



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

Taiga Batch No.:
190579

- 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: Friday, August 16, 2019

Print Date: *Monday, August 19, 2019*

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Taiga Batch No.:
190579

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **SNP R3**

Taiga Sample ID: **001**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 24-Jul-19

Sampling Date: 24-Jul-19

Sampling Time: 10:30

Location: Rae Lagoon

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	4	2	mg/L	24-Jul-19	SM5210:B	
CBOD	4	2	mg/L	24-Jul-19	SM5210:B	
Chemical Oxygen Demand	124	5	mg/L	06-Aug-19	SM5220:D	
Nitrogen, Total	4.88	0.06	mg/L	28-Jul-19	ISO/TR 11905:1997(E)	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO3)	136	0.4	mg/L	24-Jul-19	SM2320:B	
pH	7.38		pH units	24-Jul-19	SM4500-H:B	
Solids, Total Suspended	8	3	mg/L	01-Aug-19	SM2540:D	
<u>Major Ions</u>						
Nitrate+Nitrite as Nitrogen	0.62	0.01	mg/L	25-Jul-19	SM4110:B	
<u>Microbiology</u>						
Coliforms, Fecal	16	1	CFU/100mL	24-Jul-19	SM9222:D	
<u>Organics</u>						
Hexane Extractable Material		2.0	mg/L		EPA1664A	16
<u>Subcontracted Inorganics</u>						

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Phosphorous, Total	0.996	0.020	mg/L	12-Aug-19	APHA4500:P	224
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Subcontracted Nutrients

Ammonia as Nitrogen	1.830	0.050	mg/L	01-Aug-19	SM4500 NH3	
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Trace Metals, Total

Aluminum	329	5	µg/L	01-Aug-19	EPA200.8	
Antimony	< 0.1	0.1	µg/L	01-Aug-19	EPA200.8	
Arsenic	4.8	0.2	µg/L	01-Aug-19	EPA200.8	
Barium	35.1	0.1	µg/L	01-Aug-19	EPA200.8	
Beryllium	< 0.1	0.1	µg/L	01-Aug-19	EPA200.8	
Cadmium	< 0.1	0.1	µg/L	01-Aug-19	EPA200.8	
Cesium	< 0.1	0.1	µg/L	01-Aug-19	EPA200.8	
Chromium	0.7	0.1	µg/L	01-Aug-19	EPA200.8	
Cobalt	1.3	0.1	µg/L	01-Aug-19	EPA200.8	
Copper	1.0	0.2	µg/L	01-Aug-19	EPA200.8	
Iron	2010	5	µg/L	01-Aug-19	EPA200.8	
Lead	0.2	0.1	µg/L	01-Aug-19	EPA200.8	
Lithium	8.7	0.2	µg/L	01-Aug-19	EPA200.8	
Manganese	477	0.1	µg/L	01-Aug-19	EPA200.8	
Molybdenum	0.5	0.1	µg/L	01-Aug-19	EPA200.8	
Nickel	2.2	0.1	µg/L	01-Aug-19	EPA200.8	
Rubidium	5.2	0.1	µg/L	01-Aug-19	EPA200.8	
Selenium	< 0.5	0.5	µg/L	01-Aug-19	EPA200.8	
Silver	< 0.1	0.1	µg/L	01-Aug-19	EPA200.8	
Strontium	97.7	0.1	µg/L	01-Aug-19	EPA200.8	
Thallium	< 0.1	0.1	µg/L	01-Aug-19	EPA200.8	

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Titanium	12.1	0.1	µg/L	01-Aug-19	EPA200.8
Uranium	1.4	0.1	µg/L	01-Aug-19	EPA200.8
Vanadium	1.2	0.1	µg/L	01-Aug-19	EPA200.8
Zinc	13.8	5	µg/L	01-Aug-19	EPA200.8

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Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **SNP R4**

Taiga Sample ID: **002**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 24-Jul-19

Sampling Date: 24-Jul-19

Sampling Time: 10:30

Location: Rae Lagoon

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	2	2	mg/L	24-Jul-19	SM5210:B	
CBOD	< 2	2	mg/L	24-Jul-19	SM5210:B	
Chemical Oxygen Demand	97	5	mg/L	06-Aug-19	SM5220:D	
Nitrogen, Total	1.35	0.06	mg/L	28-Jul-19	ISO/TR 11905:1997(E)	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO3)	64.7	0.4	mg/L	24-Jul-19	SM2320:B	
pH	7.13		pH units	24-Jul-19	SM4500-H:B	
Solids, Total Suspended	24	3	mg/L	01-Aug-19	SM2540:D	
<u>Major Ions</u>						
Nitrate+Nitrite as Nitrogen	0.42	0.01	mg/L	25-Jul-19	SM4110:B	
<u>Microbiology</u>						
Coliforms, Fecal	94	1	CFU/100mL	24-Jul-19	SM9222:D	
<u>Organics</u>						
Hexane Extractable Material		2.0	mg/L		EPA1664A	16
<u>Subcontracted Inorganics</u>						
Phosphorous, Total	0.0320	0.001	mg/L	12-Aug-19	APHA4500:P	

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Subcontracted Nutrients

Ammonia as Nitrogen < 0.0500 0.050 mg/L 01-Aug-19 SM4500 NH3

Trace Metals, Total

Aluminum	279	5	µg/L	01-Aug-19	EPA200.8
Antimony	< 0.1	0.1	µg/L	01-Aug-19	EPA200.8
Arsenic	2.8	0.2	µg/L	01-Aug-19	EPA200.8
Barium	20.5	0.1	µg/L	01-Aug-19	EPA200.8
Beryllium	< 0.1	0.1	µg/L	01-Aug-19	EPA200.8
Cadmium	< 0.1	0.1	µg/L	01-Aug-19	EPA200.8
Cesium	< 0.1	0.1	µg/L	01-Aug-19	EPA200.8
Chromium	0.8	0.1	µg/L	01-Aug-19	EPA200.8
Cobalt	0.6	0.1	µg/L	01-Aug-19	EPA200.8
Copper	0.5	0.2	µg/L	01-Aug-19	EPA200.8
Iron	1270	5	µg/L	01-Aug-19	EPA200.8
Lead	0.2	0.1	µg/L	01-Aug-19	EPA200.8
Lithium	5.4	0.2	µg/L	01-Aug-19	EPA200.8
Manganese	210	0.1	µg/L	01-Aug-19	EPA200.8
Molybdenum	0.2	0.1	µg/L	01-Aug-19	EPA200.8
Nickel	1.6	0.1	µg/L	01-Aug-19	EPA200.8
Rubidium	1.7	0.1	µg/L	01-Aug-19	EPA200.8
Selenium	< 0.5	0.5	µg/L	01-Aug-19	EPA200.8
Silver	< 0.1	0.1	µg/L	01-Aug-19	EPA200.8
Strontium	61.4	0.1	µg/L	01-Aug-19	EPA200.8
Thallium	< 0.1	0.1	µg/L	01-Aug-19	EPA200.8
Titanium	11.8	0.1	µg/L	01-Aug-19	EPA200.8

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Uranium	0.2	0.1	µg/L	01-Aug-19	EPA200.8
Vanadium	0.9	0.1	µg/L	01-Aug-19	EPA200.8
Zinc	< 5.0	5	µg/L	01-Aug-19	EPA200.8

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- DATA QUALIFIERS -

Data Qualifier Descriptions:

- 16** *Test requested but no sample bottle received*
- 224** *Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*

*** 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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