mg/L      | 18-Jun-22 | TEL055       |  |  |
| Potassium                   | 13.9                 | 0.1    | mg/L      | 19-Jun-22 | TEL055       |  |  |
| Sodium                      | 257                  | 0.1    | mg/L      | 19-Jun-22 | TEL055       |  |  |
| Sulphate                    | 269                  | 1      | mg/L      | 18-Jun-22 | TEL055       |  |  |
| Microbiology                |                      |        |           |           |              |  |  |
| Coliforms, Fecal            | < 100000             | 100000 | CFU/100mL | 17-Jun-22 | TEL017       |  |  |
| <u>Organics</u>             |                      |        |           |           |              |  |  |
| Oil and Grease, visible     | Non-visible          |        |           | 17-Jun-22 | Visual Exam  |  |  |
| Subcontracted Organics      |                      |        |           |           |              |  |  |
| Phenols, Total              | 0.0032               | 0.001  | mg/L      | 21-Jun-22 | AB ENV.06537 |  |  |
| Trace Metals, Total         |                      |        |           |           |              |  |  |
| Aluminum                    | 441                  | 5      | μg/L      | 22-Jun-22 | TEL035       |  |  |
| Antimony                    | 0.3                  | 0.1    | μg/L      | 22-Jun-22 | TEL035       |  |  |
| Arsenic                     | 0.8                  | 0.2    | μg/L      | 22-Jun-22 | TEL035       |  |  |
| Barium                      | 11.6                 | 0.1    | μg/L      | 22-Jun-22 | TEL035       |  |  |
| Beryllium                   | < 0.1                | 0.1    | μg/L      | 22-Jun-22 | TEL035       |  |  |
| Cadmium                     | < 0.1                | 0.1    | μg/L      | 22-Jun-22 | TEL035       |  |  |
| Cesium                      | < 0.1                | 0.1    | μg/L      | 22-Jun-22 | TEL035       |  |  |
| Chromium                    | 1.0                  | 0.1    | μg/L      | 22-Jun-22 | TEL035       |  |  |
| Cobalt                      | 0.7                  | 0.1    | μg/L      | 22-Jun-22 | TEL035       |  |  |
| Copper                      | 27.9                 | 0.2    | μg/L      | 22-Jun-22 | TEL035       |  |  |
| Iron                        | 991                  | 5      | μg/L      | 22-Jun-22 | TEL035       |  |  |
| Lead                        | 0.6                  | 0.1    | μg/L      | 22-Jun-22 | TEL035       |  |  |
| Lithium                     | 15.4                 | 0.2    | μg/L      | 22-Jun-22 | TEL035       |  |  |
| Manganese                   | 54.5                 | 0.1    | μg/L      | 22-Jun-22 | TEL035       |  |  |
|                             |                      |        |           |           |              |  |  |

ReportDate: June-30-22



4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9 Tel: (867)-767-9235 Fax: (867)-920-8740

#### - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EUR-3 | Taiga Sample ID: 001 |     |      |           |        |
|-------------------------|----------------------|-----|------|-----------|--------|
| Molybdenum              | 0.5                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Nickel                  | 3.8                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Rubidium                | 5.8                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Selenium                | 0.5                  | 0.5 | μg/L | 22-Jun-22 | TEL035 |
| Silver                  | < 0.1                | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Strontium               | 282                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Thallium                | < 0.1                | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Titanium                | 11.2                 | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Uranium                 | 0.5                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Vanadium                | 1.3                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Zinc                    | 28.4                 | 5   | μg/L | 22-Jun-22 | TEL035 |

**ReportDate:** June-30-22 **Print Date:** *June-30-22* 



4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9 Tel: (867)-767-9235 Fax: (867)-920-8740

#### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EUR-2 Taiga Sample ID: 002

Client Project: Sewage Lagoon Sampling

Sample Type: Water Received Date: 17-Jun-22 Sampling Date: 16-Jun-22 Sampling Time: 13:15

Location:

Report Status: Final

| Test Parameter                | Result | Detection<br>Limit | Units    | Analysis<br>Date | Analytical<br>Method * | Qualifer |
|-------------------------------|--------|--------------------|----------|------------------|------------------------|----------|
| Inorganics - Nutrients        |        |                    |          |                  |                        |          |
| Ammonia as Nitrogen           | 0.122  | 0.005              | mg/L     | 22-Jun-22        | TEL068                 |          |
| Biochemical Oxygen Demand     | 17     | 2                  | mg/L     | 17-Jun-22        | TEL019                 |          |
| Organic Carbon, Total         | 1.6    | 0.5                | mg/L     | 21-Jun-22        | TEL033                 |          |
| Phosphorous, Total            | 3.30   | 0.002              | mg/L     | 23-Jun-22        | TEL069                 |          |
| Inorganics - Physicals        |        |                    |          |                  |                        |          |
| Alkalinity, Total (as CaCO3)  | 61.7   | 0.4                | mg/L     | 17-Jun-22        | TEL060                 |          |
| Conductivity, Specific (@25C) | 753    | 0.4                | μS/cm    | 17-Jun-22        | TEL059                 |          |
| рН                            | 8.25   |                    | pH units | 17-Jun-22        | TEL058                 |          |
| Solids, Total Suspended       |        | 3                  | mg/L     | 22-Jun-22        | TEL008                 | 235      |
| Major Ions                    |        |                    |          |                  |                        |          |
| Calcium                       | 28.5   | 0.1                | mg/L     | 19-Jun-22        | TEL055                 |          |
| Chloride                      | 127    | 0.7                | mg/L     | 18-Jun-22        | TEL055                 |          |
| Hardness                      | 126    | 0.7                | mg/L     | 19-Jun-22        | TEL055                 |          |
| Magnesium                     | 13.4   | 0.1                | mg/L     | 19-Jun-22        | TEL055                 |          |
| Nitrate as Nitrogen           | 4.14   | 0.01               | mg/L     | 18-Jun-22        | TEL055                 |          |
| Nitrate+Nitrite as Nitrogen   | 4.14   | 0.01               | mg/L     | 18-Jun-22        | TEL055                 |          |

**ReportDate:** June-30-22



4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9 Tel: (867)-767-9235 Fax: (867)-920-8740

#### - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EUR-2 | Taiga Sample ID: 002 |       |           |           |              |  |
|-------------------------|----------------------|-------|-----------|-----------|--------------|--|
| Potassium               | 4.8                  | 0.1   | mg/L      | 19-Jun-22 | TEL055       |  |
| Sodium                  | 99.9                 | 0.1   | mg/L      | 19-Jun-22 | TEL055       |  |
| Sulphate                | 90                   | 1     | mg/L      | 18-Jun-22 | TEL055       |  |
| <u>Microbiology</u>     |                      |       |           |           |              |  |
| Coliforms, Fecal        | < 100                | 100   | CFU/100mL | 17-Jun-22 | TEL017       |  |
| <u>Organics</u>         |                      |       |           |           |              |  |
| Oil and Grease, visible | Non-visible          |       |           | 17-Jun-22 | Visual Exam  |  |
| Subcontracted Organics  |                      |       |           |           |              |  |
| Phenols, Total          | < 0.0010             | 0.001 | mg/L      | 21-Jun-22 | AB ENV.06537 |  |
| Trace Metals, Total     |                      |       |           |           |              |  |
| Aluminum                | 92200                | 5     | μg/L      | 22-Jun-22 | TEL035       |  |
| Antimony                | 0.2                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |
| Arsenic                 | 13.5                 | 0.2   | μg/L      | 22-Jun-22 | TEL035       |  |
| Barium                  | 1240                 | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |
| Beryllium               | 17.9                 | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |
| Cadmium                 | 2.0                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |
| Cesium                  | 4.8                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |
| Chromium                | 197                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |
| Cobalt                  | 96.8                 | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |
| Copper                  | 328                  | 0.2   | μg/L      | 22-Jun-22 | TEL035       |  |
| Iron                    | 339000               | 5     | μg/L      | 22-Jun-22 | TEL035       |  |
| Lead                    | 194                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |
| Lithium                 | 321                  | 0.2   | μg/L      | 22-Jun-22 | TEL035       |  |
| Manganese               | 2490                 | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |
| Molybdenum              | 0.4                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |
|                         |                      |       |           |           |              |  |

ReportDate: June-30-22



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#### - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EUR-2 | Taiga Sample ID: 002 |     |      |           |        |
|-------------------------|----------------------|-----|------|-----------|--------|
| Nickel                  | 234                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Rubidium                | 128                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Selenium                | 6.1                  | 0.5 | μg/L | 22-Jun-22 | TEL035 |
| Silver                  | 1.3                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Strontium               | 1050                 | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Thallium                | 1.1                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Titanium                | 115                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Uranium                 | 14.8                 | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Vanadium                | 265                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |
| Zinc                    | 819                  | 5   | μg/L | 22-Jun-22 | TEL035 |

**ReportDate:** June-30-22 **Print Date:** *June-30-22* 



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#### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EUR-4 Taiga Sample ID: 003

Client Project: Sewage Lagoon Sampling

Sample Type: Water Received Date: 17-Jun-22 Sampling Date: 16-Jun-22 Sampling Time: 13:45

Location:

Report Status: Final

| Test Parameter                | Result  | Detection<br>Limit | Units    | Analysis<br>Date | Analytical<br>Method * | Qualifer |
|-------------------------------|---------|--------------------|----------|------------------|------------------------|----------|
| Inorganics - Nutrients        |         |                    |          |                  |                        |          |
| Ammonia as Nitrogen           | < 0.005 | 0.005              | mg/L     | 22-Jun-22        | TEL068                 |          |
| Biochemical Oxygen Demand     | < 2     | 2                  | mg/L     | 17-Jun-22        | TEL019                 |          |
| Organic Carbon, Total         | 4.8     | 0.5                | mg/L     | 21-Jun-22        | TEL033                 |          |
| Phosphorous, Total            | 0.162   | 0.002              | mg/L     | 23-Jun-22        | TEL069                 |          |
| <u>Inorganics - Physicals</u> |         |                    |          |                  |                        |          |
| Alkalinity, Total (as CaCO3)  | 50.3    | 0.4                | mg/L     | 17-Jun-22        | TEL060                 |          |
| Conductivity, Specific (@25C) | 5070    | 0.4                | μS/cm    | 17-Jun-22        | TEL059                 |          |
| pH                            | 7.76    |                    | pH units | 17-Jun-22        | TEL058                 |          |
| Solids, Total Suspended       | 272     | 3                  | mg/L     | 22-Jun-22        | TEL008                 |          |
| Major Ions                    |         |                    |          |                  |                        |          |
| Calcium                       | 343     | 0.1                | mg/L     | 19-Jun-22        | TEL055                 |          |
| Chloride                      | 1050    | 0.7                | mg/L     | 18-Jun-22        | TEL055                 |          |
| Hardness                      | 1770    | 0.7                | mg/L     | 19-Jun-22        | TEL055                 |          |
| Magnesium                     | 222     | 0.1                | mg/L     | 19-Jun-22        | TEL055                 |          |
| Nitrate as Nitrogen           | < 0.01  | 0.01               | mg/L     | 18-Jun-22        | TEL055                 |          |
| Nitrate+Nitrite as Nitrogen   | < 0.01  | 0.01               | mg/L     | 18-Jun-22        | TEL055                 |          |

**ReportDate:** June-30-22



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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EUR-4 | Taiga Sample ID: 003 |       |           |           |              |  |  |  |
|-------------------------|----------------------|-------|-----------|-----------|--------------|--|--|--|
| Potassium               | 17.2                 | 0.1   | mg/L      | 19-Jun-22 | TEL055       |  |  |  |
| Sodium                  | 552                  | 0.1   | mg/L      | 19-Jun-22 | TEL055       |  |  |  |
| Sulphate                | 1380                 | 1     | mg/L      | 18-Jun-22 | TEL055       |  |  |  |
| <u>Microbiology</u>     |                      |       |           |           |              |  |  |  |
| Coliforms, Fecal        | < 1                  | 1     | CFU/100mL | 17-Jun-22 | TEL017       |  |  |  |
| <u>Organics</u>         |                      |       |           |           |              |  |  |  |
| Oil and Grease, visible | Non-visible          |       |           | 17-Jun-22 | Visual Exam  |  |  |  |
| Subcontracted Organics  |                      |       |           |           |              |  |  |  |
| Phenols, Total          | < 0.0010             | 0.001 | mg/L      | 21-Jun-22 | AB ENV.06537 |  |  |  |
| Trace Metals, Total     |                      |       |           |           |              |  |  |  |
| Aluminum                | 512                  | 5     | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Antimony                | 0.2                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Arsenic                 | 0.9                  | 0.2   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Barium                  | 20.7                 | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Beryllium               | < 0.1                | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Cadmium                 | < 0.1                | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Cesium                  | 0.1                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Chromium                | 1.0                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Cobalt                  | 0.8                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Copper                  | 2.3                  | 0.2   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Iron                    | 929                  | 5     | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Lead                    | 0.6                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Lithium                 | 36.7                 | 0.2   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Manganese               | 62.7                 | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Molybdenum              | 0.8                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
|                         |                      |       |           |           |              |  |  |  |

ReportDate: June-30-22

Print Date: June-30-22



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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EUR-4 |     |     |     | Taiga | Sample ID | 2: 003 |
|-------------------------|-----|-----|-----|-------|-----------|--------|
| Nickel                  | 2.6 | 6   | 0.1 | μg/L  | 22-Jun-22 | TEL035 |
| Rubidium                | 2.6 | 6   | 0.1 | μg/L  | 22-Jun-22 | TEL035 |
| Selenium                | 0.0 | 3   | 0.5 | μg/L  | 22-Jun-22 | TEL035 |
| Silver                  | < 0 | 0.1 | 0.1 | μg/L  | 22-Jun-22 | TEL035 |
| Strontium               | 71  | 3   | 0.1 | μg/L  | 22-Jun-22 | TEL035 |
| Thallium                | < 0 | 0.1 | 0.1 | μg/L  | 22-Jun-22 | TEL035 |
| Titanium                | 16. | 3   | 0.1 | μg/L  | 22-Jun-22 | TEL035 |
| Uranium                 | 1.0 | )   | 0.1 | μg/L  | 22-Jun-22 | TEL035 |
| Vanadium                | 1.5 | 5   | 0.1 | μg/L  | 22-Jun-22 | TEL035 |
| Zinc                    | <   | 5.0 | 5   | μg/L  | 22-Jun-22 | TEL035 |

**ReportDate:** June-30-22 **Print Date:** *June-30-22* 



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### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EUR-6 Taiga Sample ID: 004

Client Project: Sewage Lagoon Sampling

Sample Type: Water Received Date: 17-Jun-22 Sampling Date: 16-Jun-22 Sampling Time: 13:30

Location:

Report Status: Final

| Test Parameter                | Result  | Detection<br>Limit | Units    | Analysis<br>Date | Analytical<br>Method * | Qualifer |
|-------------------------------|---------|--------------------|----------|------------------|------------------------|----------|
| Inorganics - Nutrients        |         |                    |          |                  |                        |          |
| Ammonia as Nitrogen           | < 0.005 | 0.005              | mg/L     | 22-Jun-22        | TEL068                 |          |
| Biochemical Oxygen Demand     | < 2     | 2                  | mg/L     | 17-Jun-22        | TEL019                 |          |
| Organic Carbon, Total         | 3.6     | 0.5                | mg/L     | 21-Jun-22        | TEL033                 |          |
| Phosphorous, Total            | 0.066   | 0.002              | mg/L     | 23-Jun-22        | TEL069                 |          |
| <b>Inorganics - Physicals</b> |         |                    |          |                  |                        |          |
| Alkalinity, Total (as CaCO3)  | 21.2    | 0.4                | mg/L     | 17-Jun-22        | TEL060                 |          |
| Conductivity, Specific (@25C) | 1960    | 0.4                | μS/cm    | 17-Jun-22        | TEL059                 |          |
| pH                            | 7.56    |                    | pH units | 17-Jun-22        | TEL058                 |          |
| Solids, Total Suspended       | 24      | 3                  | mg/L     | 22-Jun-22        | TEL008                 |          |
| Major Ions                    |         |                    |          |                  |                        |          |
| Calcium                       | 65.4    | 0.1                | mg/L     | 19-Jun-22        | TEL055                 |          |
| Chloride                      | 490     | 0.7                | mg/L     | 18-Jun-22        | TEL055                 |          |
| Hardness                      | 347     | 0.7                | mg/L     | 19-Jun-22        | TEL055                 |          |
| Magnesium                     | 44.7    | 0.1                | mg/L     | 19-Jun-22        | TEL055                 |          |
| Nitrate as Nitrogen           | 0.37    | 0.01               | mg/L     | 18-Jun-22        | TEL055                 |          |
| Nitrate+Nitrite as Nitrogen   | 0.37    | 0.01               | mg/L     | 18-Jun-22        | TEL055                 |          |

**ReportDate:** June-30-22

Print Date: June-30-22

Page 11 of 14



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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EUR-6 | Taiga Sample ID: 004 |       |           |           |              |  |  |  |
|-------------------------|----------------------|-------|-----------|-----------|--------------|--|--|--|
| Potassium               | 11.4                 | 0.1   | mg/L      | 19-Jun-22 | TEL055       |  |  |  |
| Sodium                  | 252                  | 0.1   | mg/L      | 19-Jun-22 | TEL055       |  |  |  |
| Sulphate                | 161                  | 1     | mg/L      | 18-Jun-22 | TEL055       |  |  |  |
| <u>Microbiology</u>     |                      |       |           |           |              |  |  |  |
| Coliforms, Fecal        | < 1                  | 1     | CFU/100mL | 17-Jun-22 | TEL017       |  |  |  |
| <u>Organics</u>         |                      |       |           |           |              |  |  |  |
| Oil and Grease, visible | Non-visible          |       |           | 17-Jun-22 | Visual Exam  |  |  |  |
| Subcontracted Organics  |                      |       |           |           |              |  |  |  |
| Phenols, Total          | < 0.0010             | 0.001 | mg/L      | 21-Jun-22 | AB ENV.06537 |  |  |  |
| Trace Metals, Total     |                      |       |           |           |              |  |  |  |
| Aluminum                | 1350                 | 5     | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Antimony                | < 0.1                | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Arsenic                 | 1.6                  | 0.2   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Barium                  | 26.7                 | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Beryllium               | 0.1                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Cadmium                 | < 0.1                | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Cesium                  | 0.3                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Chromium                | 2.6                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Cobalt                  | 1.4                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Copper                  | 3.3                  | 0.2   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Iron                    | 3730                 | 5     | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Lead                    | 1.5                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Lithium                 | 13.8                 | 0.2   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Manganese               | 62.7                 | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
| Molybdenum              | 0.5                  | 0.1   | μg/L      | 22-Jun-22 | TEL035       |  |  |  |
|                         |                      |       |           |           |              |  |  |  |

ReportDate: June-30-22 Page 12 of 14

Print Date: June-30-22



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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EUR-6 | Taiga Sample ID: 004 |     |      |           |        |  |  |
|-------------------------|----------------------|-----|------|-----------|--------|--|--|
| Nickel                  | 3.2                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |  |  |
| Rubidium                | 3.4                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |  |  |
| Selenium                | < 0.5                | 0.5 | μg/L | 22-Jun-22 | TEL035 |  |  |
| Silver                  | < 0.1                | 0.1 | μg/L | 22-Jun-22 | TEL035 |  |  |
| Strontium               | 344                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |  |  |
| Thallium                | < 0.1                | 0.1 | μg/L | 22-Jun-22 | TEL035 |  |  |
| Titanium                | 31.6                 | 0.1 | μg/L | 22-Jun-22 | TEL035 |  |  |
| Uranium                 | 1.0                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |  |  |
| Vanadium                | 5.2                  | 0.1 | μg/L | 22-Jun-22 | TEL035 |  |  |
| Zinc                    | 7.8                  | 5   | μg/L | 22-Jun-22 | TEL035 |  |  |

**ReportDate:** June-30-22 **Print Date:** *June-30-22* 



Taiga Batch No.: 221135

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#### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EUR-6 Taiga Sample ID: 004

### - DATA QUALIFERS -

Data Qualifier Descriptions:

Could not filter adequate sample size due to high levels of solids in sample.

\* Taiga analytical methods are based on the following standard analytical methods

SM - Standard Methods for the Examination of Water and Wastewater EPA - United States Environmental Protection Agency

ReportDate: June-30-22 Page 14 of 14

Print Date: June-30-22



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#### - FINAL REPORT -

Prepared For: Environment Canada

Address: 123 Main Street

Suite 150 Winnipeg,MB R3C 4W2

Attn: Don Lavallee Facsimile:

Final report has been reviewed and approved by:

Judy Mah

**Client Service Officer** 

#### NOTES:

- ➤ Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) to ISO/IEC 17025 as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
  - o Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
  - o Environment Canada
  - o USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- > Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

**ReportDate:** Monday, September 5, 2022



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### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EU-Bulk Taiga Sample ID: 001

Client Project: Domestic Water

**Sample Type:** Water Storage Tank - Powerhouse

**Received Date:** 19-Aug-22 **Sampling Date:** 11-Aug-22 **Sampling Time:** 14:40

Location: Eureka, Nunavut

Report Status: Final

| Test Parameter                | Result | Detection<br>Limit | Units     | Analysis<br>Date | Analytical<br>Method * | Qualifer |
|-------------------------------|--------|--------------------|-----------|------------------|------------------------|----------|
| Cations by ICP-MS             |        |                    |           |                  |                        |          |
| Calcium                       | 60.0   | 0.1                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Hardness                      | 266    | 0.7                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Magnesium                     | 28.4   | 0.1                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Sodium                        | 64.8   | 0.1                | mg/L      | 24-Aug-22        | TEL035                 |          |
| <b>Inorganics - Nutrients</b> |        |                    |           |                  |                        |          |
| Organic Carbon, Total         | 2.1    | 0.5                | mg/L      | 24-Aug-22        | TEL033                 |          |
| <b>Inorganics - Physicals</b> |        |                    |           |                  |                        |          |
| Alkalinity, Total (as CaCO3)  | 61.7   | 0.4                | mg/L      | 20-Aug-22        | TEL060                 |          |
| Conductivity, Specific (@25C) | 829    | 0.4                | μS/cm     | 20-Aug-22        | TEL059                 |          |
| pH                            | 8.08   |                    | pH units  | 20-Aug-22        | TEL058                 |          |
| Solids, Total Suspended       | 20     | 3                  | mg/L      | 22-Aug-22        | TEL008                 |          |
| Turbidity                     | 15.9   | 0.05               | NTU       | 19-Aug-22        | TEL006                 |          |
| Microbiology                  |        |                    |           |                  |                        |          |
| Coliforms, Total              |        | 1                  | MPN/100ml |                  | TEL053                 | 105      |
| Escherichia coli              |        | 1                  | MPN/100ml |                  | TEL053                 | 105      |

**ReportDate:** Monday, September 5, 2022



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## - CERTIFICATE OF ANALYSIS -

| Organics         Bromodichloromethane       24.1       1       ug/L       23-Aug-22       TEL074         Bromoform       20.5       1       ug/L       23-Aug-22       TEL074         Chloroform       12.8       1       ug/L       23-Aug-22       TEL074         Dibromochloromethane       42.7       1       ug/L       23-Aug-22       TEL074         Trihalomethanes, Total       100       1       ug/L       23-Aug-22       TEL074         Trace Metals, Total       393       0.6       μg/L       31-Aug-22       TEL035         Antimony       < 0.1       0.1       μg/L       31-Aug-22       TEL035 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bromoform         20.5         1         ug/L         23-Aug-22         TEL074           Chloroform         12.8         1         ug/L         23-Aug-22         TEL074           Dibromochloromethane         42.7         1         ug/L         23-Aug-22         TEL074           Trihalomethanes, Total         100         1         ug/L         23-Aug-22         TEL074           Trace Metals, Total         393         0.6         μg/L         31-Aug-22         TEL035           Antimony         < 0.1                                                                                              |
| Chloroform       12.8       1       ug/L       23-Aug-22       TEL074         Dibromochloromethane       42.7       1       ug/L       23-Aug-22       TEL074         Trihalomethanes, Total       100       1       ug/L       23-Aug-22       TEL074         Trace Metals, Total         Aluminum       393       0.6       μg/L       31-Aug-22       TEL035         Antimony       < 0.1                                                                                                                                                                                                                        |
| Dibromochloromethane       42.7       1       ug/L       23-Aug-22       TEL074         Trihalomethanes, Total       100       1       ug/L       23-Aug-22       TEL074         Trace Metals, Total       393       0.6 $\mu$ g/L       31-Aug-22       TEL035         Antimony       < 0.1       0.1 $\mu$ g/L       31-Aug-22       TEL035                                                                                                                                                                                                                                                                       |
| Trihalomethanes, Total       100       1       ug/L       23-Aug-22       TEL074         Trace Metals, Total       393       0.6       μg/L       31-Aug-22       TEL035         Antimony       < 0.1       0.1       μg/L       31-Aug-22       TEL035                                                                                                                                                                                                                                                                                                                                                             |
| Trace Metals, Total         Aluminum       393       0.6       μg/L       31-Aug-22       TEL035         Antimony       < 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Aluminum 393 0.6 $\mu g/L$ 31-Aug-22 TEL035 Antimony < 0.1 0.1 $\mu g/L$ 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Antimony $< 0.1$ $0.1$ $\mu g/L$ 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| . 0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Arsenic 0.4 0.2 $\mu$ g/L 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Barium 6.7 0.1 $\mu$ g/L 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Beryllium $< 0.1$ 0.1 $\mu g/L$ 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Cadmium $< 0.0$ 0.04 $\mu g/L$ 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Cesium $< 0.1$ 0.1 $\mu g/L$ 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Chromium 0.7 0.1 $\mu g/L$ 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Cobalt 0.5 0.1 $\mu g/L$ 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Copper 7.6 0.2 μg/L 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Iron 887 5 μg/L 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Lead 0.4 0.1 $\mu g/L$ 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Lithium 14.0 0.2 $\mu g/L$ 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Manganese 19.9 0.1 $\mu$ g/L 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Molybdenum 0.2 0.1 $\mu g/L$ 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Nickel 3.2 0.1 $\mu g/L$ 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Rubidium 1.7 0.1 μg/L 31-Aug-22 ΤΕL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Selenium 0.5 0.3 $\mu g/L$ 31-Aug-22 TEL035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**ReportDate:** Monday, September 5, 2022





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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: | EU-Bulk | Taiga Sample ID: 001 |      |           |        |  |  |  |
|-------------------|---------|----------------------|------|-----------|--------|--|--|--|
| Silver            | < 0.1   | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |  |
| Strontium         | 235     | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |  |
| Thallium          | < 0.1   | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |  |
| Titanium          | 4.2     | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |  |
| Uranium           | 0.4     | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |  |
| Vanadium          | 1.0     | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |  |
| Zinc              | 8.6     | 0.4                  | μg/L | 31-Aug-22 | TEL035 |  |  |  |





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### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EU-RO Taiga Sample ID: 002

Client Project: Domestic Water Sample Type: Reverse Osmosis Received Date: 19-Aug-22 Sampling Date: 11-Aug-22 Sampling Time: 17:40

Location: Eureka, Nunavut

Report Status: Final

| Test Parameter                | Result | Detection<br>Limit | Units     | Analysis<br>Date | Analytical<br>Method * | Qualifer |
|-------------------------------|--------|--------------------|-----------|------------------|------------------------|----------|
| Cations by ICP-MS             |        |                    |           |                  |                        |          |
| Calcium                       | < 0.1  | 0.1                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Hardness                      | < 0.7  | 0.7                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Magnesium                     | < 0.1  | 0.1                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Sodium                        | 5.2    | 0.1                | mg/L      | 24-Aug-22        | TEL035                 |          |
| <b>Inorganics - Nutrients</b> |        |                    |           |                  |                        |          |
| Organic Carbon, Total         | < 0.5  | 0.5                | mg/L      | 24-Aug-22        | TEL033                 |          |
| Inorganics - Physicals        |        |                    |           |                  |                        |          |
| Alkalinity, Total (as CaCO3)  | 3.7    | 0.4                | mg/L      | 20-Aug-22        | TEL060                 |          |
| Conductivity, Specific (@25C) | 25.5   | 0.4                | μS/cm     | 20-Aug-22        | TEL059                 |          |
| pН                            | 7.12   |                    | pH units  | 20-Aug-22        | TEL058                 |          |
| Solids, Total Suspended       | < 3    | 3                  | mg/L      | 22-Aug-22        | TEL008                 |          |
| Turbidity                     | 0.09   | 0.05               | NTU       | 19-Aug-22        | TEL006                 |          |
| Microbiology                  |        |                    |           |                  |                        |          |
| Coliforms, Total              |        | 1                  | MPN/100ml |                  | TEL053                 | 105      |
| Escherichia coli              |        | 1                  | MPN/100ml |                  | TEL053                 | 105      |
| <u>Organics</u>               |        |                    |           |                  |                        |          |

**ReportDate:** Monday, September 5, 2022



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# - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EU-RO |        |      | Taig | a Sample ID | : 002  |     |  |
|-------------------------|--------|------|------|-------------|--------|-----|--|
| Bromodichloromethane    | 1.1    | 1    | ug/L | 23-Aug-22   | TEL074 | 110 |  |
| Bromoform               | < 1.0  | 1    | ug/L | 23-Aug-22   | TEL074 | 110 |  |
| Chloroform              | 5.1    | 1    | ug/L | 23-Aug-22   | TEL074 | 110 |  |
| Dibromochloromethane    | < 1.0  | 1    | ug/L | 23-Aug-22   | TEL074 | 110 |  |
| Trihalomethanes, Total  | 6.6    | 1    | ug/L | 23-Aug-22   | TEL074 | 110 |  |
| Trace Metals, Total     |        |      |      |             |        |     |  |
| Aluminum                | 1.9    | 0.6  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Antimony                | < 0.1  | 0.1  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Arsenic                 | < 0.2  | 0.2  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Barium                  | < 0.1  | 0.1  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Beryllium               | < 0.1  | 0.1  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Bismuth                 | < 0.2  | 0.2  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Cadmium                 | < 0.04 | 0.04 | μg/L | 31-Aug-22   | TEL035 |     |  |
| Cesium                  | < 0.1  | 0.1  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Chromium                | < 0.1  | 0.1  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Cobalt                  | < 0.1  | 0.1  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Copper                  | 1.4    | 0.2  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Iron                    | < 5    | 5    | ug/L | 31-Aug-22   | TEL035 |     |  |
| Lead                    | 0.1    | 0.1  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Lithium                 | < 0.2  | 0.2  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Manganese               | < 0.1  | 0.1  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Molybdenum              | < 0.1  | 0.1  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Nickel                  | < 0.1  | 0.1  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Rubidium                | < 0.1  | 0.1  | μg/L | 31-Aug-22   | TEL035 |     |  |
| Selenium                | < 0.3  | 0.3  | μg/L | 31-Aug-22   | TEL035 |     |  |

**ReportDate:** Monday, September 5, 2022





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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EU-RC | )     | Taiga Sample ID: 002 |      |           |        |  |  |
|-------------------------|-------|----------------------|------|-----------|--------|--|--|
| Silver                  | < 0.1 | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Strontium               | 0.2   | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Thallium                | < 0.1 | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Titanium                | < 0.1 | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Uranium                 | < 0.1 | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Vanadium                | < 0.1 | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Zinc                    | 20.4  | 0.4                  | μg/L | 31-Aug-22 | TEL035 |  |  |



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### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EU-Main Taiga Sample ID: 003

**Client Project:** Domestic Water

Sample Type: Water Storage Tank - Main Complex

Received Date: 19-Aug-22 Sampling Date: 11-Aug-22 Sampling Time: 16:05

Location: Eureka, Nunavut

Report Status: Final

| Test Parameter                | Result | Detection<br>Limit | Units     | Analysis<br>Date | Analytical<br>Method * | Qualifer |
|-------------------------------|--------|--------------------|-----------|------------------|------------------------|----------|
| Cations by ICP-MS             |        |                    |           |                  |                        |          |
| Calcium                       | 70.0   | 0.1                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Hardness                      | 314    | 0.7                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Magnesium                     | 33.9   | 0.1                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Sodium                        | 73.1   | 0.1                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Inorganics - Nutrients        |        |                    |           |                  |                        |          |
| Organic Carbon, Total         | 1.5    | 0.5                | mg/L      | 24-Aug-22        | TEL033                 |          |
| Inorganics - Physicals        |        |                    |           |                  |                        |          |
| Alkalinity, Total (as CaCO3)  | 65.5   | 0.4                | mg/L      | 20-Aug-22        | TEL060                 |          |
| Conductivity, Specific (@25C) | 963    | 0.4                | μS/cm     | 20-Aug-22        | TEL059                 |          |
| рН                            | 8.14   |                    | pH units  | 20-Aug-22        | TEL058                 |          |
| Solids, Total Suspended       | < 3    | 3                  | mg/L      | 22-Aug-22        | TEL008                 |          |
| Turbidity                     | 2.55   | 0.05               | NTU       | 19-Aug-22        | TEL006                 |          |
| <u>Microbiology</u>           |        |                    |           |                  |                        |          |
| Coliforms, Total              |        | 1                  | MPN/100ml |                  | TEL053                 | 105      |
| Escherichia coli              |        | 1                  | MPN/100ml |                  | TEL053                 | 105      |
| <u>Organics</u>               |        |                    |           |                  |                        |          |

ReportDate: Monday, September 5, 2022



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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EU-Main | Taiga Sample ID: 003 |      |      |           |        |     |  |
|---------------------------|----------------------|------|------|-----------|--------|-----|--|
| Bromodichloromethane      | 26.3                 | 1    | ug/L | 23-Aug-22 | TEL074 | 110 |  |
| Bromoform                 | 43.9                 | 1    | ug/L | 23-Aug-22 | TEL074 | 110 |  |
| Chloroform                | 10.6                 | 1    | ug/L | 23-Aug-22 | TEL074 | 110 |  |
| Dibromochloromethane      | 51.9                 | 1    | ug/L | 23-Aug-22 | TEL074 | 110 |  |
| Trihalomethanes, Total    | 133                  | 1    | ug/L | 23-Aug-22 | TEL074 | 110 |  |
| Trace Metals, Total       |                      |      |      |           |        |     |  |
| Aluminum                  | 43.2                 | 0.6  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Antimony                  | < 0.1                | 0.1  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Arsenic                   | < 0.2                | 0.2  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Barium                    | 5.4                  | 0.1  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Beryllium                 | < 0.1                | 0.1  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Cadmium                   | < 0.0                | 0.04 | μg/L | 31-Aug-22 | TEL035 |     |  |
| Cesium                    | < 0.1                | 0.1  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Chromium                  | 0.2                  | 0.1  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Cobalt                    | 0.4                  | 0.1  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Copper                    | 9.9                  | 0.2  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Iron                      | 99                   | 5    | μg/L | 31-Aug-22 | TEL035 |     |  |
| Lead                      | 0.2                  | 0.1  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Lithium                   | 15.6                 | 0.2  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Manganese                 | 16.3                 | 0.1  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Molybdenum                | 0.2                  | 0.1  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Nickel                    | 3.5                  | 0.1  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Rubidium                  | 1.4                  | 0.1  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Selenium                  | 0.5                  | 0.3  | μg/L | 31-Aug-22 | TEL035 |     |  |
| Silver                    | < 0.1                | 0.1  | μg/L | 31-Aug-22 | TEL035 |     |  |





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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EU-Main | n     | Taiga Sample ID: 003 |                       |  |  |  |  |  |  |  |  |
|---------------------------|-------|----------------------|-----------------------|--|--|--|--|--|--|--|--|
| Strontium                 | 284   | 0.1                  | μg/L 31-Aug-22 TEL035 |  |  |  |  |  |  |  |  |
| Thallium                  | < 0.1 | 0.1                  | μg/L 31-Aug-22 TEL035 |  |  |  |  |  |  |  |  |
| Titanium                  | 0.9   | 0.1                  | μg/L 31-Aug-22 TEL035 |  |  |  |  |  |  |  |  |
| Uranium                   | 0.4   | 0.1                  | μg/L 31-Aug-22 TEL035 |  |  |  |  |  |  |  |  |
| Vanadium                  | 0.2   | 0.1                  | μg/L 31-Aug-22 TEL035 |  |  |  |  |  |  |  |  |
| Zinc                      | 62.6  | 0.4                  | μg/L 31-Aug-22 TEL035 |  |  |  |  |  |  |  |  |



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### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EU-Tap Taiga Sample ID: 004

Client Project: Domestic Water Sample Type: Weather Office Tap

Received Date: 19-Aug-22 Sampling Date: 11-Aug-22 Sampling Time: 15:45

Location: Eureka, Nunavut

Report Status: Final

| Test Parameter                | Result | Detection<br>Limit | Units     | Analysis<br>Date | Analytical<br>Method * | Qualifer |
|-------------------------------|--------|--------------------|-----------|------------------|------------------------|----------|
| Cations by ICP-MS             |        |                    |           |                  |                        |          |
| Calcium                       | 1.0    | 0.1                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Hardness                      | 3.6    | 0.7                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Magnesium                     | 0.3    | 0.1                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Sodium                        | 219    | 0.1                | mg/L      | 24-Aug-22        | TEL035                 |          |
| <b>Inorganics - Nutrients</b> |        |                    |           |                  |                        |          |
| Organic Carbon, Total         | 1.7    | 0.5                | mg/L      | 24-Aug-22        | TEL033                 |          |
| Inorganics - Physicals        |        |                    |           |                  |                        |          |
| Alkalinity, Total (as CaCO3)  | 67.6   | 0.4                | mg/L      | 20-Aug-22        | TEL060                 |          |
| Conductivity, Specific (@25C) | 1070   | 0.4                | μS/cm     | 20-Aug-22        | TEL059                 |          |
| рН                            | 8.22   |                    | pH units  | 20-Aug-22        | TEL058                 |          |
| Solids, Total Suspended       | < 3    | 3                  | mg/L      | 22-Aug-22        | TEL008                 |          |
| Turbidity                     | 0.22   | 0.05               | NTU       | 19-Aug-22        | TEL006                 |          |
| <u>Microbiology</u>           |        |                    |           |                  |                        |          |
| Coliforms, Total              |        | 1                  | MPN/100ml |                  | TEL053                 | 105      |
| Escherichia coli              |        | 1                  | MPN/100ml |                  | TEL053                 | 105      |
| <u>Organics</u>               |        |                    |           |                  |                        |          |

ReportDate: Monday, September 5, 2022



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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EU-Tap |        |      | Taiga Sample ID: 004 |           |        |  |  |  |
|--------------------------|--------|------|----------------------|-----------|--------|--|--|--|
| Bromodichloromethane     | 26.1   | 1    | ug/L                 | 23-Aug-22 | TEL074 |  |  |  |
| Bromoform                | 41.2   | 1    | ug/L                 | 23-Aug-22 | TEL074 |  |  |  |
| Chloroform               | 15.0   | 1    | ug/L                 | 23-Aug-22 | TEL074 |  |  |  |
| Dibromochloromethane     | 48.7   | 1    | ug/L                 | 23-Aug-22 | TEL074 |  |  |  |
| Trihalomethanes, Total   | 131    | 1    | ug/L                 | 23-Aug-22 | TEL074 |  |  |  |
| Trace Metals, Total      |        |      |                      |           |        |  |  |  |
| Aluminum                 | 9.9    | 0.6  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Antimony                 | < 0.1  | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Arsenic                  | < 0.2  | 0.2  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Barium                   | 0.1    | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Beryllium                | < 0.1  | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Bismuth                  | < 0.2  | 0.2  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Cadmium                  | < 0.04 | 0.04 | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Cesium                   | < 0.1  | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Chromium                 | 0.1    | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Cobalt                   | < 0.1  | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Copper                   | 74.1   | 0.2  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Iron                     | 10     | 5    | ug/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Lead                     | < 0.1  | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Lithium                  | 3.9    | 0.2  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Manganese                | 0.6    | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Molybdenum               | 0.2    | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Nickel                   | < 0.1  | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Rubidium                 | 0.3    | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |
| Selenium                 | 0.6    | 0.3  | μg/L                 | 31-Aug-22 | TEL035 |  |  |  |

**ReportDate:** Monday, September 5, 2022





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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EU-Tap | Taiga Sample ID: 004 |     |      |           |        |  |
|--------------------------|----------------------|-----|------|-----------|--------|--|
| Silver                   | < 0.1                | 0.1 | μg/L | 31-Aug-22 | TEL035 |  |
| Strontium                | 2.8                  | 0.1 | μg/L | 31-Aug-22 | TEL035 |  |
| Thallium                 | < 0.1                | 0.1 | μg/L | 31-Aug-22 | TEL035 |  |
| Titanium                 | 0.1                  | 0.1 | μg/L | 31-Aug-22 | TEL035 |  |
| Uranium                  | 0.2                  | 0.1 | μg/L | 31-Aug-22 | TEL035 |  |
| Vanadium                 | < 0.1                | 0.1 | μg/L | 31-Aug-22 | TEL035 |  |
| Zinc                     | 8.4                  | 0.4 | μg/L | 31-Aug-22 | TEL035 |  |



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### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EU-Fresh Taiga Sample ID: 005

Client Project: Domestic Water
Sample Type: Fresh Water Lagoon

Received Date: 19-Aug-22 Sampling Date: 11-Aug-22 Sampling Time: 14:25

Location: Eureka, Nunavut

Report Status: Final

| Test Parameter                | Result | Detection<br>Limit | Units     | Analysis<br>Date | Analytical<br>Method * | Qualifer |
|-------------------------------|--------|--------------------|-----------|------------------|------------------------|----------|
| Cations by ICP-MS             |        |                    |           |                  |                        |          |
| Calcium                       | 64.5   | 0.1                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Hardness                      | 284    | 0.7                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Magnesium                     | 29.9   | 0.1                | mg/L      | 24-Aug-22        | TEL035                 |          |
| Sodium                        | 56.2   | 0.1                | mg/L      | 24-Aug-22        | TEL035                 |          |
| <b>Inorganics - Nutrients</b> |        |                    |           |                  |                        |          |
| Organic Carbon, Total         | 1.5    | 0.5                | mg/L      | 24-Aug-22        | TEL033                 |          |
| <b>Inorganics - Physicals</b> |        |                    |           |                  |                        |          |
| Alkalinity, Total (as CaCO3)  | 63.8   | 0.4                | mg/L      | 20-Aug-22        | TEL060                 |          |
| Conductivity, Specific (@25C) | 808    | 0.4                | μS/cm     | 20-Aug-22        | TEL059                 |          |
| рН                            | 8.10   |                    | pH units  | 20-Aug-22        | TEL058                 |          |
| Solids, Total Suspended       | 6      | 3                  | mg/L      | 22-Aug-22        | TEL008                 |          |
| Turbidity                     | 14.0   | 0.05               | NTU       | 19-Aug-22        | TEL006                 |          |
| <u>Microbiology</u>           |        |                    |           |                  |                        |          |
| Coliforms, Total              |        | 1                  | MPN/100ml |                  | TEL053                 | 105      |
| Escherichia coli              |        | 1                  | MPN/100ml |                  | TEL053                 | 105      |
| <u>Organics</u>               |        |                    |           |                  |                        |          |

ReportDate: Monday, September 5, 2022



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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EU-Fresh |       |      | Taiga Sample ID: 005 |           |        |  |  |
|----------------------------|-------|------|----------------------|-----------|--------|--|--|
| Bromodichloromethane       | < 1.0 | 1    | ug/L                 | 23-Aug-22 | TEL074 |  |  |
| Bromoform                  | < 1.0 | 1    | ug/L                 | 23-Aug-22 | TEL074 |  |  |
| Chloroform                 | < 1.0 | 1    | ug/L                 | 23-Aug-22 | TEL074 |  |  |
| Dibromochloromethane       | < 1.0 | 1    | ug/L                 | 23-Aug-22 | TEL074 |  |  |
| Trihalomethanes, Total     | < 1.0 | 1    | ug/L                 | 23-Aug-22 | TEL074 |  |  |
| Trace Metals, Total        |       |      |                      |           |        |  |  |
| Aluminum                   | 225   | 0.6  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Antimony                   | < 0.1 | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Arsenic                    | 0.4   | 0.2  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Barium                     | 9.0   | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Beryllium                  | < 0.1 | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Cadmium                    | < 0.0 | 0.04 | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Cesium                     | < 0.1 | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Chromium                   | 0.5   | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Cobalt                     | 0.4   | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Copper                     | 0.8   | 0.2  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Iron                       | 547   | 5    | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Lead                       | 0.3   | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Lithium                    | 12.4  | 0.2  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Manganese                  | 9.9   | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Molybdenum                 | 0.2   | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Nickel                     | 2.9   | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Rubidium                   | 1.7   | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Selenium                   | 0.6   | 0.3  | μg/L                 | 31-Aug-22 | TEL035 |  |  |
| Silver                     | < 0.1 | 0.1  | μg/L                 | 31-Aug-22 | TEL035 |  |  |

**ReportDate:** Monday, September 5, 2022





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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EU-Fresh | Taiga Sample ID: 005 |     |      |                  |  |  |  |  |  |  |
|----------------------------|----------------------|-----|------|------------------|--|--|--|--|--|--|
| Strontium                  | 251                  | 0.1 | μg/L | 31-Aug-22 TEL035 |  |  |  |  |  |  |
| Thallium                   | < 0.1                | 0.1 | μg/L | 31-Aug-22 TEL035 |  |  |  |  |  |  |
| Titanium                   | 5.2                  | 0.1 | μg/L | 31-Aug-22 TEL035 |  |  |  |  |  |  |
| Uranium                    | 0.4                  | 0.1 | μg/L | 31-Aug-22 TEL035 |  |  |  |  |  |  |
| Vanadium                   | 1.1                  | 0.1 | μg/L | 31-Aug-22 TEL035 |  |  |  |  |  |  |
| Zinc                       | 2.6                  | 0.4 | μg/L | 31-Aug-22 TEL035 |  |  |  |  |  |  |



Taiga Batch No.: 221718

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9 Tel: (867)-767-9235 Fax: (867)-920-8740

#### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EU-Fresh Taiga Sample ID: 005

### - DATA QUALIFERS -

Data Qualifier Descriptions:

Samples received past hold time; analysis not possible.

Reported result uncertain, due to air in vial.

\* Taiga analytical methods are based on the following standard analytical methods

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency



4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9 Tel: (867)-767-9235 Fax: (867)-920-8740

#### - FINAL REPORT -

Prepared For: Environment Canada

Address: 123 Main Street

Suite 150 Winnipeg,MB R3C 4W2

Attn: Don Lavallee Facsimile:

Final report has been reviewed and approved by:

Judy Mah

**Client Service Officer** 

#### NOTES:

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) to ISO/IEC 17025 as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
  - o Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
  - o Environment Canada
  - o USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- > Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

ReportDate: Monday, September 5, 2022 Page 1 of 5





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### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EUR-3 Taiga Sample ID: 001

Client Project: Sewage Lagoon Sample Type: Sewage Lagoon Received Date: 19-Aug-22 Sampling Date: 11-Aug-22 Sampling Time: 16:00

Location: Eureka, Nunavut

Report Status: Final

| Test Parameter                | Result | Detection<br>Limit | Units    | Analysis<br>Date | Analytical<br>Method * | Qualifer |
|-------------------------------|--------|--------------------|----------|------------------|------------------------|----------|
| Cations by ICP-MS             |        |                    |          |                  |                        |          |
| Calcium                       | 193    | 2.6                | mg/L     | 24-Aug-22        | TEL035                 |          |
| Hardness                      | 1010   | 18.2               | mg/L     | 24-Aug-22        | TEL035                 |          |
| Magnesium                     | 130    | 2.6                | mg/L     | 24-Aug-22        | TEL035                 |          |
| Potassium                     | 34.8   | 2.6                | mg/L     | 24-Aug-22        | TEL035                 |          |
| Sodium                        | 962    | 2.6                | mg/L     | 24-Aug-22        | TEL035                 |          |
| Inorganics - Nutrients        |        |                    |          |                  |                        |          |
| Ammonia as Nitrogen           | 16.4   | 0.005              | mg/L     | 22-Aug-22        | TEL068                 |          |
| Biochemical Oxygen Demand     |        | 2                  | mg/L     |                  | TEL019                 | 105      |
| Organic Carbon, Total         | 203    | 0.5                | mg/L     | 24-Aug-22        | TEL033                 |          |
| Phosphorous, Total            | 3.71   | 0.002              | mg/L     | 25-Aug-22        | TEL069                 |          |
| <u>Inorganics - Physicals</u> |        |                    |          |                  |                        |          |
| Alkalinity, Total (as CaCO3)  | 344    | 0.4                | mg/L     | 20-Aug-22        | TEL060                 |          |
| Conductivity, Specific (@25C) | 6140   | 0.4                | μS/cm    | 20-Aug-22        | TEL059                 |          |
| рН                            | 8.26   |                    | pH units | 20-Aug-22        | TEL058                 |          |
| Solids, Total Suspended       | 230    | 3                  | mg/L     | 19-Aug-22        | TEL008                 |          |

**ReportDate:** Monday, September 5, 2022



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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EUR-3     | Taiga Sample ID: 001 |       |           |           |              |     |
|-----------------------------|----------------------|-------|-----------|-----------|--------------|-----|
| Major Ions                  |                      |       |           |           |              |     |
| Chloride                    | 1490                 | 0.7   | mg/L      | 21-Aug-22 | TEL055       |     |
| Nitrate as Nitrogen         | < 0.01               | 0.01  | mg/L      | 21-Aug-22 | TEL055       |     |
| Nitrate+Nitrite as Nitrogen | < 0.01               | 0.01  | mg/L      | 21-Aug-22 | TEL055       |     |
| Sulphate                    | 578                  | 1     | mg/L      | 21-Aug-22 | TEL055       |     |
| Microbiology                |                      |       |           |           |              |     |
| Coliforms, Fecal            |                      | 1     | CFU/100mL |           | TEL017       | 105 |
| <u>Organics</u>             |                      |       |           |           |              |     |
| Oil and Grease, visible     | Non-visible          |       |           | 19-Aug-22 | Visual Exam  |     |
| Subcontracted Organics      |                      |       |           |           |              |     |
| Phenols, Total              | 0.0094               | 0.001 | mg/L      | 25-Aug-22 | AB ENV.06537 |     |
| Trace Metals, Total         |                      |       |           |           |              |     |
| Aluminum                    | 1310                 | 0.6   | μg/L      | 31-Aug-22 | TEL035       |     |
| Antimony                    | 0.8                  | 0.1   | μg/L      | 31-Aug-22 | TEL035       |     |
| Arsenic                     | 3.9                  | 0.2   | μg/L      | 31-Aug-22 | TEL035       |     |
| Barium                      | 20.0                 | 0.1   | μg/L      | 31-Aug-22 | TEL035       |     |
| Beryllium                   | < 0.1                | 0.1   | μg/L      | 31-Aug-22 | TEL035       |     |
| Cadmium                     | 0.6                  | 0.04  | μg/L      | 31-Aug-22 | TEL035       |     |
| Cesium                      | < 0.1                | 0.1   | μg/L      | 31-Aug-22 | TEL035       |     |
| Chromium                    | 1.7                  | 0.1   | μg/L      | 31-Aug-22 | TEL035       |     |
| Cobalt                      | 1.5                  | 0.1   | μg/L      | 31-Aug-22 | TEL035       |     |
| Copper                      | 59.3                 | 0.2   | μg/L      | 31-Aug-22 | TEL035       |     |
| Iron                        | 1860                 | 5     | μg/L      | 31-Aug-22 | TEL035       |     |
| Lead                        | 1.6                  | 0.1   | μg/L      | 31-Aug-22 | TEL035       |     |
| Lithium                     | 37.5                 | 0.2   | μg/L      | 31-Aug-22 | TEL035       |     |

**ReportDate:** Monday, September 5, 2022





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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EUR-3 |       | Taiga Sample ID: 001 |      |           |        |  |  |
|-------------------------|-------|----------------------|------|-----------|--------|--|--|
| Manganese               | 783   | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Molybdenum              | 0.7   | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Nickel                  | 9.6   | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Rubidium                | 18.7  | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Selenium                | 2.8   | 0.3                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Silver                  | 0.1   | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Strontium               | 810   | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Thallium                | < 0.1 | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Titanium                | 3.7   | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Uranium                 | 0.4   | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Vanadium                | 1.8   | 0.1                  | μg/L | 31-Aug-22 | TEL035 |  |  |
| Zinc                    | 66.4  | 0.4                  | μg/L | 31-Aug-22 | TEL035 |  |  |



Taiga Batch No.: 221719

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9 Tel: (867)-767-9235 Fax: (867)-920-8740

#### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EUR-3 Taiga Sample ID: 001

## - DATA QUALIFERS -

Data Qualifier Descriptions:

Samples received past hold time; analysis not possible.

\* Taiga analytical methods are based on the following standard analytical methods

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency



4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9 Tel: (867)-767-9235 Fax: (867)-920-8740

#### - FINAL REPORT -

Prepared For: Environment Canada

Address: 123 Main Street

Suite 150 Winnipeg,MB R3C 4W2

Attn: Greg Stansfield Facsimile:

Final report has been reviewed and approved by:

Glen Hudy

**Quality Assurance Officer** 

#### NOTES:

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) to ISO/IEC 17025 as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
  - o Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
  - o Environment Canada
  - o USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- > Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

ReportDate: November-25-22 Page 1 of 14





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### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EU - Bulk Taiga Sample ID: 001

**Client Project:** 

**Sample Type:** Water Storage Tank - Powerhouse

**Received Date:** 10-Nov-22 **Sampling Date:** 09-Nov-22

**Sampling Time:** 

**Location:** Eureka, NU Report Status: Final

| Test Parameter                | Result | Detection<br>Limit | Units     | Analysis<br>Date | Analytical<br>Method * | Qualifer |
|-------------------------------|--------|--------------------|-----------|------------------|------------------------|----------|
| Cations by ICP-MS             |        |                    |           |                  |                        |          |
| Calcium                       | 76.5   | 0.1                | mg/L      | 21-Nov-22        | TEL035                 |          |
| Hardness                      | 344    | 0.7                | mg/L      | 21-Nov-22        | TEL035                 |          |
| Magnesium                     | 37.2   | 0.1                | mg/L      | 21-Nov-22        | TEL035                 |          |
| Sodium                        | 82.0   | 0.1                | mg/L      | 21-Nov-22        | TEL035                 |          |
| <b>Inorganics - Nutrients</b> |        |                    |           |                  |                        |          |
| Organic Carbon, Total         | 1.6    | 0.5                | mg/L      | 21-Nov-22        | TEL033                 |          |
| <b>Inorganics - Physicals</b> |        |                    |           |                  |                        |          |
| Alkalinity, Total (as CaCO3)  | 85.2   | 0.4                | mg/L      | 14-Nov-22        | TEL060                 | 102      |
| Conductivity, Specific (@25C) | 1020   | 0.4                | μS/cm     | 10-Nov-22        | TEL059                 |          |
| рН                            | 8.02   |                    | pH units  | 10-Nov-22        | TEL058                 |          |
| Solids, Total Suspended       | 4      | 3                  | mg/L      | 16-Nov-22        | TEL008                 |          |
| Turbidity                     | 0.94   | 0.05               | NTU       | 09-Nov-22        | TEL006                 |          |
| <u>Microbiology</u>           |        |                    |           |                  |                        |          |
| Coliforms, Total              | < 1.0  | 1                  | MPN/100ml | 10-Nov-22        | TEL053                 |          |
| Escherichia coli              | < 1.0  | 1                  | MPN/100ml | 10-Nov-22        | TEL053                 |          |

ReportDate: November-25-22



4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9 Tel: (867)-767-9235 Fax: (867)-920-8740

## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EU - Bulk |        |      | Taig | ga Sample ID | : 001  |     |
|-----------------------------|--------|------|------|--------------|--------|-----|
| <u>Organics</u>             |        |      |      |              |        |     |
| Bromodichloromethane        | 42.6   | 1    | ug/L | 21-Nov-22    | TEL074 | 110 |
| Bromoform                   | 27.0   | 1    | ug/L | 21-Nov-22    | TEL074 | 110 |
| Chloroform                  | 28.3   | 1    | ug/L | 21-Nov-22    | TEL074 | 110 |
| Dibromochloromethane        | 62.0   | 1    | ug/L | 21-Nov-22    | TEL074 | 110 |
| Trihalomethanes, Total      | 160    | 1    | ug/L | 21-Nov-22    | TEL074 | 110 |
| Trace Metals, Total         |        |      |      |              |        |     |
| Aluminum                    | 15.0   | 0.6  | μg/L | 14-Nov-22    | TEL035 |     |
| Antimony                    | < 0.1  | 0.1  | μg/L | 14-Nov-22    | TEL035 |     |
| Arsenic                     | 0.2    | 0.2  | μg/L | 14-Nov-22    | TEL035 |     |
| Barium                      | 9.6    | 0.1  | μg/L | 14-Nov-22    | TEL035 |     |
| Beryllium                   | < 0.1  | 0.1  | μg/L | 14-Nov-22    | TEL035 |     |
| Cadmium                     | < 0.04 | 0.04 | μg/L | 14-Nov-22    | TEL035 |     |
| Cesium                      | < 0.1  | 0.1  | μg/L | 14-Nov-22    | TEL035 |     |
| Chromium                    | 0.2    | 0.1  | μg/L | 14-Nov-22    | TEL035 |     |
| Cobalt                      | < 0.1  | 0.1  | μg/L | 14-Nov-22    | TEL035 |     |
| Copper                      | 114    | 0.2  | μg/L | 14-Nov-22    | TEL035 |     |
| Iron                        | 425    | 5    | ug/L | 14-Nov-22    | TEL035 |     |
| Lead                        | 0.2    | 0.1  | μg/L | 14-Nov-22    | TEL035 |     |
| Lithium                     | 15.5   | 0.2  | μg/L | 14-Nov-22    | TEL035 |     |
| Manganese                   | 3.9    | 0.1  | μg/L | 14-Nov-22    | TEL035 |     |
| Molybdenum                  | 0.2    | 0.1  | μg/L | 14-Nov-22    | TEL035 |     |
| Nickel                      | 2.4    | 0.1  | μg/L | 14-Nov-22    | TEL035 |     |
| Rubidium                    | 1.3    | 0.1  | μg/L | 14-Nov-22    | TEL035 |     |
| Selenium                    | < 0.3  | 0.3  | μg/L | 14-Nov-22    | TEL035 |     |

**ReportDate:** November-25-22





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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: | EU - Bulk |     | Ta   | aiga Sample ID | : 001  |
|-------------------|-----------|-----|------|----------------|--------|
| Silver            | < 0.1     | 0.1 | μg/L | 14-Nov-22      | TEL035 |
| Strontium         | 291       | 0.1 | μg/L | 14-Nov-22      | TEL035 |
| Thallium          | < 0.1     | 0.1 | μg/L | 14-Nov-22      | TEL035 |
| Titanium          | 0.4       | 0.1 | μg/L | 14-Nov-22      | TEL035 |
| Uranium           | 0.4       | 0.1 | μg/L | 14-Nov-22      | TEL035 |
| Vanadium          | 0.1       | 0.1 | μg/L | 14-Nov-22      | TEL035 |
| Zinc              | 98.4      | 0.4 | μg/L | 14-Nov-22      | TEL035 |

**ReportDate:** November-25-22 **Print Date:** *November-25-22* 



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### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EU - RO Taiga Sample ID: 002

**Client Project:** 

Sample Type: Reverse Osmosis

**Received Date:** 10-Nov-22 **Sampling Date:** 09-Nov-22

**Sampling Time:** 

Location: Eureka, NU

Report Status: Final

| Test Parameter                | Result | Detection<br>Limit | Units     | Analysis<br>Date | Analytical<br>Method * | Qualifer |
|-------------------------------|--------|--------------------|-----------|------------------|------------------------|----------|
| Cations by ICP-MS             |        |                    |           |                  |                        |          |
| Calcium                       | < 0.1  | 0.1                | mg/L      | 21-Nov-22        | TEL035                 |          |
| Hardness                      | < 0.7  | 0.7                | mg/L      | 21-Nov-22        | TEL035                 |          |
| Magnesium                     | < 0.1  | 0.1                | mg/L      | 21-Nov-22        | TEL035                 |          |
| Sodium                        | 3.9    | 0.1                | mg/L      | 21-Nov-22        | TEL035                 |          |
| <b>Inorganics - Nutrients</b> |        |                    |           |                  |                        |          |
| Organic Carbon, Total         | < 0.5  | 0.5                | mg/L      | 21-Nov-22        | TEL033                 |          |
| <b>Inorganics - Physicals</b> |        |                    |           |                  |                        |          |
| Alkalinity, Total (as CaCO3)  | 2.9    | 0.4                | mg/L      | 14-Nov-22        | TEL060                 | 102      |
| Conductivity, Specific (@25C) | 16.4   | 0.4                | μS/cm     | 10-Nov-22        | TEL059                 |          |
| рН                            | 7.02   |                    | pH units  | 10-Nov-22        | TEL058                 |          |
| Solids, Total Suspended       | < 3    | 3                  | mg/L      | 16-Nov-22        | TEL008                 |          |
| Turbidity                     | 0.07   | 0.05               | NTU       | 09-Nov-22        | TEL006                 |          |
| Microbiology                  |        |                    |           |                  |                        |          |
| Coliforms, Total              | < 1.0  | 1                  | MPN/100ml | 10-Nov-22        | TEL053                 |          |
| Escherichia coli              | < 1.0  | 1                  | MPN/100ml | 10-Nov-22        | TEL053                 |          |
| <u>Organics</u>               |        |                    |           |                  |                        |          |

ReportDate: November-25-22

Print Date: November-25-22

Page 5 of 14



4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9 Tel: (867)-767-9235 Fax: (867)-920-8740

## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EU - RO |        |      | Taig | a Sample ID | : 002  |
|---------------------------|--------|------|------|-------------|--------|
| Bromodichloromethane      | 6.9    | 1    | ug/L | 21-Nov-22   | TEL074 |
| Bromoform                 | 3.4    | 1    | ug/L | 21-Nov-22   | TEL074 |
| Chloroform                | 7.6    | 1    | ug/L | 21-Nov-22   | TEL074 |
| Dibromochloromethane      | 8.4    | 1    | ug/L | 21-Nov-22   | TEL074 |
| Trihalomethanes, Total    | 26.3   | 1    | ug/L | 21-Nov-22   | TEL074 |
| Trace Metals, Total       |        |      |      |             |        |
| Aluminum                  | < 0.6  | 0.6  | μg/L | 14-Nov-22   | TEL035 |
| Antimony                  | < 0.1  | 0.1  | μg/L | 14-Nov-22   | TEL035 |
| Arsenic                   | < 0.2  | 0.2  | μg/L | 14-Nov-22   | TEL035 |
| Barium                    | < 0.1  | 0.1  | μg/L | 14-Nov-22   | TEL035 |
| Beryllium                 | < 0.1  | 0.1  | μg/L | 14-Nov-22   | TEL035 |
| Cadmium                   | < 0.04 | 0.04 | μg/L | 14-Nov-22   | TEL035 |
| Cesium                    | < 0.1  | 0.1  | μg/L | 14-Nov-22   | TEL035 |
| Chromium                  | < 0.1  | 0.1  | μg/L | 14-Nov-22   | TEL035 |
| Cobalt                    | < 0.1  | 0.1  | μg/L | 14-Nov-22   | TEL035 |
| Copper                    | 1.9    | 0.2  | μg/L | 14-Nov-22   | TEL035 |
| Iron                      | < 5    | 5    | ug/L | 14-Nov-22   | TEL035 |
| Lead                      | < 0.1  | 0.1  | μg/L | 14-Nov-22   | TEL035 |
| Lithium                   | < 0.2  | 0.2  | μg/L | 14-Nov-22   | TEL035 |
| Manganese                 | < 0.1  | 0.1  | μg/L | 14-Nov-22   | TEL035 |
| Molybdenum                | < 0.1  | 0.1  | μg/L | 14-Nov-22   | TEL035 |
| Nickel                    | < 0.1  | 0.1  | μg/L | 14-Nov-22   | TEL035 |
| Rubidium                  | < 0.1  | 0.1  | μg/L | 14-Nov-22   | TEL035 |
| Selenium                  | < 0.3  | 0.3  | μg/L | 14-Nov-22   | TEL035 |
| Silver                    | < 0.1  | 0.1  | μg/L | 14-Nov-22   | TEL035 |

ReportDate: November-25-22





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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EU - RO |       |     | Taig | a Sample ID: | 002    |
|---------------------------|-------|-----|------|--------------|--------|
| Strontium                 | 0.1   | 0.1 | μg/L | 14-Nov-22    | TEL035 |
| Thallium                  | < 0.1 | 0.1 | μg/L | 14-Nov-22    | TEL035 |
| Titanium                  | < 0.1 | 0.1 | μg/L | 14-Nov-22    | TEL035 |
| Uranium                   | < 0.1 | 0.1 | μg/L | 14-Nov-22    | TEL035 |
| Vanadium                  | < 0.1 | 0.1 | μg/L | 14-Nov-22    | TEL035 |
| Zinc                      | 13.3  | 0.4 | μg/L | 14-Nov-22    | TEL035 |

**ReportDate:** November-25-22 **Print Date:** *November-25-22* 



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### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EU - Main Taiga Sample ID: 003

**Client Project:** 

Sample Type: Water Storage Tank - Main Complex

**Received Date:** 10-Nov-22 **Sampling Date:** 09-Nov-22

**Sampling Time:** 

Location: Eureka, NU
Report Status: Final

| Test Parameter                | Result | Detection<br>Limit | Units     | Analysis<br>Date | Analytical<br>Method * | Qualifer |
|-------------------------------|--------|--------------------|-----------|------------------|------------------------|----------|
| Cations by ICP-MS             |        |                    |           |                  |                        |          |
| Calcium                       | 71.0   | 0.1                | mg/L      | 21-Nov-22        | TEL035                 |          |
| Hardness                      | 321    | 0.7                | mg/L      | 21-Nov-22        | TEL035                 |          |
| Magnesium                     | 35.0   | 0.1                | mg/L      | 21-Nov-22        | TEL035                 |          |
| Sodium                        | 75.3   | 0.1                | mg/L      | 21-Nov-22        | TEL035                 |          |
| <b>Inorganics - Nutrients</b> |        |                    |           |                  |                        |          |
| Organic Carbon, Total         | 1.4    | 0.5                | mg/L      | 21-Nov-22        | TEL033                 |          |
| <u>Inorganics - Physicals</u> |        |                    |           |                  |                        |          |
| Alkalinity, Total (as CaCO3)  | 81.7   | 0.4                | mg/L      | 14-Nov-22        | TEL060                 | 102      |
| Conductivity, Specific (@25C) | 975    | 0.4                | μS/cm     | 10-Nov-22        | TEL059                 |          |
| pH                            | 8.09   |                    | pH units  | 10-Nov-22        | TEL058                 |          |
| Solids, Total Suspended       | < 3    | 3                  | mg/L      | 16-Nov-22        | TEL008                 |          |
| Turbidity                     | 1.30   | 0.05               | NTU       | 09-Nov-22        | TEL006                 |          |
| Microbiology                  |        |                    |           |                  |                        |          |
| Coliforms, Total              | < 1.0  | 1                  | MPN/100ml | 10-Nov-22        | TEL053                 |          |
| Escherichia coli              | < 1.0  | 1                  | MPN/100ml | 10-Nov-22        | TEL053                 |          |
| <u>Organics</u>               |        |                    |           |                  |                        |          |

ReportDate: November-25-22



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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EU - Main |        |      | Ta   | iga Sample ID | : 003  |
|-----------------------------|--------|------|------|---------------|--------|
| Bromodichloromethane        | 27.3   | 1    | ug/L | 21-Nov-22     | TEL074 |
| Bromoform                   | 19.4   | 1    | ug/L | 21-Nov-22     | TEL074 |
| Chloroform                  | 14.7   | 1    | ug/L | 21-Nov-22     | TEL074 |
| Dibromochloromethane        | 40.7   | 1    | ug/L | 21-Nov-22     | TEL074 |
| Trihalomethanes, Total      | 102    | 1    | ug/L | 21-Nov-22     | TEL074 |
| Trace Metals, Total         |        |      |      |               |        |
| Aluminum                    | 19.6   | 0.6  | μg/L | 14-Nov-22     | TEL035 |
| Antimony                    | < 0.1  | 0.1  | μg/L | 14-Nov-22     | TEL035 |
| Arsenic                     | < 0.2  | 0.2  | μg/L | 14-Nov-22     | TEL035 |
| Barium                      | 9.0    | 0.1  | μg/L | 14-Nov-22     | TEL035 |
| Beryllium                   | < 0.1  | 0.1  | μg/L | 14-Nov-22     | TEL035 |
| Cadmium                     | < 0.04 | 0.04 | μg/L | 14-Nov-22     | TEL035 |
| Cesium                      | < 0.1  | 0.1  | μg/L | 14-Nov-22     | TEL035 |
| Chromium                    | 0.2    | 0.1  | μg/L | 14-Nov-22     | TEL035 |
| Cobalt                      | < 0.1  | 0.1  | μg/L | 14-Nov-22     | TEL035 |
| Copper                      | 6.9    | 0.2  | μg/L | 14-Nov-22     | TEL035 |
| Iron                        | 35     | 5    | ug/L | 14-Nov-22     | TEL035 |
| Lead                        | 0.1    | 0.1  | μg/L | 14-Nov-22     | TEL035 |
| Lithium                     | 14.3   | 0.2  | μg/L | 14-Nov-22     | TEL035 |
| Manganese                   | 1.4    | 0.1  | μg/L | 14-Nov-22     | TEL035 |
| Molybdenum                  | 0.2    | 0.1  | μg/L | 14-Nov-22     | TEL035 |
| Nickel                      | 2.2    | 0.1  | μg/L | 14-Nov-22     | TEL035 |
| Rubidium                    | 1.2    | 0.1  | μg/L | 14-Nov-22     | TEL035 |
| Selenium                    | < 0.3  | 0.3  | μg/L | 14-Nov-22     | TEL035 |
| Silver                      | < 0.1  | 0.1  | μg/L | 14-Nov-22     | TEL035 |

**ReportDate:** November-25-22



Page 10 of 14



# Taiga Environmental Laboratory

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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EU - Main |       |     | Taig | a Sample ID: 003 |  |
|-----------------------------|-------|-----|------|------------------|--|
| Strontium                   | 273   | 0.1 | μg/L | 14-Nov-22 TEL035 |  |
| Thallium                    | < 0.1 | 0.1 | μg/L | 14-Nov-22 TEL035 |  |
| Titanium                    | 0.6   | 0.1 | μg/L | 14-Nov-22 TEL035 |  |
| Uranium                     | 0.4   | 0.1 | μg/L | 14-Nov-22 TEL035 |  |
| Vanadium                    | < 0.1 | 0.1 | μg/L | 14-Nov-22 TEL035 |  |
| Zinc                        | 62.6  | 0.4 | μg/L | 14-Nov-22 TEL035 |  |

**ReportDate:** November-25-22



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### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EU - Tap Taiga Sample ID: 004

**Client Project:** 

Sample Type: Weather Office Tap

**Received Date:** 10-Nov-22 **Sampling Date:** 09-Nov-22

**Sampling Time:** 

Location: Eureka, NU

Report Status: Final

| Test Parameter                | Result | Detection<br>Limit | Units     | Analysis<br>Date | Analytical<br>Method * | Qualifer |
|-------------------------------|--------|--------------------|-----------|------------------|------------------------|----------|
| Cations by ICP-MS             |        |                    |           |                  |                        |          |
| Calcium                       | 0.8    | 0.1                | mg/L      | 21-Nov-22        | TEL035                 |          |
| Hardness                      | 3.3    | 0.7                | mg/L      | 21-Nov-22        | TEL035                 |          |
| Magnesium                     | 0.3    | 0.1                | mg/L      | 21-Nov-22        | TEL035                 |          |
| Sodium                        | 228    | 0.1                | mg/L      | 21-Nov-22        | TEL035                 |          |
| <b>Inorganics - Nutrients</b> |        |                    |           |                  |                        |          |
| Organic Carbon, Total         | 1.8    | 0.5                | mg/L      | 21-Nov-22        | TEL033                 |          |
| <u>Inorganics - Physicals</u> |        |                    |           |                  |                        |          |
| Alkalinity, Total (as CaCO3)  | 82.3   | 0.4                | mg/L      | 14-Nov-22        | TEL060                 | 102      |
| Conductivity, Specific (@25C) | 1080   | 0.4                | μS/cm     | 10-Nov-22        | TEL059                 |          |
| pH                            | 8.36   |                    | pH units  | 10-Nov-22        | TEL058                 |          |
| Solids, Total Suspended       | < 3    | 3                  | mg/L      | 16-Nov-22        | TEL008                 |          |
| Turbidity                     | 0.18   | 0.05               | NTU       | 09-Nov-22        | TEL006                 |          |
| Microbiology                  |        |                    |           |                  |                        |          |
| Coliforms, Total              | < 1.0  | 1                  | MPN/100ml | 10-Nov-22        | TEL053                 |          |
| Escherichia coli              | < 1.0  | 1                  | MPN/100ml | 10-Nov-22        | TEL053                 |          |
| <u>Organics</u>               |        |                    |           |                  |                        |          |

ReportDate: November-25-22

Print Date: November-25-22

Page 11 of 14



4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9 Tel: (867)-767-9235 Fax: (867)-920-8740

## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: EU - Tap |        | Taiga Sample ID: 004 |      |           |        |
|----------------------------|--------|----------------------|------|-----------|--------|
| Bromodichloromethane       | 30.7   | 1                    | ug/L | 21-Nov-22 | TEL074 |
| Bromoform                  | 20.1   | 1                    | ug/L | 21-Nov-22 | TEL074 |
| Chloroform                 | 39.0   | 1                    | ug/L | 21-Nov-22 | TEL074 |
| Dibromochloromethane       | 41.2   | 1                    | ug/L | 21-Nov-22 | TEL074 |
| Trihalomethanes, Total     | 131    | 1                    | ug/L | 21-Nov-22 | TEL074 |
| Trace Metals, Total        |        |                      |      |           |        |
| Aluminum                   | 6.9    | 0.6                  | μg/L | 14-Nov-22 | TEL035 |
| Antimony                   | < 0.1  | 0.1                  | μg/L | 14-Nov-22 | TEL035 |
| Arsenic                    | < 0.2  | 0.2                  | μg/L | 14-Nov-22 | TEL035 |
| Barium                     | 0.1    | 0.1                  | μg/L | 14-Nov-22 | TEL035 |
| Beryllium                  | < 0.1  | 0.1                  | μg/L | 14-Nov-22 | TEL035 |
| Cadmium                    | < 0.04 | 0.04                 | μg/L | 14-Nov-22 | TEL035 |
| Cesium                     | < 0.1  | 0.1                  | μg/L | 14-Nov-22 | TEL035 |
| Chromium                   | 0.2    | 0.1                  | μg/L | 14-Nov-22 | TEL035 |
| Cobalt                     | < 0.1  | 0.1                  | μg/L | 14-Nov-22 | TEL035 |
| Copper                     | 44.0   | 0.2                  | μg/L | 14-Nov-22 | TEL035 |
| Iron                       | 11     | 5                    | ug/L | 14-Nov-22 | TEL035 |
| Lead                       | 0.1    | 0.1                  | μg/L | 14-Nov-22 | TEL035 |
| Lithium                    | 0.6    | 0.2                  | μg/L | 14-Nov-22 | TEL035 |
| Manganese                  | 0.3    | 0.1                  | μg/L | 14-Nov-22 | TEL035 |
| Molybdenum                 | 0.2    | 0.1                  | μg/L | 14-Nov-22 | TEL035 |
| Nickel                     | 0.8    | 0.1                  | μg/L | 14-Nov-22 | TEL035 |
| Rubidium                   | 0.5    | 0.1                  | μg/L | 14-Nov-22 | TEL035 |
| Selenium                   | 0.4    | 0.3                  | μg/L | 14-Nov-22 | TEL035 |
| Silver                     | < 0.1  | 0.1                  | μg/L | 14-Nov-22 | TEL035 |

**ReportDate:** November-25-22





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## - CERTIFICATE OF ANALYSIS -

| Client Sample ID: | EU - Tap |     | Ta   | iga Sample ID | : 004  |
|-------------------|----------|-----|------|---------------|--------|
| Strontium         | 2.7      | 0.1 | μg/L | 14-Nov-22     | TEL035 |
| Thallium          | < 0.1    | 0.1 | μg/L | 14-Nov-22     | TEL035 |
| Titanium          | 0.2      | 0.1 | μg/L | 14-Nov-22     | TEL035 |
| Uranium           | 0.2      | 0.1 | μg/L | 14-Nov-22     | TEL035 |
| Vanadium          | < 0.1    | 0.1 | μg/L | 14-Nov-22     | TEL035 |
| Zinc              | 16.6     | 0.4 | μg/L | 14-Nov-22     | TEL035 |

**ReportDate:** November-25-22 **Print Date:** *November-25-22* 



Taiga Batch No.: 222294

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#### - CERTIFICATE OF ANALYSIS -

Client Sample ID: EU - Tap Taiga Sample ID: 004

### - DATA QUALIFERS -

Data Qualifier Descriptions:

Sample analyzed past holding time due to equipment failure.

Reported result uncertain, due to air in vial.

\* Taiga analytical methods are based on the following standard analytical methods

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency

ReportDate: November-25-22 Page 14 of 14