

**From:** [taiga](#)  
**To:** [Susan Christie \(sao@fortprovidence.ca\)](mailto:sao@fortprovidence.ca); [Erica Janes](#); [Wendy Bidwell](#)  
**Subject:** Emailing: 200882 - 2021 - FINAL REPORT, 200882 - 2021 - FINAL REPORT  
**Date:** Monday, October 26, 2020 3:41:27 PM  
**Attachments:** [200882 - 2021 - FINAL REPORT.pdf](#)  
[200882 - 2021 - FINAL REPORT.xls](#)

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Susan,

Please see attached for final report 200882.

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:

200882 - 2021 - FINAL REPORT  
200882 - 2021 - 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.:**  
**200882**

**- 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.:  
**200882**

### - CERTIFICATE OF ANALYSIS -

Client Sample ID: **2016-2**

Taiga Sample ID: **001**

**Client Project:**

**Sample Type:** Poned Leachate

**Received Date:** 09-Oct-20

**Sampling Date:** 09-Oct-20

**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	0.103	0.002	mg/L	09-Oct-20	SM4500-P:D	
Phosphorous, Total	5.80	0.002	mg/L	14-Oct-20	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	6150	0.4	µS/cm	09-Oct-20	SM2510:B	
pH	6.96		pH units	09-Oct-20	SM4500-H:B	
Solids, Total Suspended	364	3	mg/L	15-Oct-20	SM2540:D	
<b><u>Major Ions</u></b>						
Sulphate	18	1	mg/L	09-Oct-20	SM4110:B	
<b><u>Subcontracted Inorganics</u></b>						
Calcium	505	0.05	mg/L	21-Oct-20	EPA200.2	
Potassium	322	0.05	mg/L	21-Oct-20	EPA200.2	
Sodium	650	0.05	mg/L	21-Oct-20	EPA200.2	
<b><u>Subcontracted Organics</u></b>						
Benzene	< 0.00050	0.0005	mg/L	21-Oct-20	EPA 5021	
Ethylbenzene	< 0.00050	0.0005	mg/L	21-Oct-20	EPA 5021	

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Taiga Batch No.:  
**200882**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **2016-2**

Taiga Sample ID: **001**

F1: C6-C10	< 0.10	0.1	mg/L	21-Oct-20	CCME CWS PHC
F2: C10-C16	0.67	0.1	mg/L	17-Oct-20	EPA3510
F3: C16-C34	1.65	0.25	mg/L	17-Oct-20	EPA3510
F4: C34-C50	< 0.25	0.25	mg/L	17-Oct-20	EPA3510
Hexane Extractable Material	6.6	5	mg/L	16-Oct-20	APHA 5520B
Phenols, Total	0.6540	0.001	mg/L	20-Oct-20	AB ENV.06537
Toluene	< 0.00050	0.0005	mg/L	21-Oct-20	EPA 5021
Xylenes	1.680	0.00075	mg/L	21-Oct-20	EPA 5021

### Trace Metals, Total

Cadmium	4.0	0.1	µg/L	16-Oct-20	EPA200.8
Chromium	31.8	0.1	µg/L	16-Oct-20	EPA200.8
Cobalt	9.8	0.1	µg/L	16-Oct-20	EPA200.8
Copper	16.1	0.2	µg/L	16-Oct-20	EPA200.8
Iron	62600	5	µg/L	16-Oct-20	EPA200.8
Lead	9.2	0.1	µg/L	16-Oct-20	EPA200.8
Manganese	2350	0.1	µg/L	16-Oct-20	EPA200.8
Mercury	0.07	0.01	µg/L	16-Oct-20	EPA200.8
Nickel	43.7	0.1	µg/L	16-Oct-20	EPA200.8
Zinc	1090	5	µg/L	16-Oct-20	EPA200.8

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

Taiga Batch No.:  
200882

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **1412-2**

Taiga Sample ID: **002**

**Client Project:**

**Sample Type:** Sewage Lagoon

**Received Date:** 09-Oct-20

**Sampling Date:** 08-Oct-20

**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	6.50	0.005	mg/L	15-Oct-20	SM4500-NH3:G	
CBOD	50	2	mg/L	09-Oct-20	SM5210:B	
Phosphorous, Total	7.72	0.002	mg/L	14-Oct-20	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
pH	8.97		pH units	09-Oct-20	SM4500-H:B	
Solids, Total Suspended	235	3	mg/L	15-Oct-20	SM2540:D	
<b><u>Major Ions</u></b>						
Nitrate as Nitrogen	0.41	0.01	mg/L	09-Oct-20	SM4110:B	
Nitrite as Nitrogen	0.20	0.01	mg/L	09-Oct-20	SM4110:B	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	10	10	CFU/100mL	09-Oct-20	SM9222:D	
<b><u>Subcontracted Organics</u></b>						
Benzene	< 0.00050	0.0005	mg/L	21-Oct-20	EPA 5021	
Ethylbenzene	< 0.00050	0.0005	mg/L	21-Oct-20	EPA 5021	
F1: C6-C10	< 0.10	0.1	mg/L	21-Oct-20	CCME CWS PHC	
F2: C10-C16	0.25	0.1	mg/L	17-Oct-20	EPA3510	

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**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: 1412-2**

**Taiga Sample ID: 002**

F3: C16-C34	0.35	0.25	mg/L	17-Oct-20	EPA3510
F4: C34-C50	< 0.25	0.25	mg/L	17-Oct-20	EPA3510
Hexane Extractable Material	< 5.0	5	mg/L	16-Oct-20	APHA 5520B
Toluene	< 0.00050	0.0005	mg/L	21-Oct-20	EPA 5021
Xylenes	< 0.00075	0.00075	mg/L	21-Oct-20	EPA 5021
<b><u>Trace Metals, Total</u></b>					
Cadmium	< 0.1	0.1	µg/L	16-Oct-20	EPA200.8
Chromium	1.0	0.1	µg/L	16-Oct-20	EPA200.8
Cobalt	0.9	0.1	µg/L	16-Oct-20	EPA200.8
Copper	0.6	0.2	µg/L	16-Oct-20	EPA200.8
Iron	1030	5	µg/L	16-Oct-20	EPA200.8
Lead	0.5	0.1	µg/L	16-Oct-20	EPA200.8
Manganese	107	0.1	µg/L	16-Oct-20	EPA200.8
Nickel	4.1	0.1	µg/L	16-Oct-20	EPA200.8
Zinc	< 5.0	5	µg/L	16-Oct-20	EPA200.8

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### - CERTIFICATE OF ANALYSIS -

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Client Sample ID: **1412-2**

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

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