



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

**Taiga Batch No.:**  
**221645**

**- 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:**

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**Glen Hudy**  
Quality Assurance Officer

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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:** August-29-22

**Print Date:** *August-29-22*

*Page 1 of 8*



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

Taiga Batch No.:  
**221645**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **2016-1**

Taiga Sample ID: **001**

**Client Project:**

**Sample Type:** Water

**Received Date:** 11-Aug-22

**Sampling Date:** 11-Aug-22

**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	0.044	0.005	mg/L	17-Aug-22	TEL068	
CBOD	18	2	mg/L	11-Aug-22	TEL019	
Phosphorous, Total	1.35	0.002	mg/L	18-Aug-22	TEL069	
<b><u>Inorganics - Physicals</u></b>						
pH	6.62		pH units	11-Aug-22	TEL058	
Solids, Total Suspended		3	mg/L	12-Aug-22	TEL008	60
<b><u>Major Ions</u></b>						
Nitrate as Nitrogen	< 0.01	0.01	mg/L	12-Aug-22	TEL055	
Nitrite as Nitrogen	< 0.01	0.01	mg/L	12-Aug-22	TEL055	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	240	10	CFU/100mL	11-Aug-22	TEL017	
<b><u>Organics</u></b>						
Hexane Extractable Material	2.0	2	mg/L	12-Aug-22	TEL072	

**ReportDate:** August-29-22

**Print Date:** August-29-22

Page 2 of 8



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Taiga Batch No.:  
**221645**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **2016-2**

Taiga Sample ID: **002**

**Client Project:**

**Sample Type:** Water

**Received Date:** 11-Aug-22

**Sampling Date:** 11-Aug-22

**Sampling Time:**

**Location:**

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Cations by ICP-MS</u></b>						
Calcium	727	1.1	mg/L	18-Aug-22	TEL035	
Magnesium	197	1.1	mg/L	18-Aug-22	TEL035	
Potassium	249	1.1	mg/L	18-Aug-22	TEL035	
Sodium	751	1.1	mg/L	18-Aug-22	TEL035	
<b><u>Inorganics - Nutrients</u></b>						
Ortho-Phosphate as Phosphorus	0.528	0.002	mg/L	12-Aug-22	TEL069	
Phosphorous, Total	1.71	0.002	mg/L	18-Aug-22	TEL069	
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	7160	0.4	µS/cm	11-Aug-22	TEL059	
pH	6.16		pH units	11-Aug-22	TEL058	
Solids, Total Suspended	170	3	mg/L	12-Aug-22	TEL008	
<b><u>Major Ions</u></b>						
Sulphate	< 1	1	mg/L	13-Aug-22	TEL055	
<b><u>Organics</u></b>						
Benzene	< 2.0	2	ug/L	16-Aug-22	TEL075	
Ethylbenzene	< 2.0	2	ug/L	16-Aug-22	TEL075	

**ReportDate:** August-29-22

**Print Date:** August-29-22



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**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: 2016-2**

**Taiga Sample ID: 002**

Hexane Extractable Material	13.5	2	mg/L	15-Aug-22	TEL072
Hydrocarbons, Volatile	0.3	0.3	mg/L	16-Aug-22	TEL076
Toluene	36.3	2	ug/L	16-Aug-22	TEL075
Xylenes	< 2.0	2	ug/L	16-Aug-22	TEL075
<b><u>Subcontracted Organics</u></b>					
F2: C10-C16	0.60	0.1	mg/L	25-Aug-22	EPA3510
F3: C16-C34	1.24	0.25	mg/L	25-Aug-22	EPA3510
F4: C34-C50	< 0.25	0.25	mg/L	25-Aug-22	EPA3510
Phenols, Total	0.8320	0.02	mg/L	22-Aug-22	AB ENV.06537
<b><u>Trace Metals, Total</u></b>					
Cadmium	0.3	0.04	µg/L	19-Aug-22	TEL035
Chromium	22.5	0.1	µg/L	19-Aug-22	TEL035
Copper	13.4	0.2	µg/L	19-Aug-22	TEL035
Iron	92400	5	µg/L	19-Aug-22	TEL035
Lead	8.0	0.1	µg/L	19-Aug-22	TEL035
Manganese	5180	0.1	µg/L	19-Aug-22	TEL035
Mercury	0.05	0.01	µg/L	19-Aug-22	TEL035
Nickel	61.9	0.1	µg/L	19-Aug-22	TEL035
Zinc	193	0.4	µg/L	19-Aug-22	TEL035

**ReportDate:** August-29-22

**Print Date:** *August-29-22*

*Page 4 of 8*



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Taiga Batch No.:  
**221645**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **2016-3**

Taiga Sample ID: **003**

**Client Project:**

**Sample Type:** Water

**Received Date:** 11-Aug-22

**Sampling Date:** 11-Aug-22

**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	86.7	0.1	mg/L	18-Aug-22	TEL035	
Magnesium	38.5	0.1	mg/L	18-Aug-22	TEL035	
Potassium	18.9	0.1	mg/L	18-Aug-22	TEL035	
Sodium	47.2	0.1	mg/L	18-Aug-22	TEL035	
<b><u>Inorganics - Nutrients</u></b>						
Ortho-Phosphate as Phosphorus	0.003	0.002	mg/L	12-Aug-22	TEL069	
Phosphorous, Total	0.048	0.002	mg/L	18-Aug-22	TEL069	
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	908	0.4	µS/cm	11-Aug-22	TEL059	
pH	7.60		pH units	11-Aug-22	TEL058	
Solids, Total Suspended	6	3	mg/L	12-Aug-22	TEL008	
<b><u>Major Ions</u></b>						
Sulphate	56	1	mg/L	13-Aug-22	TEL055	
<b><u>Organics</u></b>						
Benzene	< 2.0	2	ug/L	16-Aug-22	TEL075	
Ethylbenzene	< 2.0	2	ug/L	16-Aug-22	TEL075	

**ReportDate:** August-29-22

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**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: 2016-3**

**Taiga Sample ID: 003**

F2: C10-C16	< 0.2	0.2	mg/L	22-Aug-22	TEL067
F3: C16-C34	< 0.2	0.2	mg/L	22-Aug-22	TEL067
F4: C34-C50	< 0.2	0.2	mg/L	22-Aug-22	TEL067
Hexane Extractable Material	< 2.0	2	mg/L	15-Aug-22	TEL072
Hydrocarbons, Total Extractable	< 0.2	0.2	mg/L	22-Aug-22	TEL067
Hydrocarbons, Volatile	< 0.3	0.3	mg/L	16-Aug-22	TEL076
Toluene	< 2.0	2	ug/L	16-Aug-22	TEL075
Xylenes	< 2.0	2	ug/L	16-Aug-22	TEL075
<b><u>Subcontracted Organics</u></b>					
Phenols, Total	< 0.0010	0.001	mg/L	22-Aug-22	AB ENV.06537
<b><u>Trace Metals, Total</u></b>					
Cadmium	< 0.0	0.04	µg/L	19-Aug-22	TEL035
Chromium	0.1	0.1	µg/L	19-Aug-22	TEL035
Copper	0.4	0.2	µg/L	19-Aug-22	TEL035
Iron	164	5	µg/L	19-Aug-22	TEL035
Lead	< 0.1	0.1	µg/L	19-Aug-22	TEL035
Manganese	143	0.1	µg/L	19-Aug-22	TEL035
Mercury	0.02	0.01	µg/L	19-Aug-22	TEL035
Nickel	1.0	0.1	µg/L	19-Aug-22	TEL035
Zinc	0.8	0.4	µg/L	19-Aug-22	TEL035

**ReportDate:** August-29-22

**Print Date:** August-29-22

*Page 6 of 8*



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Taiga Batch No.:  
**221645**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **1412-2**

Taiga Sample ID: **004**

**Client Project:**

**Sample Type:** Water

**Received Date:** 11-Aug-22

**Sampling Date:** 11-Aug-22

**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	0.036	0.005	mg/L	17-Aug-22	TEL068	
CBOD	31	2	mg/L	11-Aug-22	TEL019	
Phosphorous, Total	2.12	0.002	mg/L	18-Aug-22	TEL069	
<b><u>Inorganics - Physicals</u></b>						
pH	9.36		pH units	11-Aug-22	TEL058	
Solids, Total Suspended	78	3	mg/L	12-Aug-22	TEL008	
<b><u>Major Ions</u></b>						
Nitrate as Nitrogen	< 0.01	0.01	mg/L	13-Aug-22	TEL055	
Nitrite as Nitrogen	< 0.01	0.01	mg/L	13-Aug-22	TEL055	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	10	10	CFU/100mL	11-Aug-22	TEL017	
<b><u>Organics</u></b>						
Hexane Extractable Material	2.7	2	mg/L	15-Aug-22	TEL072	

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Taiga Batch No.:  
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**- CERTIFICATE OF ANALYSIS -**

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Client Sample ID: **1412-2**

Taiga Sample ID: **004**

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**- DATA QUALIFIERS -**

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*Data Qualifier Descriptions:*

**60**      *Unable to process sample due to large volume of sediments.*

**\* 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: August-29-22

Print Date: *August-29-22*

*Page 8 of 8*