



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

**Taiga Batch No.:**  
**230707**

## **- FINAL REPORT -**

**Prepared For:** Town of Norman Wells

**Address:** Box 5  
Norman Wells, NT  
X0E 0V0

**Attn:** Hugo Pabke

**Facsimile:** (867) 587-3724

**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
  - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
  - Environment Canada
  - 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.
- Results are based on the specific tests at the time of analysis, does not represent the conditions during sampling and relates only to the items tested.

**ReportDate:** June 15, 2023

**Print Date:** *June 15, 2023*

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

**Taiga Batch No.:**  
**230707**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID:** **S18L3-003-(2)**

**Taiga Sample ID:** **001**

**Client Project:** S18L3-003

**Sample Type:** Freshwater

**Received Date:** 26-May-23

**Sampling Date:** 25-May-23

**Sampling Time:** 10:30

**Location:** Norman Wells

**Report Status:** **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Cations by ICP-MS</u></b>						
Calcium	41.7	0.1	mg/L	31-May-23	TEL035	
Magnesium	12.1	0.1	mg/L	31-May-23	TEL035	
Potassium	1.0	0.1	mg/L	31-May-23	TEL035	
Sodium	6.6	0.1	mg/L	31-May-23	TEL035	
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	< 0.005	0.005	mg/L	29-May-23	TEL068	
CBOD	6	2	mg/L	26-May-23	TEL019	
Nitrogen, Total	0.83	0.06	mg/L	27-May-23	TEL066	
Organic Carbon, Total	25.2	0.5	mg/L	01-Jun-23	TEL033	
Phosphorous, Total	0.030	0.002	mg/L	01-Jun-23	TEL069	
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	305	0.4	µS/cm	26-May-23	TEL059	
pH	7.53		pH units	26-May-23	TEL058	
Solids, Total Suspended	< 3	3	mg/L	26-May-23	TEL008	
<b><u>Microbiology</u></b>						

**ReportDate:** June 15, 2023

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Taiga Batch No.:  
**230707**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **S18L3-003-(2)**

Taiga Sample ID: **001**

Coliforms, Fecal	1	1	CFU/100mL	26-May-23	TEL017
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**Organics**

Hexane Extractable Material	< 2.0	2	mg/L	01-Jun-23	TEL072
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Oil and Grease, visible	Non-visible			26-May-23	Visual Exam
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**Subcontracted Inorganics**

Nitrate as Nitrogen	< 0.0030	0.003	mg/L	31-May-23	EPA300.1
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Nitrite as N	< 0.0010	0.001	mg/L	31-May-23	EPA300.1
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NO <sub>2</sub> +NO <sub>3</sub> - N	< 0.0050	0.005	mg/L	31-May-23	EPA300.1
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Sulphate	48.3	0.05	mg/L	31-May-23	EPA300.1
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**Subcontracted Organics**

Phenols, Total	< 0.0010	0.001	mg/L	30-May-23	AB ENV.06537
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**Trace Metals, Total**

Arsenic	0.4	0.2	µg/L	31-May-23	TEL035
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Cadmium	< 0.04	0.04	µg/L	31-May-23	TEL035
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Chromium	< 0.1	0.1	µg/L	31-May-23	TEL035
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Copper	0.4	0.2	µg/L	31-May-23	TEL035
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Iron	118	5	µg/L	31-May-23	TEL035
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Lead	0.2	0.1	µg/L	31-May-23	TEL035
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Mercury	< 0.01	0.01	µg/L	31-May-23	TEL035
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Nickel	1.1	0.1	µg/L	31-May-23	TEL035
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Silver	< 0.1	0.1	µg/L	31-May-23	TEL035
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Titanium	0.2	0.1	µg/L	31-May-23	TEL035
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Zinc	1.5	0.4	µg/L	31-May-23	TEL035
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ReportDate: June 15, 2023

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**Taiga Batch No.:**  
**230707**

## - CERTIFICATE OF ANALYSIS -

**Client Sample ID:** S18L3-003-(3)

**Taiga Sample ID:** 002

**Client Project:** S18L-003

**Sample Type:** Freshwater

**Received Date:** 26-May-23

**Sampling Date:** 25-May-23

**Sampling Time:** 10:30

**Location:** Norman Wells

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Cations by ICP-MS</u></b>						
Calcium	45.2	0.1	mg/L	31-May-23	TEL035	
Magnesium	13.9	0.1	mg/L	31-May-23	TEL035	
Potassium	1.0	0.1	mg/L	31-May-23	TEL035	
Sodium	12.1	0.1	mg/L	31-May-23	TEL035	
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	< 0.005	0.005	mg/L	29-May-23	TEL068	
CBOD	5	2	mg/L	26-May-23	TEL019	
Nitrogen, Total	0.85	0.06	mg/L	27-May-23	TEL066	
Organic Carbon, Total	24.9	0.5	mg/L	01-Jun-23	TEL033	
Phosphorous, Total	0.018	0.002	mg/L	01-Jun-23	TEL069	
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	372	0.4	µS/cm	26-May-23	TEL059	
pH	7.98		pH units	26-May-23	TEL058	
Solids, Total Suspended	< 3	3	mg/L	26-May-23	TEL008	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	1	1	CFU/100mL	26-May-23	TEL017	20

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**Print Date:** June 15, 2023

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**230707**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **S18L3-003-(3)**

Taiga Sample ID: **002**

**Organics**

Hexane Extractable Material	< 2.0	2	mg/L	01-Jun-23	TEL072
Oil and Grease, visible	Non-visible			26-May-23	Visual Exam

**Subcontracted Inorganics**

Nitrate as Nitrogen	< 0.0030	0.003	mg/L	31-May-23	EPA300.1
Nitrite as N	< 0.0010	0.001	mg/L	31-May-23	EPA300.1
NO <sub>2</sub> +NO <sub>3</sub> - N	< 0.0050	0.005	mg/L	31-May-23	EPA300.1
Sulphate	61.0	0.05	mg/L	31-May-23	EPA300.1

**Subcontracted Organics**

Phenols, Total	< 0.0010	0.001	mg/L	30-May-23	AB ENV.06537
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**Trace Metals, Total**

Arsenic	0.5	0.2	µg/L	31-May-23	TEL035
Cadmium	< 0.04	0.04	µg/L	31-May-23	TEL035
Chromium	0.1	0.1	µg/L	31-May-23	TEL035
Copper	0.6	0.2	µg/L	31-May-23	TEL035
Iron	200	5	µg/L	31-May-23	TEL035
Lead	< 0.1	0.1	µg/L	31-May-23	TEL035
Mercury	< 0.01	0.01	µg/L	31-May-23	TEL035
Nickel	1.3	0.1	µg/L	31-May-23	TEL035
Silver	< 0.1	0.1	µg/L	31-May-23	TEL035
Titanium	1.4	0.1	µg/L	31-May-23	TEL035
Zinc	1.0	0.4	µg/L	31-May-23	TEL035

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Taiga Batch No.:  
**230707**

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**- CERTIFICATE OF ANALYSIS -**

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Client Sample ID: **S18L3-003-(3)**

Taiga Sample ID: **002**

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**- DATA QUALIFIERS -**

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*Data Qualifier Descriptions:*

**20**      *Possible matrix interference, reported result uncertain.*

**\* 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

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**Taiga Batch No.:**  
**230798**

## **- FINAL REPORT -**

**Prepared For:** Town of Norman Wells

**Address:** Box 5  
Norman Wells, NT  
X0E 0V0

**Attn:** Hugo Pabke

**Facsimile:** (867) 587-3724

**Final report has been reviewed and approved by:**

**Glen Hudy**  
**Quality Assurance Officer**

### **NOTES:**

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**ReportDate:** July 5, 2023  
**Print Date:** *July 5, 2023*

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

**Taiga Batch No.:**  
**230798**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID:** S18L3-003-(2)

**Taiga Sample ID:** 001

**Client Project:** S18L3-003  
**Sample Type:** Freshwater  
**Received Date:** 09-Jun-23  
**Sampling Date:** 08-Jun-23  
**Sampling Time:** 10:00  
**Location:** Norman Wells  
**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Cations by ICP-MS</u></b>						
Calcium	59.1	0.1	mg/L	14-Jun-23	TEL035	
Magnesium	16.9	0.1	mg/L	14-Jun-23	TEL035	
Potassium	0.8	0.1	mg/L	14-Jun-23	TEL035	
Sodium	10.6	0.1	mg/L	14-Jun-23	TEL035	
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	< 0.005	0.005	mg/L	13-Jun-23	TEL068	
CBOD	3	2	mg/L	07-Jun-23	TEL019	
Nitrogen, Total	0.83	0.06	mg/L	10-Jun-23	TEL066	
Organic Carbon, Total	23.7	0.5	mg/L	13-Jun-23	TEL033	
Phosphorous, Total	0.030	0.002	mg/L	15-Jun-23	TEL069	
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	451	0.4	µS/cm	12-Jun-23	TEL059	
pH	7.63		pH units	12-Jun-23	TEL058	
Solids, Total Suspended	8	3	mg/L	12-Jun-23	TEL008	
<b><u>Microbiology</u></b>						

**ReportDate:** July 5, 2023  
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**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **S18L3-003-(2)**

Taiga Sample ID: **001**

Coliforms, Fecal	2	1	CFU/100mL	09-Jun-23	TEL017
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**Organics**

Hexane Extractable Material	< 2.0	2	mg/L	12-Jun-23	TEL072
Oil and Grease, visible	Non-visible			19-Jun-23	Visual Exam

**Subcontracted Inorganics**

Nitrate as Nitrogen	< 0.0030	0.003	mg/L	14-Jun-23	EPA300.1
Nitrite as N	< 0.0010	0.001	mg/L	14-Jun-23	EPA300.1
NO <sub>2</sub> +NO <sub>3</sub> - N	< 0.0050	0.005	mg/L	14-Jun-23	EPA300.1
Sulphate	96.0	0.05	mg/L	14-Jun-23	EPA300.1

**Subcontracted Organics**

Phenols, Total	< 0.0010	0.001	mg/L	16-Jun-23	AB ENV.06537
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**Trace Metals, Total**

Arsenic	0.4	0.2	µg/L	23-Jun-23	TEL035
Cadmium	< 0.04	0.04	µg/L	23-Jun-23	TEL035
Chromium	< 0.1	0.1	µg/L	23-Jun-23	TEL035
Copper	0.3	0.2	µg/L	23-Jun-23	TEL035
Iron	76	5	µg/L	23-Jun-23	TEL035
Lead	< 0.1	0.1	µg/L	23-Jun-23	TEL035
Mercury	< 0.01	0.01	µg/L	23-Jun-23	TEL035
Nickel	1.0	0.1	µg/L	23-Jun-23	TEL035
Silver	< 0.1	0.1	µg/L	23-Jun-23	TEL035
Thallium	< 0.1	0.1	µg/L	23-Jun-23	TEL035
Zinc	1.7	0.4	µg/L	23-Jun-23	TEL035

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Tel: (867)-767-9235 Fax: (867)-920-8740

**Taiga Batch No.:**  
**230798**

## **- CERTIFICATE OF ANALYSIS -**

**Client Sample ID:** S18L3-003-(3)

**Taiga Sample ID:** 002

**Client Project:** S18L3-003

**Sample Type:** Freshwater

**Received Date:** 09-Jun-23

**Sampling Date:** 08-Jun-23

**Sampling Time:** 10:00

**Location:** Norman Wells

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Cations by ICP-MS</u></b>						
Calcium	58.5	0.1	mg/L	14-Jun-23	TEL035	
Magnesium	17.3	0.1	mg/L	14-Jun-23	TEL035	
Potassium	0.7	0.1	mg/L	14-Jun-23	TEL035	
Sodium	16.8	0.1	mg/L	14-Jun-23	TEL035	
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	0.007	0.005	mg/L	13-Jun-23	TEL068	
CBOD	3	2	mg/L	07-Jun-23	TEL019	
Nitrogen, Total	0.88	0.06	mg/L	10-Jun-23	TEL066	
Organic Carbon, Total	24.6	0.5	mg/L	13-Jun-23	TEL033	
Phosphorous, Total	0.013	0.002	mg/L	15-Jun-23	TEL069	
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	478	0.4	µS/cm	12-Jun-23	TEL059	
pH	8.09		pH units	12-Jun-23	TEL058	
Solids, Total Suspended	8	3	mg/L	12-Jun-23	TEL008	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	2	1	CFU/100mL	09-Jun-23	TEL017	

**ReportDate:** July 5, 2023

**Print Date:** July 5, 2023

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Taiga Batch No.:  
**230798**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **S18L3-003-(3)**

Taiga Sample ID: **002**

**Organics**

Hexane Extractable Material	< 2.0	2	mg/L	12-Jun-23	TEL072
Oil and Grease, visible	Non-visible			19-Jun-23	Visual Exam

**Subcontracted Inorganics**

Nitrate as Nitrogen	0.0053	0.003	mg/L	15-Jun-23	EPA300.1
Nitrite as N	< 0.0010	0.001	mg/L	15-Jun-23	EPA300.1
NO <sub>2</sub> +NO <sub>3</sub> - N	0.0053	0.005	mg/L	15-Jun-23	EPA300.1
Sulphate	95.1	0.05	mg/L	15-Jun-23	EPA300.1

**Subcontracted Organics**

Phenols, Total	< 0.0010	0.001	mg/L	16-Jun-23	AB ENV.06537
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**Trace Metals, Total**

Arsenic	0.5	0.2	µg/L	23-Jun-23	TEL035
Cadmium	< 0.04	0.04	µg/L	23-Jun-23	TEL035
Chromium	0.1	0.1	µg/L	23-Jun-23	TEL035
Copper	0.6	0.2	µg/L	23-Jun-23	TEL035
Iron	188	5	µg/L	23-Jun-23	TEL035
Lead	< 0.1	0.1	µg/L	23-Jun-23	TEL035
Mercury	< 0.01	0.01	µg/L	23-Jun-23	TEL035
Nickel	1.3	0.1	µg/L	23-Jun-23	TEL035
Silver	< 0.1	0.1	µg/L	23-Jun-23	TEL035
Thallium	< 0.1	0.1	µg/L	23-Jun-23	TEL035
Zinc	1.1	0.4	µg/L	23-Jun-23	TEL035

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**- CERTIFICATE OF ANALYSIS -**

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**Client Sample ID: S18L3-003-(3)**

**Taiga Sample ID: 002**

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**\* 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:** July 5, 2023

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**Taiga Batch No.:**  
**231083**

## **- FINAL REPORT -**

**Prepared For:** Town of Norman Wells

**Address:** Box 5  
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X0E 0V0

**Attn:** Hugo Pabke

**Facsimile:** (867) 587-3724

**Final report has been reviewed and approved by:**

**Glen Hudy**  
**Quality Assurance Officer**

### **NOTES:**

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  - Environment Canada
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- Results are based on the specific tests at the time of analysis, does not represent the conditions during sampling and relates only to the items tested.

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Tel: (867)-767-9235 Fax: (867)-920-8740

**Taiga Batch No.:**  
**231083**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID:** S18L3-003(2)

**Taiga Sample ID:** 001

**Client Project:** S18L3-003

**Sample Type:** Freshwater

**Received Date:** 14-Jul-23

**Sampling Date:** 13-Jul-23

**Sampling Time:** 10:00

**Location:** Norman Wells

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Cations by ICP-MS</u></b>						
Calcium	67.3	0.1	mg/L	24-Jul-23	TEL035	
Magnesium	19.9	0.1	mg/L	24-Jul-23	TEL035	
Potassium	1.0	0.1	mg/L	24-Jul-23	TEL035	
Sodium	18.2	0.1	mg/L	24-Jul-23	TEL035	
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	0.032	0.005	mg/L	20-Jul-23	TEL068	
CBOD	4	2	mg/L	14-Jul-23	TEL019	
Nitrogen, Total	1.50	0.06	mg/L	18-Jul-23	TEL066	
Organic Carbon, Total	32.0	0.5	mg/L	25-Jul-23	TEL033	
Phosphorous, Total	0.438	0.002	mg/L	19-Jul-23	TEL069	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO <sub>3</sub> )	227	0.4	mg/L	14-Jul-23	TEL060	
pH	7.38		pH units	14-Jul-23	TEL058	
Solids, Total Suspended	6	3	mg/L	20-Jul-23	TEL008	
<b><u>Microbiology</u></b>						

**ReportDate:** July 28, 2023

**Print Date:** July 28, 2023

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Taiga Batch No.:  
**231083**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **S18L3-003(2)**

Taiga Sample ID: **001**

Coliforms, Fecal	72	1	CFU/100mL	14-Jul-23	TEL017
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**Organics**

Hexane Extractable Material	< 2.0	2	mg/L	24-Jul-23	TEL072
Oil and Grease, visible	Non-visible			14-Jul-23	Visual Exam

**Subcontracted Inorganics**

Nitrate as Nitrogen	< 0.0030	0.003	mg/L	20-Jul-23	EPA300.1
Nitrite as N	< 0.0010	0.001	mg/L	20-Jul-23	EPA300.1
NO <sub>2</sub> +NO <sub>3</sub> - N	< 0.0050	0.005	mg/L	20-Jul-23	EPA300.1
Sulphate	21.9	0.05	mg/L	20-Jul-23	EPA300.1

**Subcontracted Organics**

Phenols, Total	< 0.0010	0.001	mg/L	20-Jul-23	AB ENV.06537
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**Trace Metals, Total**

Arsenic	1.3	0.2	µg/L	25-Jul-23	TEL035
Cadmium	< 0.04	0.04	µg/L	25-Jul-23	TEL035
Chromium	0.2	0.1	µg/L	25-Jul-23	TEL035
Copper	0.3	0.2	µg/L	25-Jul-23	TEL035
Iron	1620	5	µg/L	25-Jul-23	TEL035
Lead	< 0.1	0.1	µg/L	25-Jul-23	TEL035
Mercury	0.01	0.01	µg/L	25-Jul-23	TEL035
Nickel	1.5	0.1	µg/L	25-Jul-23	TEL035
Silver	< 0.1	0.1	µg/L	25-Jul-23	TEL035
Thallium	< 0.1	0.1	µg/L	25-Jul-23	TEL035
Zinc	1.3	0.4	µg/L	25-Jul-23	TEL035

ReportDate: July 28, 2023

Print Date: **July 28, 2023**

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

**Taiga Batch No.:**  
**231083**

## - CERTIFICATE OF ANALYSIS -

**Client Sample ID:** S18L3-003(3)

**Taiga Sample ID:** 002

**Client Project:** S18L3-003

**Sample Type:** Freshwater

**Received Date:** 14-Jul-23

**Sampling Date:** 13-Jul-23

**Sampling Time:** 10:00

**Location:** Norman Wells

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Cations by ICP-MS</u></b>						
Calcium	59.9	0.1	mg/L	24-Jul-23	TEL035	
Magnesium	23.8	0.1	mg/L	24-Jul-23	TEL035	
Potassium	1.0	0.1	mg/L	24-Jul-23	TEL035	
Sodium	22.2	0.1	mg/L	24-Jul-23	TEL035	
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	0.014	0.005	mg/L	20-Jul-23	TEL068	
CBOD	3	2	mg/L	14-Jul-23	TEL019	
Nitrogen, Total	1.52	0.06	mg/L	18-Jul-23	TEL066	
Organic Carbon, Total	29.0	0.5	mg/L	25-Jul-23	TEL033	
Phosphorous, Total	0.029	0.002	mg/L	19-Jul-23	TEL069	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO <sub>3</sub> )	166	0.4	mg/L	14-Jul-23	TEL060	
pH	8.13		pH units	14-Jul-23	TEL058	
Solids, Total Suspended	8	3	mg/L	20-Jul-23	TEL008	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	142	1	CFU/100mL	14-Jul-23	TEL017	

**ReportDate:** July 28, 2023

**Print Date:** July 28, 2023

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

Taiga Batch No.:  
**231083**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **S18L3-003(3)**

Taiga Sample ID: **002**

**Organics**

Hexane Extractable Material	< 2.0	2	mg/L	24-Jul-23	TEL072
Oil and Grease, visible	Non-visible			14-Jul-23	Visual Exam

**Subcontracted Inorganics**

Nitrate as Nitrogen	0.105	0.003	mg/L	20-Jul-23	EPA300.1
Nitrite as N	0.0014	0.001	mg/L	20-Jul-23	EPA300.1
NO <sub>2</sub> +NO <sub>3</sub> - N	0.106	0.005	mg/L	20-Jul-23	EPA300.1
Sulphate	86.9	0.05	mg/L	20-Jul-23	EPA300.1

**Subcontracted Organics**

Phenols, Total	< 0.0010	0.001	mg/L	20-Jul-23	AB ENV.06537
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**Trace Metals, Total**

Arsenic	1.3	0.2	µg/L	25-Jul-23	TEL035
Cadmium	< 0.04	0.04	µg/L	25-Jul-23	TEL035
Chromium	0.3	0.1	µg/L	25-Jul-23	TEL035
Copper	1.0	0.2	µg/L	25-Jul-23	TEL035
Iron	373	5	µg/L	25-Jul-23	TEL035
Lead	0.2	0.1	µg/L	25-Jul-23	TEL035
Mercury	0.01	0.01	µg/L	25-Jul-23	TEL035
Nickel	2.0	0.1	µg/L	25-Jul-23	TEL035
Silver	< 0.1	0.1	µg/L	25-Jul-23	TEL035
Thallium	< 0.1	0.1	µg/L	25-Jul-23	TEL035
Zinc	1.5	0.4	µg/L	25-Jul-23	TEL035

ReportDate: July 28, 2023

Print Date: **July 28, 2023**

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

**Taiga Batch No.:**  
**231083**

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**- CERTIFICATE OF ANALYSIS -**

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**Client Sample ID:** **S18L3-003(3)**

**Taiga Sample ID:** **002**

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**\* 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:** July 28, 2023

**Print Date:** *July 28, 2023*

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

**Taiga Batch No.:**  
**231242**

## **- FINAL REPORT -**

**Prepared For:** Town of Norman Wells

**Address:** Box 5  
Norman Wells, NT  
X0E 0V0

**Attn:** Hugo Pabke

**Facsimile:** (867) 587-3724

**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
  - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
  - Environment Canada
  - 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.
- Results are based on the specific tests at the time of analysis, does not represent the conditions during sampling and relates only to the items tested.

**ReportDate:** September 20, 2023

**Print Date:** *September 20, 2023*

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

**Taiga Batch No.:**  
**231242**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID:** S18L3-003-(02)

**Taiga Sample ID:** 001

**Client Project:** S18L3-003

**Sample Type:** Freshwater

**Received Date:** 04-Aug-23

**Sampling Date:** 03-Aug-23

**Sampling Time:** 10:30

**Location:** Norman Wells

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Cations by ICP-MS</u></b>						
Calcium	64.1	0.1	mg/L	08-Aug-23	TEL035	
Magnesium	21.0	0.1	mg/L	08-Aug-23	TEL035	
Potassium	1.3	0.1	mg/L	08-Aug-23	TEL035	
Sodium	21.8	0.1	mg/L	08-Aug-23	TEL035	
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	0.019	0.005	mg/L	11-Aug-23	TEL068	
CBOD	3	2	mg/L	04-Aug-23	TEL019	
Nitrogen, Total	1.50	0.06	mg/L	10-Aug-23	TEL066	
Organic Carbon, Total	35.9	0.5	mg/L	10-Aug-23	TEL033	
Phosphorous, Total	0.237	0.002	mg/L	10-Aug-23	TEL069	
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	235	0.4	µS/cm	11-Aug-23	TEL059	
pH	7.45		pH units	11-Aug-23	TEL058	11
Solids, Total Suspended	< 3	3	mg/L	13-Sep-23	TEL008	
<b><u>Major Ions</u></b>						

**ReportDate:** September 20, 2023

**Print Date:** September 20, 2023

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

Taiga Batch No.:  
**231242**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **S18L3-003-(02)**

Taiga Sample ID: **001**

Nitrate as Nitrogen	< 0.01	0.01	mg/L	05-Aug-23	TEL055
Nitrate+Nitrite as Nitrogen	< 0.01	0.01	mg/L	05-Aug-23	TEL055
Nitrite as Nitrogen	< 0.01	0.01	mg/L	05-Aug-23	TEL055
Sulphate	8	1	mg/L	05-Aug-23	TEL055

**Microbiology**

Coliforms, Fecal	14	1	CFU/100mL	04-Aug-23	TEL017
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**Organics**

Hexane Extractable Material	< 2.0	2	mg/L	14-Aug-23	TEL072
Oil and Grease, visible	non-visible			20-Sep-23	Visual Exam

**Subcontracted Organics**

Phenols, Total	< 0.0010	0.001	mg/L	09-Aug-23	AB ENV.06537
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**Trace Metals, Total**

Arsenic	0.8	0.2	µg/L	15-Sep-23	TEL035
Cadmium	< 0.04	0.04	µg/L	15-Sep-23	TEL035
Chromium	< 0.1	0.1	µg/L	15-Sep-23	TEL035
Copper	< 0.2	0.2	µg/L	15-Sep-23	TEL035
Iron	558	5	µg/L	15-Sep-23	TEL035
Lead	< 0.1	0.1	µg/L	15-Sep-23	TEL035
Mercury	0.02	0.01	µg/L	15-Sep-23	TEL035
Nickel	1.0	0.1	µg/L	15-Sep-23	TEL035
Silver	< 0.1	0.1	µg/L	15-Sep-23	TEL035
Thallium	< 0.1	0.1	µg/L	15-Sep-23	TEL035
Zinc	< 0.4	0.4	µg/L	15-Sep-23	TEL035

ReportDate: September 20, 2023

Print Date: *September 20, 2023*

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

Taiga Batch No.:  
**231242**

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**- CERTIFICATE OF ANALYSIS -**

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Client Sample ID: **S18L3-003-(02)**

Taiga Sample ID: **001**

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**- DATA QUALIFIERS -**

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*Data Qualifier Descriptions:*

**11**      *Holding time exceeded before sample analysis.*

**\* 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: September 20, 2023

Print Date: *September 20, 2023*

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

**Taiga Batch No.:**  
**231373**

## **- FINAL REPORT -**

**Prepared For:** Town of Norman Wells

**Address:** Box 5  
Norman Wells, NT  
X0E 0V0

**Attn:** Hugo Pabke

**Facsimile:** (867) 587-3724

**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
  - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
  - Environment Canada
  - 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.
- Results are based on the specific tests at the time of analysis, does not represent the conditions during sampling and relates only to the items tested.

**ReportDate:** October 6, 2023

**Print Date:** *October 10, 2023*

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

**Taiga Batch No.:**  
**231373**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID:** S18L3-003-(02)

**Taiga Sample ID:** 001

**Client Project:** S18L3-003

**Sample Type:** Freshwater

**Received Date:** 22-Sep-23

**Sampling Date:** 21-Sep-23

**Sampling Time:** 10:00

**Location:** Norman Wells

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Cations by ICP-MS</u></b>						
Calcium	62.1	0.1	mg/L	28-Sep-23	TEL035	
Magnesium	20.8	0.1	mg/L	28-Sep-23	TEL035	
Potassium	2.4	0.1	mg/L	28-Sep-23	TEL035	
Sodium	29.7	0.1	mg/L	28-Sep-23	TEL035	
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	0.014	0.005	mg/L	27-Sep-23	TEL068	
CBOD	< 2	2	mg/L	22-Sep-23	TEL019	
Nitrogen, Total	1.26	0.06	mg/L	27-Sep-23	TEL066	
Organic Carbon, Total	29.6	0.5	mg/L	27-Sep-23	TEL033	
Phosphorous, Total	0.047	0.002	mg/L	28-Sep-23	TEL069	
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	527	0.4	µS/cm	22-Sep-23	TEL059	
pH	7.41		pH units	22-Sep-23	TEL058	
Solids, Total Suspended	< 3	3	mg/L	26-Sep-23	TEL008	

**Major Ions**

**ReportDate:** October 6, 2023

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

**Taiga Batch No.:**  
**231373**

## **- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: S18L3-003-(02)**

**Taiga Sample ID: 001**

Nitrate as Nitrogen	0.02	0.01	mg/L	22-Sep-23	TEL055
Nitrate+Nitrite as Nitrogen	0.02	0.01	mg/L	22-Sep-23	TEL055
Nitrite as Nitrogen	< 0.01	0.01	mg/L	22-Sep-23	TEL055
Sulphate	15	1	mg/L	22-Sep-23	TEL055

### **Microbiology**

Coliforms, Fecal	2	1	CFU/100mL	22-Sep-23	TEL017
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### **Organics**

Hexane Extractable Material	< 2.0	2	mg/L	25-Sep-23	TEL072
Oil and Grease, visible	Non-visible			22-Sep-23	Visual Exam

### **Subcontracted Organics**

Phenols, Total	< 0.0010	0.001	mg/L	29-Sep-23	AB ENV.06537
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### **Trace Metals, Total**

Arsenic	0.6	0.2	µg/L	04-Oct-23	TEL035
Cadmium	< 0.04	0.04	µg/L	04-Oct-23	TEL035
Chromium	< 0.1	0.1	µg/L	04-Oct-23	TEL035
Copper	< 0.2	0.2	µg/L	04-Oct-23	TEL035
Iron	226	5	µg/L	04-Oct-23	TEL035
Lead	< 0.1	0.1	µg/L	04-Oct-23	TEL035
Mercury	< 0.01	0.01	µg/L	04-Oct-23	TEL035
Nickel	0.7	0.1	µg/L	04-Oct-23	TEL035
Silver	< 0.1	0.1	µg/L	04-Oct-23	TEL035
Thallium	< 0.1	0.1	µg/L	04-Oct-23	TEL035
Zinc	0.9	0.4	µg/L	04-Oct-23	TEL035

**ReportDate:** October 6, 2023

**Print Date:** *October 10, 2023*

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

**Taiga Batch No.:**  
**231373**

## - CERTIFICATE OF ANALYSIS -

**Client Sample ID:** S18L3-003-(03)

**Taiga Sample ID:** 002

**Client Project:** S18L3-003

**Sample Type:** Freshwater

**Received Date:** 22-Sep-23

**Sampling Date:** 21-Sep-23

**Sampling Time:** 10:00

**Location:** Norman Wells

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Cations by ICP-MS</u></b>						
Calcium	72.2	0.1	mg/L	28-Sep-23	TEL035	
Magnesium	30.9	0.1	mg/L	28-Sep-23	TEL035	
Potassium	1.8	0.1	mg/L	28-Sep-23	TEL035	
Sodium	28.2	0.1	mg/L	28-Sep-23	TEL035	
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	0.019	0.005	mg/L	27-Sep-23	TEL068	
CBOD	< 2	2	mg/L	22-Sep-23	TEL019	
Nitrogen, Total	1.36	0.06	mg/L	27-Sep-23	TEL066	
Organic Carbon, Total	33.3	0.5	mg/L	27-Sep-23	TEL033	
Phosphorous, Total	0.010	0.002	mg/L	28-Sep-23	TEL069	
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	646	0.4	µS/cm	22-Sep-23	TEL059	
pH	7.90		pH units	22-Sep-23	TEL058	
Solids, Total Suspended	< 3	3	mg/L	26-Sep-23	TEL008	
<b><u>Major Ions</u></b>						
Nitrate as Nitrogen	0.03	0.01	mg/L	22-Sep-23	TEL055	

**ReportDate:** October 6, 2023

**Print Date:** October 10, 2023

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

**Taiga Batch No.:**  
**231373**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: S18L3-003-(03)**

**Taiga Sample ID: 002**

Nitrate+Nitrite as Nitrogen	0.03	0.01	mg/L	22-Sep-23	TEL055
Nitrite as Nitrogen	< 0.01	0.01	mg/L	22-Sep-23	TEL055
Sulphate	79	1	mg/L	22-Sep-23	TEL055

**Microbiology**

Coliforms, Fecal	5	1	CFU/100mL	22-Sep-23	TEL017
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**Organics**

Hexane Extractable Material	< 2.0	2	mg/L	05-Oct-23	TEL072
Oil and Grease, visible	Non-visible			22-Sep-23	Visual Exam

**Subcontracted Organics**

Phenols, Total	< 0.0010	0.001	mg/L	29-Sep-23	AB ENV.06537
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**Trace Metals, Total**

Arsenic	0.7	0.2	µg/L	04-Oct-23	TEL035
Cadmium	< 0.04	0.04	µg/L	04-Oct-23	TEL035
Chromium	< 0.1	0.1	µg/L	04-Oct-23	TEL035
Copper	0.9	0.2	µg/L	04-Oct-23	TEL035
Iron	58	5	µg/L	04-Oct-23	TEL035
Lead	< 0.1	0.1	µg/L	04-Oct-23	TEL035
Mercury	< 0.01	0.01	µg/L	04-Oct-23	TEL035
Nickel	1.7	0.1	µg/L	04-Oct-23	TEL035
Silver	< 0.1	0.1	µg/L	04-Oct-23	TEL035
Thallium	< 0.1	0.1	µg/L	04-Oct-23	TEL035
Zinc	0.9	0.4	µg/L	04-Oct-23	TEL035

**ReportDate:** October 6, 2023

**Print Date:** *October 10, 2023*

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

Taiga Batch No.:  
**231373**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **S18L3-003-(1)**

Taiga Sample ID: **003**

Client Project: S18L3-003

Sample Type: Freshwater

Received Date: 22-Sep-23

Sampling Date: 21-Sep-23

Sampling Time: 10:00

Location: Norman Wells

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
CBOD	3	2	mg/L	22-Sep-23	TEL019	
Nitrogen, Total	1.95	0.06	mg/L	27-Sep-23	TEL066	
Organic Carbon, Total	29.2	0.5	mg/L	27-Sep-23	TEL033	
Phosphorous, Total	0.088	0.002	mg/L	28-Sep-23	TEL069	
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	440	0.4	µS/cm	22-Sep-23	TEL059	
pH	7.82		pH units	22-Sep-23	TEL058	
Solids, Total Suspended	4	3	mg/L	26-Sep-23	TEL008	
<b><u>Major Ions</u></b>						
Nitrate as Nitrogen	0.02	0.01	mg/L	22-Sep-23	TEL055	
Nitrate+Nitrite as Nitrogen	0.02	0.01	mg/L	22-Sep-23	TEL055	
Nitrite as Nitrogen	< 0.01	0.01	mg/L	22-Sep-23	TEL055	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	1	1	CFU/100mL	22-Sep-23	TEL017	
<b><u>Organics</u></b>						
Hexane Extractable Material	< 2.0	2	mg/L	05-Oct-23	TEL072	

ReportDate: October 6, 2023

Print Date: **October 10, 2023**

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

**Taiga Batch No.:**  
**231373**

## **- CERTIFICATE OF ANALYSIS -**

---

**Client Sample ID:** **S18L3-003-(1)**

**Taiga Sample ID:** **003**

Oil and Grease, visible

Non-visible

22-Sep-23 Visual Exam

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**Taiga Batch No.:**  
**231373**

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**- CERTIFICATE OF ANALYSIS -**

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**Client Sample ID: S18L3-003-(1)**

**Taiga Sample ID: 003**

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**\* 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

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