

**From:** [taiga](#)  
**To:** [Susan Christie \(sao@fortprovidence.ca\)](mailto:sao@fortprovidence.ca); [Erica Janes](#); [Wendy Bidwell](#)  
**Subject:** Emailing: 210899 - 2122 - FINAL REPORT, 210899 - 2122 - FINAL REPORT  
**Date:** Friday, July 23, 2021 9:37:42 AM  
**Attachments:** [210899 - 2122 - FINAL REPORT.pdf](#)  
[210899 - 2122 - FINAL REPORT.xls](#)

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Susan,

Please see attached for final report 210899.

Have a good day.

Mársı | Kinanāskomitin | Thank you | Merci | Hai' | Quana | Qujannamiik | Quyanainni | Máhsı | Máhsı | Mahsi  
Glen Hudy  
Chemist, Quality Assurance  
Environmental Protection and Waste Management  
Environment and Natural Resources  
Government of the Northwest Territories

Taiga Environmental Laboratory  
PO Box 1320  
Yellowknife, NT X1A 2L9

Phone: 867-767-9235 Ext. 53154  
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[www.enr.gov.nt.ca](http://www.enr.gov.nt.ca)

Survey: <https://www.surveymonkey.com/r/TaigaLab>

Your message is ready to be sent with the following file or link attachments:

210899 - 2122 - FINAL REPORT  
210899 - 2122 - FINAL REPORT

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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.:**  
**210899**

**- 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.

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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.:  
**210899**

### - CERTIFICATE OF ANALYSIS -

Client Sample ID: **2016-3**

Taiga Sample ID: **001**

**Client Project:**

**Sample Type:** Water

**Received Date:** 18-Jun-21

**Sampling Date:** 17-Jun-21

**Sampling Time:**

**Location:**

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ortho-Phosphate as Phosphorus	0.007	0.002	mg/L	18-Jun-21	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	858	0.4	µS/cm	18-Jun-21	SM2510:B	
pH	7.80		pH units	18-Jun-21	SM4500-H:B	
Solids, Total Suspended	18	3	mg/L	23-Jun-21	SM2540:D	
<b><u>Major Ions</u></b>						
Calcium	93.1	0.1	mg/L	18-Jun-21	SM4110:B	
Magnesium	43.5	0.1	mg/L	18-Jun-21	SM4110:B	
Potassium	17.9	0.1	mg/L	18-Jun-21	SM4110:B	
Sodium	39.7	0.1	mg/L	18-Jun-21	SM4110:B	
Sulphate	62	1	mg/L	18-Jun-21	SM4110:B	
<b><u>Organics</u></b>						
Hexane Extractable Material	< 2.0	2.0	mg/L	24-Jun-21	EPA1664A	
<b><u>Subcontracted Organics</u></b>						
Benzene	< 0.00050	0.0005	mg/L	29-Jul-21	EPA 5021	

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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.:**  
**210899**

## - CERTIFICATE OF ANALYSIS -

**Client Sample ID: 2016-3**

**Taiga Sample ID: 001**

Ethylbenzene	< 0.00050	0.0005	mg/L	29-Jul-21	EPA 5021
F1: C6-C10	< 0.10	0.1	mg/L	29-Jul-21	CCME CWS PHC
F2: C10-C16	< 0.30	0.3	mg/L	30-Jul-21	EPA3510
F3: C16-C34	< 0.30	0.3	mg/L	30-Jul-21	EPA3510
F4: C34-C50	< 0.30	0.3	mg/L	30-Jul-21	EPA3510
Phenols, Total		0.001	mg/L		AB ENV.06537
Toluene	< 0.00050	0.0005	mg/L	29-Jul-21	EPA 5021
Xylenes	< 0.00050	0.0005	mg/L	29-Jul-21	EPA 5021

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**Trace Metals, Total**

Cadmium	< 0.1	0.1	µg/L	24-Jun-21	EPA200.8
Chromium	0.2	0.1	µg/L	24-Jun-21	EPA200.8
Cobalt	0.2	0.1	µg/L	24-Jun-21	EPA200.8
Copper	0.4	0.2	µg/L	24-Jun-21	EPA200.8
Iron	322	5	µg/L	24-Jun-21	EPA200.8
Lead	0.1	0.1	µg/L	24-Jun-21	EPA200.8
Manganese	155	0.1	µg/L	24-Jun-21	EPA200.8
Mercury	< 0.01	0.01	µg/L	24-Jun-21	EPA200.8
Nickel	1.3	0.1	µg/L	24-Jun-21	EPA200.8
Zinc	< 5.0	5	µg/L	24-Jun-21	EPA200.8

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Taiga Batch No.:  
**210899**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **2016-2**

Taiga Sample ID: **002**

**Client Project:**

**Sample Type:** Water

**Received Date:** 18-Jun-21

**Sampling Date:** 17-Jun-21

**Sampling Time:**

**Location:**

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Nutrients</u></b>						
Ortho-Phosphate as Phosphorus	1.24	0.002	mg/L	18-Jun-21	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	4980	0.4	µS/cm	18-Jun-21	SM2510:B	
pH	7.33		pH units	18-Jun-21	SM4500-H:B	
Solids, Total Suspended	880	3	mg/L	23-Jun-21	SM2540:D	
<b><u>Major Ions</u></b>						
Calcium	290	0.1	mg/L	18-Jun-21	SM4110:B	
Magnesium	163	0.1	mg/L	18-Jun-21	SM4110:B	
Potassium	253	0.1	mg/L	18-Jun-21	SM4110:B	
Sodium	552	0.1	mg/L	18-Jun-21	SM4110:B	
Sulphate	124	1	mg/L	18-Jun-21	SM4110:B	
<b><u>Organics</u></b>						
Hexane Extractable Material	22.9	2.0	mg/L	24-Jun-21	EPA1664A	
<b><u>Subcontracted Organics</u></b>						
Benzene	< 0.00050	0.0005	mg/L	30-Jul-21	EPA 5021	
Ethylbenzene	< 0.00050	0.0005	mg/L	30-Jul-21	EPA 5021	

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Taiga Batch No.:  
**210899**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **2016-2**

Taiga Sample ID: **002**

F1: C6-C10	< 0.10	0.1	mg/L	30-Jul-21	CCME CWS PHC
F2: C10-C16	0.61	0.3	mg/L	30-Jul-21	EPA3510
F3: C16-C34	1.66	0.3	mg/L	30-Jul-21	EPA3510
F4: C34-C50	< 0.30	0.3	mg/L	30-Jul-21	EPA3510
Phenols, Total	0.3130	0.001	mg/L	15-Jul-21	AB ENV.06537
Toluene	0.00292	0.0005	mg/L	30-Jul-21	EPA 5021
Xylenes	< 0.00050	0.0005	mg/L	30-Jul-21	EPA 5021
<b><u>Trace Metals, Total</u></b>					
Cadmium	0.7	0.1	µg/L	24-Jun-21	EPA200.8
Chromium	41.0	0.1	µg/L	24-Jun-21	EPA200.8
Cobalt	15.2	0.1	µg/L	24-Jun-21	EPA200.8
Copper	42.7	0.2	µg/L	24-Jun-21	EPA200.8
Iron	27500	5	µg/L	24-Jun-21	EPA200.8
Lead	17.9	0.1	µg/L	24-Jun-21	EPA200.8
Manganese	1750	0.1	µg/L	24-Jun-21	EPA200.8
Mercury	0.06	0.01	µg/L	24-Jun-21	EPA200.8
Nickel	70.0	0.1	µg/L	24-Jun-21	EPA200.8
Zinc	488	5	µg/L	24-Jun-21	EPA200.8

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## Taiga Environmental Laboratory

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

Taiga Batch No.:  
**210899**

### - CERTIFICATE OF ANALYSIS -

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Client Sample ID: **2016-2**

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*
- 249 *Taiga Environmental Laboratory is not accredited for this test.*

**\* 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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