



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

**Taiga Batch No.:**  
**190343**

**- FINAL REPORT -**

---

**Prepared For:** Community Government of Behchoko

**Address:** P.O. Box 68  
Behchoko, NT  
X0E 0Y0

**Attn:** Galvin Simpson

**Facsimile:** (867) 392-6967

---

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

A handwritten signature in black ink, appearing to read 'Glen Hudy', is written over a horizontal line.

**Glen Hudy**  
**Quality Assurance Officer**

---

**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, July 10, 2019

**Print Date:** *Wednesday, July 10, 2019*

*Page 1 of 12*



## Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

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

Taiga Batch No.:  
**190343**

### - CERTIFICATE OF ANALYSIS -

Client Sample ID: **2014-E2**

Taiga Sample ID: **001**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 12-Jun-19

Sampling Date: 12-Jun-19

Sampling Time:

Location: Behchoko, NT

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	9.59	0.005	mg/L	18-Jun-19	SM4500-NH3:G	
Biochemical Oxygen Demand	39	2	mg/L	12-Jun-19	SM5210:B	
CBOD	32	2	mg/L	12-Jun-19	SM5210:B	
Phosphorous, Total	0.714	0.002	mg/L	20-Jun-19	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
pH	8.81		pH units	13-Jun-19	SM4500-H:B	
Solids, Total Suspended	14	3	mg/L	18-Jun-19	SM2540:D	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	490	10	CFU/100mL	12-Jun-19	SM9222:D	
<b><u>Organics</u></b>						
Hexane Extractable Material	< 2.0	2.0	mg/L	17-Jun-19	EPA1664A	
<b><u>Subcontracted Organics</u></b>						
Phenols, Total	0.0012	0.001	mg/L	28-Jun-19	AB ENV.06537	

ReportDate: Wednesday, July 10, 2019

Print Date: **Wednesday, July 10, 2019**

Page 2 of 12



# Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

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

Taiga Batch No.:  
**190343**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **2014-E3**

Taiga Sample ID: **002**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 12-Jun-19

Sampling Date: 12-Jun-19

Sampling Time:

Location: Behchoko, NT

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	11.7	0.005	mg/L	18-Jun-19	SM4500-NH3:G	
Biochemical Oxygen Demand	45	2	mg/L	12-Jun-19	SM5210:B	
CBOD	41	2	mg/L	12-Jun-19	SM5210:B	
Phosphorous, Total	0.990	0.002	mg/L	20-Jun-19	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
pH	7.29		pH units	13-Jun-19	SM4500-H:B	
Solids, Total Suspended	32	3	mg/L	18-Jun-19	SM2540:D	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	20000	10000	CFU/100mL	12-Jun-19	SM9222:D	
<b><u>Organics</u></b>						
Hexane Extractable Material	3.1	2.0	mg/L	17-Jun-19	EPA1664A	
<b><u>Subcontracted Organics</u></b>						
Phenols, Total	0.0040	0.001	mg/L	02-Jul-19	AB ENV.06537	

ReportDate: Wednesday, July 10, 2019

Print Date: **Wednesday, July 10, 2019**

Page 3 of 12



# Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

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

Taiga Batch No.:  
**190343**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **2014-E4**

Taiga Sample ID: **003**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 12-Jun-19

Sampling Date: 12-Jun-19

Sampling Time:

Location: Behchoko, NT

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	0.116	0.005	mg/L	18-Jun-19	SM4500-NH3:G	
Biochemical Oxygen Demand	176	2	mg/L	12-Jun-19	SM5210:B	
CBOD	161	2	mg/L	12-Jun-19	SM5210:B	
Phosphorous, Total	3.08	0.002	mg/L	20-Jun-19	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
pH	6.74		pH units	13-Jun-19	SM4500-H:B	
Solids, Total Suspended	2380	3	mg/L	18-Jun-19	SM2540:D	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	3	1	CFU/100mL	12-Jun-19	SM9222:D	
<b><u>Organics</u></b>						
Hexane Extractable Material	10.3	2.0	mg/L	17-Jun-19	EPA1664A	
<b><u>Subcontracted Organics</u></b>						
Phenols, Total	0.0136	0.001	mg/L	28-Jun-19	AB ENV.06537	

ReportDate: Wednesday, July 10, 2019

Print Date: *Wednesday, July 10, 2019*

Page 4 of 12



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

Taiga Batch No.:  
**190343**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **2014-R5**

Taiga Sample ID: **004**

Client Project: W2014L3-0002

Sample Type: Runoff

Received Date: 12-Jun-19

Sampling Date: 12-Jun-19

Sampling Time:

Location: Behchoko, NT

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Nutrients</u></b>						
Phosphorous, Total	0.181	0.002	mg/L	20-Jun-19	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	1170	0.4	µS/cm	13-Jun-19	SM2510:B	
pH	8.14		pH units	13-Jun-19	SM4500-H:B	
Solids, Total Suspended	84	3	mg/L	18-Jun-19	SM2540:D	
<b><u>Major Ions</u></b>						
Calcium	58.6	0.1	mg/L	13-Jun-19	SM4110:B	
Magnesium	43.6	0.1	mg/L	13-Jun-19	SM4110:B	
Potassium	8.7	0.1	mg/L	13-Jun-19	SM4110:B	
Sodium	110	0.1	mg/L	13-Jun-19	SM4110:B	
Sulphate	21	1	mg/L	13-Jun-19	SM4110:B	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	84	1	CFU/100mL	12-Jun-19	SM9222:D	
<b><u>Organics</u></b>						
Benzene		0.002	mg/L		EPA8260B	111
Ethylbenzene		0.002	mg/L		EPA8260B	111

ReportDate: Wednesday, July 10, 2019

Print Date: *Wednesday, July 10, 2019*



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

Taiga Batch No.:  
**190343**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: 2014-R5**

**Taiga Sample ID: 004**

F2: C10-C16		0.2	mg/L		EPA8015B	16
F3: C16-C34		0.2	mg/L		EPA8015B	16
F4: C34-C50		0.2	mg/L		EPA8015B	16
Hexane Extractable Material	< 2.0	2.0	mg/L	17-Jun-19	EPA1664A	
Hydrocarbons, Total Extractable		0.2	mg/L		EPA8015B	16
Toluene		0.002	mg/L		EPA8260B	111
Xylenes		0.002	mg/L		EPA8260B	111

**Subcontracted Organics**

Phenols, Total		0.001	mg/L		AB ENV.06537	16
----------------	--	-------	------	--	--------------	----

**Trace Metals, Total**

Aluminum	3640	5	µg/L	24-Jun-19	EPA200.8	
Antimony	< 0.1	0.1	µg/L	24-Jun-19	EPA200.8	
Arsenic	3.9	0.2	µg/L	24-Jun-19	EPA200.8	
Barium	127	0.1	µg/L	24-Jun-19	EPA200.8	
Beryllium	0.1	0.1	µg/L	24-Jun-19	EPA200.8	
Bismuth	< 0.2	0.2	µg/L	24-Jun-19	EPA200.8	
Boron	31.9	0.9	µg/L	24-Jun-19	EPA200.8	
Cadmium	< 0.1	0.1	µg/L	24-Jun-19	EPA200.8	
Cesium	0.5	0.1	µg/L	24-Jun-19	EPA200.8	
Chromium	7.0	0.1	µg/L	24-Jun-19	EPA200.8	
Cobalt	2.6	0.1	µg/L	24-Jun-19	EPA200.8	
Copper	8.9	0.2	µg/L	24-Jun-19	EPA200.8	
Iron	5170	5	µg/L	24-Jun-19	EPA200.8	
Lead	2.2	0.1	µg/L	24-Jun-19	EPA200.8	
Lithium	17.0	0.2	µg/L	24-Jun-19	EPA200.8	

**ReportDate:** Wednesday, July 10, 2019

**Print Date:** *Wednesday, July 10, 2019*



## Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

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

Taiga Batch No.:  
**190343**

### - CERTIFICATE OF ANALYSIS -

---

Client Sample ID: **2014-R5**

Taiga Sample ID: **004**

Manganese	301	0.1	µg/L	24-Jun-19	EPA200.8
Mercury	0.01	0.01	µg/L	24-Jun-19	EPA200.8
Molybdenum	0.7	0.1	µg/L	24-Jun-19	EPA200.8
Nickel	11.8	0.1	µg/L	24-Jun-19	EPA200.8
Rubidium	10.1	0.1	µg/L	24-Jun-19	EPA200.8
Selenium	< 0.5	0.5	µg/L	24-Jun-19	EPA200.8
Silver	< 0.1	0.1	µg/L	24-Jun-19	EPA200.8
Strontium	270	0.1	µg/L	24-Jun-19	EPA200.8
Thallium	< 0.1	0.1	µg/L	24-Jun-19	EPA200.8
Tin	< 0.1	0.1	µg/L	24-Jun-19	EPA200.8
Titanium	152	0.1	µg/L	24-Jun-19	EPA200.8
Uranium	6.1	0.1	µg/L	24-Jun-19	EPA200.8
Vanadium	8.5	0.1	µg/L	24-Jun-19	EPA200.8
Zinc	17.6	5	µg/L	24-Jun-19	EPA200.8

ReportDate: Wednesday, July 10, 2019

Print Date: *Wednesday, July 10, 2019*

*Page 7 of 12*



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

Taiga Batch No.:  
**190343**

**- CERTIFICATE OF ANALYSIS -**

Client Sample ID: **2014-R3**

Taiga Sample ID: **005**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 12-Jun-19

Sampling Date: 12-Jun-19

Sampling Time:

Location: Behchoko, NT

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	311	0.4	µS/cm	17-Jun-19	SM2510:B	
<b><u>Major Ions</u></b>						
Calcium	17.8	0.1	mg/L	14-Jun-19	SM4110:B	
Magnesium	10.5	0.1	mg/L	14-Jun-19	SM4110:B	
Potassium	8.5	0.1	mg/L	14-Jun-19	SM4110:B	
Sodium	25.5	0.1	mg/L	14-Jun-19	SM4110:B	
Sulphate	6	1	mg/L	14-Jun-19	SM4110:B	
<b><u>Organics</u></b>						
Hexane Extractable Material	< 2.0	2.0	mg/L	18-Jun-19	EPA1664A	
<b><u>Subcontracted Organics</u></b>						
Phenols, Total	0.0020	0.001	mg/L	28-Jun-19	AB ENV.06537	
<b><u>Trace Metals, Total</u></b>						
Cadmium	< 0.1	0.1	µg/L	24-Jun-19	EPA200.8	
Chromium	0.8	0.1	µg/L	24-Jun-19	EPA200.8	
Copper	1.2	0.2	µg/L	24-Jun-19	EPA200.8	
Iron	1170	5	µg/L	24-Jun-19	EPA200.8	

ReportDate: Wednesday, July 10, 2019

Print Date: **Wednesday, July 10, 2019**





## Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

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

Taiga Batch No.:

**190343**

### - CERTIFICATE OF ANALYSIS -

---

Client Sample ID: **2014-R3**

Taiga Sample ID: **005**

Lead	0.2	0.1	µg/L	24-Jun-19	EPA200.8
Mercury	< 0.01	0.01	µg/L	24-Jun-19	EPA200.8
Nickel	1.9	0.1	µg/L	24-Jun-19	EPA200.8
Zinc	6.0	5	µg/L	24-Jun-19	EPA200.8

ReportDate: Wednesday, July 10, 2019

Print Date: *Wednesday, July 10, 2019*

*Page 9 of 12*



# Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

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

Taiga Batch No.:  
**190343**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **2014-R4**

Taiga Sample ID: **006**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 12-Jun-19

Sampling Date: 12-Jun-19

Sampling Time:

Location: Behchoko, NT

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Physicals</u></b>						
Conductivity, Specific (@25C)	104	0.4	µS/cm	17-Jun-19	SM2510:B	
<b><u>Major Ions</u></b>						
Calcium	9.3	0.1	mg/L	14-Jun-19	SM4110:B	
Magnesium	5.8	0.1	mg/L	14-Jun-19	SM4110:B	
Potassium	1.9	0.1	mg/L	14-Jun-19	SM4110:B	
Sodium	6.1	0.1	mg/L	14-Jun-19	SM4110:B	
Sulphate	1	1	mg/L	14-Jun-19	SM4110:B	
<b><u>Organics</u></b>						
Hexane Extractable Material	< 2.0	2.0	mg/L	18-Jun-19	EPA1664A	
<b><u>Subcontracted Organics</u></b>						
Phenols, Total	0.0013	0.001	mg/L	28-Jun-19	AB ENV.06537	
<b><u>Trace Metals, Total</u></b>						
Cadmium	< 0.1	0.1	µg/L	24-Jun-19	EPA200.8	
Chromium	3.3	0.1	µg/L	24-Jun-19	EPA200.8	
Copper	1.9	0.2	µg/L	24-Jun-19	EPA200.8	
Iron	2610	5	µg/L	24-Jun-19	EPA200.8	

ReportDate: Wednesday, July 10, 2019

Print Date: *Wednesday, July 10, 2019*



## Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

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

Taiga Batch No.:

**190343**

### - CERTIFICATE OF ANALYSIS -

---

Client Sample ID: **2014-R4**

Taiga Sample ID: **006**

Lead	0.7	0.1	µg/L	24-Jun-19	EPA200.8
Mercury	< 0.01	0.01	µg/L	24-Jun-19	EPA200.8
Nickel	3.0	0.1	µg/L	24-Jun-19	EPA200.8
Zinc	6.1	5	µg/L	24-Jun-19	EPA200.8

ReportDate: Wednesday, July 10, 2019

Print Date: *Wednesday, July 10, 2019*

*Page 11 of 12*



## Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

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

Taiga Batch No.:

**190343**

### - CERTIFICATE OF ANALYSIS -

---

Client Sample ID: **2014-R4**

Taiga Sample ID: **006**

---

### - DATA QUALIFIERS -

---

*Data Qualifier Descriptions:*

- 111**     *Vial contained air bubble, analysis not possible*
- 16**      *Test requested but no sample bottle received*

**\* 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, July 10, 2019

Print Date: *Wednesday, July 10, 2019*

*Page 12 of 12*