



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

**Taiga Batch No.:**  
**200914**

**- FINAL REPORT -**

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**Prepared For:** Hamlet of Fort McPherson

**Address:** P.O. Box 57  
Fort McPherson, NT  
X0E 0J0

**Attn:** Supervisor

**Facsimile:** (867) 952-2725

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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:** Wednesday, October 28, 2020

**Print Date:** *Wednesday, October 28, 2020*

*Page 1 of 8*



## Taiga Environmental Laboratory

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

Taiga Batch No.:  
**200914**

### - CERTIFICATE OF ANALYSIS -

Client Sample ID: **1696-5**

Taiga Sample ID: **001**

Client Project: GO3L3-001

Sample Type: Sewage

Received Date: 20-Oct-20

Sampling Date: 20-Oct-20

Sampling Time: 8:00

Location: 1696-5

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	1.12	0.005	mg/L	22-Oct-20	SM4500-NH3:G	
Biochemical Oxygen Demand	5	2	mg/L	21-Oct-20	SM5210:B	
CBOD	6	2	mg/L	21-Oct-20	SM5210:B	
Nitrogen, Total	2.78	0.06	mg/L	24-Oct-20	ISO/TR 11905:1997(E)	
<b><u>Inorganics - Physicals</u></b>						
pH	6.74		pH units	22-Oct-20	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	23-Oct-20	SM2540:D	
<b><u>Major Ions</u></b>						
Nitrate+Nitrite as Nitrogen	0.29	0.01	mg/L	21-Oct-20	SM4110:B	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	1210	10	CFU/100mL	20-Oct-20	SM9222:D	
<b><u>Organics</u></b>						
Hexane Extractable Material	< 2.0	2.0	mg/L	21-Oct-20	EPA1664A	
<b><u>Subcontracted Organics</u></b>						
Phenols, Total	< 0.0010	0.001	mg/L	23-Oct-20	AB ENV.06537	

ReportDate: Wednesday, October 28, 2020

Print Date: **Wednesday, October 28, 2020**

Page 2 of 8



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**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **1696-5**

Taiga Sample ID: **001**

**Trace Metals, Total**

Aluminum	130	5	µg/L	23-Oct-20	EPA200.8
Antimony	0.1	0.1	µg/L	23-Oct-20	EPA200.8
Arsenic	1.3	0.2	µg/L	23-Oct-20	EPA200.8
Barium	44.8	0.1	µg/L	23-Oct-20	EPA200.8
Beryllium	< 0.1	0.1	µg/L	23-Oct-20	EPA200.8
Bismuth	< 0.2	0.2	µg/L	23-Oct-20	EPA200.8
Boron	60.6	0.9	µg/L	23-Oct-20	EPA200.8
Cadmium	< 0.1	0.1	µg/L	23-Oct-20	EPA200.8
Cesium	< 0.1	0.1	µg/L	23-Oct-20	EPA200.8
Chromium	0.4	0.1	µg/L	23-Oct-20	EPA200.8
Cobalt	0.6	0.1	µg/L	23-Oct-20	EPA200.8
Copper	1.1	0.2	µg/L	23-Oct-20	EPA200.8
Iron	1780	5	µg/L	23-Oct-20	EPA200.8
Lead	0.2	0.1	µg/L	23-Oct-20	EPA200.8
Lithium	4.4	0.2	µg/L	23-Oct-20	EPA200.8
Manganese	85.1	0.1	µg/L	23-Oct-20	EPA200.8
Mercury	< 0.01	0.01	µg/L	23-Oct-20	EPA200.8
Molybdenum	0.3	0.1	µg/L	23-Oct-20	EPA200.8
Nickel	2.4	0.1	µg/L	23-Oct-20	EPA200.8
Rubidium	1.3	0.1	µg/L	23-Oct-20	EPA200.8
Selenium	< 0.5	0.5	µg/L	23-Oct-20	EPA200.8
Silver	< 0.1	0.1	µg/L	23-Oct-20	EPA200.8
Strontium	46.9	0.1	µg/L	23-Oct-20	EPA200.8
Thallium	< 0.1	0.1	µg/L	23-Oct-20	EPA200.8

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Client Sample ID: **1696-5**

Taiga Sample ID: **001**

Tin	< 0.1	0.1	µg/L	23-Oct-20	EPA200.8
Titanium	1.4	0.1	µg/L	23-Oct-20	EPA200.8
Uranium	< 0.1	0.1	µg/L	23-Oct-20	EPA200.8
Vanadium	0.6	0.1	µg/L	23-Oct-20	EPA200.8
Zinc	5.5	5	µg/L	23-Oct-20	EPA200.8

ReportDate: Wednesday, October 28, 2020

Print Date: *Wednesday, October 28, 2020*

*Page 4 of 8*



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

Taiga Batch No.:  
**200914**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **1696-6**

Taiga Sample ID: **002**

Client Project: GO3L3-001

Sample Type: Sewage

Received Date: 20-Oct-20

Sampling Date: 20-Oct-20

Sampling Time: 8:00

Location: 1696-6

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	0.018	0.005	mg/L	22-Oct-20	SM4500-NH3:G	
Biochemical Oxygen Demand	< 2	2	mg/L	21-Oct-20	SM5210:B	
CBOD	< 2	2	mg/L	21-Oct-20	SM5210:B	
Nitrogen, Total	0.77	0.06	mg/L	24-Oct-20	ISO/TR 11905:1997(E)	
<b><u>Inorganics - Physicals</u></b>						
pH	7.57		pH units	22-Oct-20	SM4500-H:B	
Solids, Total Suspended	4	3	mg/L	23-Oct-20	SM2540:D	
<b><u>Major Ions</u></b>						
Nitrate+Nitrite as Nitrogen	0.04	0.01	mg/L	21-Oct-20	SM4110:B	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	1	1	CFU/100mL	20-Oct-20	SM9222:D	
<b><u>Organics</u></b>						
Hexane Extractable Material	< 2.0	2.0	mg/L	21-Oct-20	EPA1664A	
<b><u>Subcontracted Organics</u></b>						
Phenols, Total	< 0.0010	0.001	mg/L	23-Oct-20	AB ENV.06537	
<b><u>Trace Metals, Total</u></b>						

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Client Sample ID: **1696-6**

Taiga Sample ID: **002**

Aluminum	83.4	5	µg/L	23-Oct-20	EPA200.8
Antimony	< 0.1	0.1	µg/L	23-Oct-20	EPA200.8
Arsenic	0.9	0.2	µg/L	23-Oct-20	EPA200.8
Barium	121	0.1	µg/L	23-Oct-20	EPA200.8
Beryllium	< 0.1	0.1	µg/L	23-Oct-20	EPA200.8
Bismuth	< 0.2	0.2	µg/L	23-Oct-20	EPA200.8
Boron	46.2	0.9	µg/L	23-Oct-20	EPA200.8
Cadmium	< 0.1	0.1	µg/L	23-Oct-20	EPA200.8
Cesium	< 0.1	0.1	µg/L	23-Oct-20	EPA200.8
Chromium	0.3	0.1	µg/L	23-Oct-20	EPA200.8
Cobalt	0.2	0.1	µg/L	23-Oct-20	EPA200.8
Copper	1.5	0.2	µg/L	23-Oct-20	EPA200.8
Iron	655	5	µg/L	23-Oct-20	EPA200.8
Lead	0.2	0.1	µg/L	23-Oct-20	EPA200.8
Lithium	17.8	0.2	µg/L	23-Oct-20	EPA200.8
Manganese	102	0.1	µg/L	23-Oct-20	EPA200.8
Mercury	< 0.01	0.01	µg/L	23-Oct-20	EPA200.8
Molybdenum	0.8	0.1	µg/L	23-Oct-20	EPA200.8
Nickel	8.7	0.1	µg/L	23-Oct-20	EPA200.8
Rubidium	2.4	0.1	µg/L	23-Oct-20	EPA200.8
Selenium	< 0.5	0.5	µg/L	23-Oct-20	EPA200.8
Silver	< 0.1	0.1	µg/L	23-Oct-20	EPA200.8
Strontium	142	0.1	µg/L	23-Oct-20	EPA200.8
Thallium	< 0.1	0.1	µg/L	23-Oct-20	EPA200.8
Tin	< 0.1	0.1	µg/L	23-Oct-20	EPA200.8

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Client Sample ID: **1696-6**

Taiga Sample ID: **002**

Titanium	1.2	0.1	µg/L	23-Oct-20	EPA200.8
Uranium	0.2	0.1	µg/L	23-Oct-20	EPA200.8
Vanadium	0.5	0.1	µg/L	23-Oct-20	EPA200.8
Zinc	7.9	5	µg/L	23-Oct-20	EPA200.8

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Print Date: *Wednesday, October 28, 2020*

*Page 7 of 8*



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Client Sample ID: **1696-6**

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

ReportDate: Wednesday, October 28, 2020

Print Date: *Wednesday, October 28, 2020*

*Page 8 of 8*