



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

**Taiga Batch No.:**  
**241252**

**- FINAL REPORT -**

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**Prepared For:** Hamlet of Fort Providence

**Address:** General Delivery  
Fort Providence, NT  
X0E 0L0

**Attn:** Susan Christie

**Facsimile:** (867) 699-4624

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

A handwritten signature in black ink, appearing to read 'Bradley Koswan'.

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**Bradley Koswan**  
A/Lab Manager

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**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.
- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

**ReportDate:** 3-Sep-24

**Print Date:** 3-Sep-24

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Taiga Batch No.:  
**241252**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **2016-3 'Pond'**

Taiga Sample ID: **001**

**Client Project:**

**Sample Type:** Water

**Received Date:** 19-Aug-24

**Sampling Date:** 19-Aug-24

**Sampling Time:**

**Location:**

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Cations by ICP-MS</u></b>						
Calcium	94.0	0.1	mg/L	23-Aug-24	TEL035	
Potassium	32.2	0.1	mg/L	23-Aug-24	TEL035	
Sodium	56.0	0.1	mg/L	23-Aug-24	TEL035	
<b><u>Inorganics - Nutrients</u></b>						
Ortho-Phosphate as Phosphorus	0.010	0.002	mg/L	23-Aug-24	TEL069	
Phosphorous, Total	0.061	0.002	mg/L	22-Aug-24	TEL069	
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	1110	0.4	µS/cm	20-Aug-24	TEL059	
pH	8.12		pH units	20-Aug-24	TEL058	233
Solids, Total Suspended	< 3	3	mg/L	23-Aug-24	TEL008	
<b><u>Major Ions</u></b>						
Sulphate	245	11	mg/L	22-Aug-24	TEL055	210
<b><u>Organics</u></b>						
Benzene	< 2.00	2	µg/L	29-Aug-24	TEL037	
Ethylbenzene	< 2.00	2	µg/L	29-Aug-24	TEL037	

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Hydrocarbons, Total Purgeable	< 0.3	0.3	mg/L	29-Aug-24	TEL044
Toluene	< 2.00	2	µg/L	29-Aug-24	TEL037
Xylenes	< 2.00	2	µg/L	29-Aug-24	TEL037
<b><u>Subcontracted Organics</u></b>					
F2: C10-C16	< 0.10	0.1	mg/L	29-Aug-24	EPA3510
F3: C16-C34	< 0.25	0.25	mg/L	29-Aug-24	EPA3510
F4: C34-C50	< 0.25	0.25	mg/L	29-Aug-24	EPA3510
Hexane Extractable Material	< 5.0	5	mg/L	29-Aug-24	APHA 5520B
Phenols, Total	< 0.0010	0.001	mg/L	23-Aug-24	AB ENV.06537
<b><u>Trace Metals, Total</u></b>					
Aluminum	14.3	0.6	µg/L	23-Aug-24	TEL035
Antimony	0.6	0.1	µg/L	23-Aug-24	TEL035
Arsenic	2.6	0.2	µg/L	23-Aug-24	TEL035
Barium	131	0.1	µg/L	23-Aug-24	TEL035
Beryllium	< 0.1	0.1	µg/L	23-Aug-24	TEL035
Bismuth	< 0.2	0.2	µg/L	23-Aug-24	TEL035
Boron	286	0.9	µg/L	23-Aug-24	TEL035
Cadmium	< 0.04	0.04	µg/L	23-Aug-24	TEL035
Cesium	< 0.1	0.1	µg/L	23-Aug-24	TEL035
Chromium	0.1	0.1	µg/L	23-Aug-24	TEL035
Cobalt	0.2	0.1	µg/L	23-Aug-24	TEL035
Copper	0.2	0.2	µg/L	23-Aug-24	TEL035
Iron	203	5	µg/L	23-Aug-24	TEL035
Lead	< 0.1	0.1	µg/L	23-Aug-24	TEL035
Lithium	17.2	0.2	µg/L	23-Aug-24	TEL035

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Manganese	174	0.1	µg/L	23-Aug-24	TEL035
Mercury	0.03	0.01	µg/L	23-Aug-24	TEL035
Molybdenum	1.0	0.1	µg/L	23-Aug-24	TEL035
Nickel	1.7	0.1	µg/L	23-Aug-24	TEL035
Rubidium	4.6	0.1	µg/L	23-Aug-24	TEL035
Selenium	< 0.3	0.3	µg/L	23-Aug-24	TEL035
Silver	0.1	0.1	µg/L	23-Aug-24	TEL035
Strontium	495	0.1	µg/L	23-Aug-24	TEL035
Thallium	< 0.1	0.1	µg/L	23-Aug-24	TEL035
Tin	< 0.1	0.1	µg/L	23-Aug-24	TEL035
Titanium	0.6	0.1	µg/L	23-Aug-24	TEL035
Uranium	0.7	0.1	µg/L	23-Aug-24	TEL035
Vanadium	0.3	0.1	µg/L	23-Aug-24	TEL035
Zinc	4.0	0.4	µg/L	23-Aug-24	TEL035

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Taiga Batch No.:  
**241252**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **1412-2 'Lagoon Cell #5'**

Taiga Sample ID: **002**

**Client Project:**

**Sample Type:** Water

**Received Date:** 19-Aug-24

**Sampling Date:** 19-Aug-24

**Sampling Time:**

**Location:**

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	0.570	0.005	mg/L	20-Aug-24	TEL068	
CBOD	27	2	mg/L	19-Aug-24	TEL019	
Phosphorous, Total	4.58	0.008	mg/L	22-Aug-24	TEL069	210
<b><u>Inorganics - Physicals</u></b>						
pH	9.85		pH units	20-Aug-24	TEL058	233
Solids, Total Suspended	213	3	mg/L	28-Aug-24	TEL008	
<b><u>Major Ions</u></b>						
Nitrate as Nitrogen	0.05	0.01	mg/L	22-Aug-24	TEL055	
Nitrite as Nitrogen	0.14	0.01	mg/L	22-Aug-24	TEL055	
<b><u>Microbiology</u></b>						
Coliforms, Fecal		1	CFU/100mL		TEL017	16
<b><u>Subcontracted Organics</u></b>						
Hexane Extractable Material	< 5.0	5	mg/L	29-Aug-24	APHA 5520B	

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Taiga Sample ID: **002**

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### - DATA QUALIFIERS -

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*Data Qualifier Descriptions:*

- 16**      *Test requested but no sample bottle received*
- 210**     *Detection limit adjusted for required dilution.*
- 233**     *Equipment failure; sample analyzed past hold time.*

**\* 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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