



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

**Taiga Batch No.:**  
**200394**

**- FINAL REPORT -**

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**Prepared For:** Community Government of Behchoko

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

**Attn:** Galvin Simpson

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

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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:** Monday, July 20, 2020

**Print Date:** *Monday, July 20, 2020*

*Page 1 of 11*



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Taiga Batch No.:  
**200394**

### - CERTIFICATE OF ANALYSIS -

Client Sample ID: **SNP E2**

Taiga Sample ID: **001**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 08-Jul-20

Sampling Date: 08-Jul-20

Sampling Time: 11:00

Location: Edzo Lagoon

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	8.06	0.005	mg/L	09-Jul-20	SM4500-NH3:G	
Biochemical Oxygen Demand	24	2	mg/L	09-Jul-20	SM5210:B	
CBOD	23	2	mg/L	09-Jul-20	SM5210:B	
Chemical Oxygen Demand	113	5	mg/L	09-Jul-20	SM5220:D	
Nitrogen, Total	16.2	0.06	mg/L	10-Jul-20	ISO/TR 11905:1997(E)	
Organic Carbon, Total	45.0	0.5	mg/L	08-Jul-20	SM5310:B	
Phosphorous, Total	0.642	0.002	mg/L	09-Jul-20	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO <sub>3</sub> )	105	0.4	mg/L	08-Jul-20	SM2320:B	
Conductivity, Specific (@25C)	450	0.4	µS/cm	08-Jul-20	SM2510:B	
pH	8.69		pH units	08-Jul-20	SM4500-H:B	
Solids, Total Suspended	24	3	mg/L	09-Jul-20	SM2540:D	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	400	100	CFU/100mL	09-Jul-20	SM9222:D	
<b><u>Organics</u></b>						

ReportDate: Monday, July 20, 2020

Print Date: **Monday, July 20, 2020**

Page 2 of 11



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## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **SNP E2**

Taiga Sample ID: **001**

Hexane Extractable Material < 2.0 2.0 mg/L 10-Jul-20 EPA1664A

### Subcontracted Inorganics

Calcium 35.7 0.05 mg/L 15-Jul-20 EPA200.2

Magnesium 10.8 0.005 mg/L 15-Jul-20 EPA200.2

NO<sub>2</sub>+NO<sub>3</sub> - N 0.0680 0.022 mg/L 16-Jul-20 EPA300.1

Potassium 7.24 0.05 mg/L 15-Jul-20 EPA200.2

Sodium 21.1 0.05 mg/L 15-Jul-20 EPA200.2

### Subcontracted Organics

Phenols, Total < 0.0010 0.001 mg/L 15-Jul-20 AB ENV.06537

### Trace Metals, Total

Aluminum 333 5 µg/L 14-Jul-20 EPA200.8

Antimony 0.2 0.1 µg/L 14-Jul-20 EPA200.8

Arsenic 0.9 0.2 µg/L 14-Jul-20 EPA200.8

Barium 21.9 0.1 µg/L 14-Jul-20 EPA200.8

Beryllium < 0.1 0.1 µg/L 14-Jul-20 EPA200.8

Bismuth 0.8 0.2 µg/L 14-Jul-20 EPA200.8

Boron 157 0.9 µg/L 14-Jul-20 EPA200.8

Cadmium < 0.1 0.1 µg/L 14-Jul-20 EPA200.8

Cesium < 0.1 0.1 µg/L 14-Jul-20 EPA200.8

Chromium 0.2 0.1 µg/L 14-Jul-20 EPA200.8

Cobalt 0.3 0.1 µg/L 14-Jul-20 EPA200.8

Copper 17.1 0.2 µg/L 14-Jul-20 EPA200.8

Iron 175 5 µg/L 14-Jul-20 EPA200.8

Lead 0.2 0.1 µg/L 14-Jul-20 EPA200.8

Lithium 4.2 0.2 µg/L 14-Jul-20 EPA200.8

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**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: SNP E2**

**Taiga Sample ID: 001**

Manganese	116	0.1	µg/L	14-Jul-20	EPA200.8
Mercury	< 0.01	0.01	µg/L	14-Jul-20	EPA200.8
Molybdenum	0.8	0.1	µg/L	14-Jul-20	EPA200.8
Nickel	1.1	0.1	µg/L	14-Jul-20	EPA200.8
Rubidium	7.6	0.1	µg/L	14-Jul-20	EPA200.8
Selenium	< 0.5	0.5	µg/L	14-Jul-20	EPA200.8
Silver	< 0.1	0.1	µg/L	14-Jul-20	EPA200.8
Strontium	205	0.1	µg/L	14-Jul-20	EPA200.8
Thallium	< 0.1	0.1	µg/L	14-Jul-20	EPA200.8
Tin	0.3	0.1	µg/L	14-Jul-20	EPA200.8
Titanium	4.3	0.1	µg/L	14-Jul-20	EPA200.8
Uranium	0.2	0.1	µg/L	14-Jul-20	EPA200.8
Vanadium	0.3	0.1	µg/L	14-Jul-20	EPA200.8
Zinc	20.1	5	µg/L	14-Jul-20	EPA200.8

**ReportDate:** Monday, July 20, 2020

**Print Date:** *Monday, July 20, 2020*

*Page 4 of 11*



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Taiga Batch No.:  
**200394**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **SNP E3**

Taiga Sample ID: **002**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 08-Jul-20

Sampling Date: 08-Jul-20

Sampling Time: 11:00

Location: Edzo Lagoon

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	18.6	0.005	mg/L	09-Jul-20	SM4500-NH3:G	
Biochemical Oxygen Demand	46	2	mg/L	09-Jul-20	SM5210:B	
CBOD	44	2	mg/L	09-Jul-20	SM5210:B	
Chemical Oxygen Demand	318	100	mg/L	09-Jul-20	SM5220:D	210
Nitrogen, Total	35.0	0.06	mg/L	10-Jul-20	ISO/TR 11905:1997(E)	
Organic Carbon, Total	75.9	0.5	mg/L	08-Jul-20	SM5310:B	
Phosphorous, Total	3.90	0.002	mg/L	09-Jul-20	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO3)	167	0.4	mg/L	08-Jul-20	SM2320:B	
Conductivity, Specific (@25C)	551	0.4	µS/cm	08-Jul-20	SM2510:B	
pH	7.30		pH units	08-Jul-20	SM4500-H:B	
Solids, Total Suspended	408	3	mg/L	09-Jul-20	SM2540:D	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	11200	100	CFU/100mL	09-Jul-20	SM9222:D	
<b><u>Organics</u></b>						
Hexane Extractable Material	8.0	2.0	mg/L	10-Jul-20	EPA1664A	

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Client Sample ID: **SNP E3**

Taiga Sample ID: **002**

**Subcontracted Inorganics**

Calcium	37.2	0.05	mg/L	15-Jul-20	EPA200.2
Magnesium	11.3	0.005	mg/L	15-Jul-20	EPA200.2
NO <sub>2</sub> +NO <sub>3</sub> - N	0.0570	0.022	mg/L	16-Jul-20	EPA300.1
Potassium	7.28	0.05	mg/L	15-Jul-20	EPA200.2
Sodium	20.4	0.05	mg/L	15-Jul-20	EPA200.2

**Subcontracted Organics**

Phenols, Total	0.0033	0.001	mg/L	15-Jul-20	AB ENV.06537
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**Trace Metals, Total**

Aluminum	4330	5	µg/L	14-Jul-20	EPA200.8
Antimony	0.6	0.1	µg/L	14-Jul-20	EPA200.8
Arsenic	2.1	0.2	µg/L	14-Jul-20	EPA200.8
Barium	67.1	0.1	µg/L	14-Jul-20	EPA200.8
Beryllium	< 0.1	0.1	µg/L	14-Jul-20	EPA200.8
Bismuth	8.2	0.2	µg/L	14-Jul-20	EPA200.8
Boron	152	0.9	µg/L	14-Jul-20	EPA200.8
Cadmium	0.2	0.1	µg/L	14-Jul-20	EPA200.8
Cesium	0.1	0.1	µg/L	14-Jul-20	EPA200.8
Chromium	2.2	0.1	µg/L	14-Jul-20	EPA200.8
Cobalt	1.8	0.1	µg/L	14-Jul-20	EPA200.8
Copper	97.4	0.2	µg/L	14-Jul-20	EPA200.8
Iron	3000	5	µg/L	14-Jul-20	EPA200.8
Lead	1.5	0.1	µg/L	14-Jul-20	EPA200.8
Lithium	5.2	0.2	µg/L	14-Jul-20	EPA200.8
Manganese	400	0.1	µg/L	14-Jul-20	EPA200.8

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**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: SNP E3**

**Taiga Sample ID: 002**

Mercury	0.02	0.01	µg/L	14-Jul-20	EPA200.8
Molybdenum	3.7	0.1	µg/L	14-Jul-20	EPA200.8
Nickel	3.6	0.1	µg/L	14-Jul-20	EPA200.8
Rubidium	9.2	0.1	µg/L	14-Jul-20	EPA200.8
Selenium	< 0.5	0.5	µg/L	14-Jul-20	EPA200.8
Silver	0.1	0.1	µg/L	14-Jul-20	EPA200.8
Strontium	226	0.1	µg/L	14-Jul-20	EPA200.8
Thallium	< 0.1	0.1	µg/L	14-Jul-20	EPA200.8
Tin	1.1	0.1	µg/L	14-Jul-20	EPA200.8
Titanium	43.7	0.1	µg/L	14-Jul-20	EPA200.8
Uranium	0.5	0.1	µg/L	14-Jul-20	EPA200.8
Vanadium	2.2	0.1	µg/L	14-Jul-20	EPA200.8
Zinc	125	5	µg/L	14-Jul-20	EPA200.8

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Taiga Batch No.:  
**200394**

## - CERTIFICATE OF ANALYSIS -

Client Sample ID: **E4**

Taiga Sample ID: **003**

Client Project: W2014L3-0002

Sample Type: Sewage

Received Date: 08-Jul-20

Sampling Date: 08-Jul-20

Sampling Time: 11:00

Location: Edzo Lagoon

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	0.011	0.005	mg/L	09-Jul-20	SM4500-NH3:G	
Biochemical Oxygen Demand	16	2	mg/L	09-Jul-20	SM5210:B	
CBOD	17	2	mg/L	09-Jul-20	SM5210:B	
Chemical Oxygen Demand	158	10	mg/L	09-Jul-20	SM5220:D	210
Nitrogen, Total	6.83	0.06	mg/L	10-Jul-20	ISO/TR 11905:1997(E)	
Organic Carbon, Total	39.3	0.5	mg/L	08-Jul-20	SM5310:B	
Phosphorous, Total	0.774	0.002	mg/L	09-Jul-20	SM4500-P:D	
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO3)	117	0.4	mg/L	08-Jul-20	SM2320:B	
Conductivity, Specific (@25C)	579	0.4	µS/cm	08-Jul-20	SM2510:B	
pH	7.19		pH units	08-Jul-20	SM4500-H:B	
Solids, Total Suspended	623	3	mg/L	09-Jul-20	SM2540:D	
<b><u>Microbiology</u></b>						
Coliforms, Fecal	270	10	CFU/100mL	09-Jul-20	SM9222:D	
<b><u>Organics</u></b>						
Hexane Extractable Material	< 2.0	2.0	mg/L	10-Jul-20	EPA1664A	

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Client Sample ID: **E4**

Taiga Sample ID: **003**

**Subcontracted Inorganics**

Calcium	46.8	0.05	mg/L	15-Jul-20	EPA200.2
Magnesium	20.1	0.005	mg/L	15-Jul-20	EPA200.2
NO <sub>2</sub> +NO <sub>3</sub> - N	< 0.0220	0.022	mg/L	16-Jul-20	EPA300.1
Potassium	3.43	0.05	mg/L	15-Jul-20	EPA200.2
Sodium	36.0	0.05	mg/L	15-Jul-20	EPA200.2

**Subcontracted Organics**

Phenols, Total	0.0012	0.001	mg/L	15-Jul-20	AB ENV.06537
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**Trace Metals, Total**

Aluminum	20.7	5	µg/L	14-Jul-20	EPA200.8
Antimony	< 0.1	0.1	µg/L	14-Jul-20	EPA200.8
Arsenic	1.3	0.2	µg/L	14-Jul-20	EPA200.8
Barium	23.3	0.1	µg/L	14-Jul-20	EPA200.8
Beryllium	< 0.1	0.1	µg/L	14-Jul-20	EPA200.8
Bismuth	< 0.2	0.2	µg/L	14-Jul-20	EPA200.8
Boron	119	0.9	µg/L	14-Jul-20	EPA200.8
Cadmium	< 0.1	0.1	µg/L	14-Jul-20	EPA200.8
Cesium	< 0.1	0.1	µg/L	14-Jul-20	EPA200.8
Chromium	0.1	0.1	µg/L	14-Jul-20	EPA200.8
Cobalt	0.3	0.1	µg/L	14-Jul-20	EPA200.8
Copper	0.3	0.2	µg/L	14-Jul-20	EPA200.8
Iron	141	5	µg/L	14-Jul-20	EPA200.8
Lead	< 0.1	0.1	µg/L	14-Jul-20	EPA200.8
Lithium	8.3	0.2	µg/L	14-Jul-20	EPA200.8
Manganese	412	0.1	µg/L	14-Jul-20	EPA200.8

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Mercury	< 0.01	0.01	µg/L	14-Jul-20	EPA200.8
Molybdenum	< 0.1	0.1	µg/L	14-Jul-20	EPA200.8
Nickel	1.4	0.1	µg/L	14-Jul-20	EPA200.8
Rubidium	2.9	0.1	µg/L	14-Jul-20	EPA200.8
Selenium	< 0.5	0.5	µg/L	14-Jul-20	EPA200.8
Silver	< 0.1	0.1	µg/L	14-Jul-20	EPA200.8
Strontium	284	0.1	µg/L	14-Jul-20	EPA200.8
Thallium	< 0.1	0.1	µg/L	14-Jul-20	EPA200.8
Tin	< 0.1	0.1	µg/L	14-Jul-20	EPA200.8
Titanium	0.7	0.1	µg/L	14-Jul-20	EPA200.8
Uranium	< 0.1	0.1	µg/L	14-Jul-20	EPA200.8
Vanadium	0.2	0.1	µg/L	14-Jul-20	EPA200.8
Zinc	< 5.0	5	µg/L	14-Jul-20	EPA200.8

ReportDate: Monday, July 20, 2020

Print Date: *Monday, July 20, 2020*

Page 10 of 11



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**- CERTIFICATE OF ANALYSIS -**

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Client Sample ID: **E4**

Taiga Sample ID: **003**

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**- DATA QUALIFIERS -**

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*Data Qualifier Descriptions:*

**210**     *Detection limit adjusted for required dilution.*

**\* 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: Monday, July 20, 2020

Print Date: *Monday, July 20, 2020*

*Page 11 of 11*