



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:

A handwritten signature in black ink, appearing to read "Glen Hudy".

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 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
<u>Organics</u>					
Hexane Extractable Material	< 2.0	2	mg/L	01-Jun-23	TEL072
Oil and Grease, visible	Non-visible			26-May-23	Visual Exam
<u>Subcontracted Inorganics</u>					
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 ₂ +NO ₃ - N	< 0.0050	0.005	mg/L	31-May-23	EPA300.1
Sulphate	48.3	0.05	mg/L	31-May-23	EPA300.1
<u>Subcontracted Organics</u>					
Phenols, Total	< 0.0010	0.001	mg/L	30-May-23	AB ENV.06537
<u>Trace Metals, Total</u>					
Arsenic	0.4	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	0.4	0.2	µg/L	31-May-23	TEL035
Iron	118	5	µg/L	31-May-23	TEL035
Lead	0.2	0.1	µg/L	31-May-23	TEL035
Mercury	< 0.01	0.01	µg/L	31-May-23	TEL035
Nickel	1.1	0.1	µg/L	31-May-23	TEL035
Silver	< 0.1	0.1	µg/L	31-May-23	TEL035
Titanium	0.2	0.1	µg/L	31-May-23	TEL035
Zinc	1.5	0.4	µg/L	31-May-23	TEL035

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- 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
<u>Cations by ICP-MS</u>						
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	
<u>Inorganics - Nutrients</u>						
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	
<u>Inorganics - Physicals</u>						
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	
<u>Microbiology</u>						
Coliforms, Fecal	1	1	CFU/100mL	26-May-23	TEL017	20

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- 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 ₂ +NO ₃ - 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 Sample ID: **002**

- DATA QUALIFIERS -

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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