



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

Taiga Batch No.:
180352

- 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:

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: Thursday, June 28, 2018

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Taiga Batch No.:
180352

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2014-E2**

Taiga Sample ID: **001**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 07-Jun-18

Sampling Date: 06-Jun-18

Sampling Time: 14:00

Location:

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	6.88	0.005	mg/L	12-Jun-18	SM4500-NH3:G	
Biochemical Oxygen Demand	14	2	mg/L	08-Jun-18	SM5210:B	
CBOD	14	2	mg/L	08-Jun-18	SM5210:B	
Phosphorous, Total	0.219	0.002	mg/L	08-Jun-18	SM4500-P:D	
<u>Inorganics - Physicals</u>						
Conductivity, Specific (@25C)	568	0.4	µS/cm	07-Jun-18	SM2510:B	
pH	8.20		pH units	07-Jun-18	SM4500-H:B	
Solids, Total Suspended	18	3	mg/L	08-Jun-18	SM2540:D	
<u>Major Ions</u>						
Calcium	45.1	0.1	mg/L	09-Jun-18	SM4110:B	
Magnesium	17.8	0.1	mg/L	09-Jun-18	SM4110:B	
Potassium	7.5	0.1	mg/L	09-Jun-18	SM4110:B	
Sodium	29.1	0.1	mg/L	09-Jun-18	SM4110:B	
Sulphate	73	1	mg/L	09-Jun-18	SM4110:B	

Microbiology

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Client Sample ID: **2014-E2**

Taiga Sample ID: **001**

Coliforms, Fecal 110 1 CFU/100mL 07-Jun-18 SM9222:D

Organics

Hexane Extractable Material 2.0 mg/L EPA1664A 16

Subcontracted Organics

Phenols, Total < 0.0010 0.001 mg/L 18-Jun-18 AB ENV.06537

Trace Metals, Total

Cadmium < 0.1 0.1 µg/L 13-Jun-18 EPA200.8

Chromium < 0.1 0.1 µg/L 13-Jun-18 EPA200.8

Copper 7.9 0.2 µg/L 13-Jun-18 EPA200.8

Iron 73 5 µg/L 13-Jun-18 EPA200.8

Lead < 0.1 0.1 µg/L 13-Jun-18 EPA200.8

Mercury < 0.01 0.01 µg/L 13-Jun-18 EPA200.8

Nickel 0.8 0.1 µg/L 13-Jun-18 EPA200.8

Zinc < 5.0 5 µg/L 13-Jun-18 EPA200.8

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Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2014-E3**

Taiga Sample ID: **002**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 07-Jun-18

Sampling Date: 06-Jun-18

Sampling Time: 14:00

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	10.3	0.005	mg/L	12-Jun-18	SM4500-NH3:G	
Biochemical Oxygen Demand	95	2	mg/L	08-Jun-18	SM5210:B	
CBOD	77	2	mg/L	08-Jun-18	SM5210:B	
Phosphorous, Total	1.28	0.002	mg/L	08-Jun-18	SM4500-P:D	
<u>Inorganics - Physicals</u>						
Conductivity, Specific (@25C)	580	0.4	µS/cm	07-Jun-18	SM2510:B	
pH	7.30		pH units	07-Jun-18	SM4500-H:B	
Solids, Total Suspended	56	3	mg/L	08-Jun-18	SM2540:D	
<u>Major Ions</u>						
Calcium	48.1	0.1	mg/L	09-Jun-18	SM4110:B	
Magnesium	17.8	0.1	mg/L	09-Jun-18	SM4110:B	
Potassium	9.1	0.1	mg/L	09-Jun-18	SM4110:B	
Sodium	22.9	0.1	mg/L	09-Jun-18	SM4110:B	
Sulphate	84	1	mg/L	09-Jun-18	SM4110:B	
<u>Microbiology</u>						
Coliforms, Fecal	TNTC	1	CFU/100mL	07-Jun-18	SM9222:D	86

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2014-E3**

Taiga Sample ID: **002**

Organics

Hexane Extractable Material	2.0	mg/L	EPA1664A	16
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Subcontracted Organics

Phenols, Total	0.0025	0.001	mg/L	18-Jun-18	AB ENV.06537
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Trace Metals, Total

Cadmium	0.1	0.1	µg/L	13-Jun-18	EPA200.8
Chromium	0.8	0.1	µg/L	13-Jun-18	EPA200.8
Copper	70.2	0.2	µg/L	13-Jun-18	EPA200.8
Iron	1320	5	µg/L	13-Jun-18	EPA200.8
Lead	0.6	0.1	µg/L	13-Jun-18	EPA200.8
Mercury	< 0.01	0.01	µg/L	13-Jun-18	EPA200.8
Nickel	2.4	0.1	µg/L	13-Jun-18	EPA200.8
Zinc	120	5	µg/L	13-Jun-18	EPA200.8

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2014-E4**

Taiga Sample ID: **003**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 07-Jun-18

Sampling Date: 06-Jun-18

Sampling Time: 14:00

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	5.59	0.005	mg/L	12-Jun-18	SM4500-NH3:G	
Biochemical Oxygen Demand	25	2	mg/L	08-Jun-18	SM5210:B	
CBOD	23	2	mg/L	08-Jun-18	SM5210:B	
Phosphorous, Total	1.82	0.002	mg/L	08-Jun-18	SM4500-P:D	
<u>Inorganics - Physicals</u>						
Conductivity, Specific (@25C)	521	0.4	µS/cm	07-Jun-18	SM2510:B	
pH	7.53		pH units	07-Jun-18	SM4500-H:B	
Solids, Total Suspended	222	3	mg/L	08-Jun-18	SM2540:D	
<u>Major Ions</u>						
Calcium	39.0	0.1	mg/L	09-Jun-18	SM4110:B	
Magnesium	18.5	0.1	mg/L	09-Jun-18	SM4110:B	
Potassium	8.8	0.1	mg/L	09-Jun-18	SM4110:B	
Sodium	27.2	0.1	mg/L	09-Jun-18	SM4110:B	
Sulphate	50	1	mg/L	09-Jun-18	SM4110:B	
<u>Microbiology</u>						
Coliforms, Fecal	2	1	CFU/100mL	07-Jun-18	SM9222:D	

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Client Sample ID: **2014-E4**

Taiga Sample ID: **003**

Organics

Hexane Extractable Material	2.0	mg/L	EPA1664A	16
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Subcontracted Organics

Phenols, Total	0.0012	0.001	mg/L	18-Jun-18	AB ENV.06537
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Trace Metals, Total

Cadmium	< 0.1	0.1	µg/L	13-Jun-18	EPA200.8
Chromium	0.4	0.1	µg/L	13-Jun-18	EPA200.8
Copper	3.8	0.2	µg/L	13-Jun-18	EPA200.8
Iron	842	5	µg/L	13-Jun-18	EPA200.8
Lead	0.2	0.1	µg/L	13-Jun-18	EPA200.8
Mercury	< 0.01	0.01	µg/L	13-Jun-18	EPA200.8
Nickel	1.4	0.1	µg/L	13-Jun-18	EPA200.8
Zinc	7.0	5	µg/L	13-Jun-18	EPA200.8

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Client Sample ID: **2014-E4**

Taiga Sample ID: **003**

- DATA QUALIFIERS -

Data Qualifier Descriptions:

- 16 *Test requested but no sample bottle received*
- 86 *Too numerous to count. Unable to repeat analysis at higher dilution. Holding time exceeded.*

*** 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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