



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

Taiga Batch No.:
210759

- FINAL REPORT -

Prepared For: Community Government of Behchoko

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

Attn: Peter Zoe

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.

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

Taiga Batch No.:
210759

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2021-E2**

Taiga Sample ID: **001**

Client Project: W2014L3-0002

Sample Type: Water

Received Date: 04-Jun-21

Sampling Date: 04-Jun-21

Sampling Time:

Location:

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	17.1	0.005	mg/L	08-Jun-21	SM4500-NH3:G	
Biochemical Oxygen Demand	253	2	mg/L	04-Jun-21	SM5210:B	55
CBOD	260	2	mg/L	04-Jun-21	SM5210:B	55
Nitrogen, Dissolved	21.4	3	mg/L	08-Jun-21	ISO/TR 11905:1997(E)	
Nitrogen, Total	133	3	mg/L	08-Jun-21	ISO/TR 11905:1997(E)	
Ortho-Phosphate as Phosphorus	1.58	0.002	mg/L	07-Jun-21	SM4500-P:D	
Phosphorous, Dissolved	1.64	0.002	mg/L	09-Jun-21	SM4500-P:D	
Phosphorous, Total	27.0	0.002	mg/L	09-Jun-21	SM4500-P:D	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	193	0.4	mg/L	07-Jun-21	SM2320:B	
Conductivity, Specific (@25C)	542	0.4	µS/cm	07-Jun-21	SM2510:B	
pH	6.81		pH units	07-Jun-21	SM4500-H:B	
Solids, Total Dissolved	280	10	mg/L	09-Jun-21	SM2540:C	
Solids, Total Suspended	6000	3	mg/L	09-Jun-21	SM2540:D	

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Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2021-E2**

Taiga Sample ID: **001**

Major Ions

Nitrate+Nitrite as Nitrogen	0.02	0.01	mg/L	07-Jun-21	SM4110:B
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Microbiology

Coliforms, Fecal	>200	1000	CFU/100mL	04-Jun-21	SM9222:D
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Coliforms, Total	>2420	100	MPN/100ml	04-Jun-21	SM9223:B
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Escherichia coli	>2420	100	MPN/100ml	04-Jun-21	SM9223:B
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Taiga Batch No.:
210759

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2021-E3**

Taiga Sample ID: **002**

Client Project: W2014L3-0002

Sample Type: Water

Received Date: 04-Jun-21

Sampling Date: 04-Jun-21

Sampling Time:

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	8.80	0.005	mg/L	08-Jun-21	SM4500-NH3:G	
Biochemical Oxygen Demand	32	2	mg/L	04-Jun-21	SM5210:B	
CBOD	268	2	mg/L	04-Jun-21	SM5210:B	
Nitrogen, Dissolved	12.1	0.06	mg/L	08-Jun-21	ISO/TR 11905:1997(E)	
Nitrogen, Total	15.0	0.06	mg/L	08-Jun-21	ISO/TR 11905:1997(E)	
Ortho-Phosphate as Phosphorus	0.228	0.002	mg/L	07-Jun-21	SM4500-P:D	
Phosphorous, Dissolved	0.290	0.002	mg/L	09-Jun-21	SM4500-P:D	
Phosphorous, Total	0.853	0.002	mg/L	09-Jun-21	SM4500-P:D	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	103	0.4	mg/L	07-Jun-21	SM2320:B	
Conductivity, Specific (@25C)	348	0.4	µS/cm	07-Jun-21	SM2510:B	
pH	7.02		pH units	07-Jun-21	SM4500-H:B	
Solids, Total Dissolved	268	10	mg/L	09-Jun-21	SM2540:C	
Solids, Total Suspended	24	3	mg/L	09-Jun-21	SM2540:D	
<u>Major Ions</u>						
Nitrate+Nitrite as Nitrogen	< 0.01	0.01	mg/L	07-Jun-21	SM4110:B	

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Client Sample ID: **2021-E3**

Taiga Sample ID: **002**

Microbiology

Coliforms, Fecal	82000	1000	CFU/100mL	04-Jun-21	SM9222:D
Coliforms, Total	242000	100	MPN/100ml	04-Jun-21	SM9223:B
Escherichia coli	112000	100	MPN/100ml	04-Jun-21	SM9223:B

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Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2021-E4**

Taiga Sample ID: **003**

Client Project: W2014L3-0002

Sample Type: Water

Received Date: 04-Jun-21

Sampling Date: 04-Jun-21

Sampling Time:

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	2.39	0.005	mg/L	08-Jun-21	SM4500-NH3:G	
Biochemical Oxygen Demand	8	2	mg/L	04-Jun-21	SM5210:B	
CBOD	9	2	mg/L	04-Jun-21	SM5210:B	
Nitrogen, Dissolved	4.19	0.06	mg/L	08-Jun-21	ISO/TR 11905:1997(E)	
Nitrogen, Total	4.94	0.06	mg/L	08-Jun-21	ISO/TR 11905:1997(E)	
Ortho-Phosphate as Phosphorus	0.217	0.002	mg/L	07-Jun-21	SM4500-P:D	
Phosphorous, Dissolved	0.257	0.002	mg/L	09-Jun-21	SM4500-P:D	
Phosphorous, Total	0.435	0.002	mg/L	09-Jun-21	SM4500-P:D	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO3)	55.3	0.4	mg/L	07-Jun-21	SM2320:B	
Conductivity, Specific (@25C)	222	0.4	µS/cm	07-Jun-21	SM2510:B	
pH	6.80		pH units	07-Jun-21	SM4500-H:B	
Solids, Total Dissolved	172	10	mg/L	09-Jun-21	SM2540:C	
Solids, Total Suspended	210	3	mg/L	09-Jun-21	SM2540:D	
<u>Major Ions</u>						
Nitrate+Nitrite as Nitrogen	0.02	0.01	mg/L	07-Jun-21	SM4110:B	

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: 2021-E4

Taiga Sample ID: 003

Microbiology

Coliforms, Fecal	590	10	CFU/100mL	04-Jun-21	SM9222:D
Coliforms, Total	5830	100	MPN/100ml	04-Jun-21	SM9223:B
Escherichia coli	850	100	MPN/100ml	04-Jun-21	SM9223:B

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2021-R3**

Taiga Sample ID: **004**

Client Project: W2014L3-0002

Sample Type: Water

Received Date: 04-Jun-21

Sampling Date: 04-Jun-21

Sampling Time:

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	5.57	0.005	mg/L	08-Jun-21	SM4500-NH3:G	
Biochemical Oxygen Demand	7	2	mg/L	04-Jun-21	SM5210:B	
CBOD	6	2	mg/L	04-Jun-21	SM5210:B	
Nitrogen, Dissolved	7.46	0.06	mg/L	08-Jun-21	ISO/TR 11905:1997(E)	
Nitrogen, Total	8.42	0.06	mg/L	08-Jun-21	ISO/TR 11905:1997(E)	
Ortho-Phosphate as Phosphorus	0.729	0.002	mg/L	07-Jun-21	SM4500-P:D	
Phosphorous, Dissolved	0.786	0.002	mg/L	09-Jun-21	SM4500-P:D	
Phosphorous, Total	1.02	0.002	mg/L	09-Jun-21	SM4500-P:D	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO3)	62.8	0.4	mg/L	07-Jun-21	SM2320:B	
Conductivity, Specific (@25C)	193	0.4	µS/cm	07-Jun-21	SM2510:B	
pH	7.08		pH units	07-Jun-21	SM4500-H:B	
Solids, Total Dissolved	150	10	mg/L	09-Jun-21	SM2540:C	
Solids, Total Suspended	4	3	mg/L	09-Jun-21	SM2540:D	
<u>Major Ions</u>						
Nitrate+Nitrite as Nitrogen	0.04	0.01	mg/L	07-Jun-21	SM4110:B	

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Client Sample ID: **2021-R3**

Taiga Sample ID: **004**

Microbiology

Coliforms, Fecal	< 100	100	CFU/100mL	04-Jun-21	SM9222:D
Coliforms, Total	1100	100	MPN/100ml	04-Jun-21	SM9223:B
Escherichia coli	< 100.0	100	MPN/100ml	04-Jun-21	SM9223:B

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210759

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2021-R4**

Taiga Sample ID: **005**

Client Project: W2014L3-0002

Sample Type: Water

Received Date: 04-Jun-21

Sampling Date: 04-Jun-21

Sampling Time:

Location:

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.007	0.005	mg/L	08-Jun-21	SM4500-NH3:G	
Biochemical Oxygen Demand	6	2	mg/L	04-Jun-21	SM5210:B	
CBOD	6	2	mg/L	04-Jun-21	SM5210:B	
Nitrogen, Dissolved	0.91	0.06	mg/L	08-Jun-21	ISO/TR 11905:1997(E)	
Nitrogen, Total	1.14	0.06	mg/L	08-Jun-21	ISO/TR 11905:1997(E)	
Ortho-Phosphate as Phosphorus	< 0.002	0.002	mg/L	07-Jun-21	SM4500-P:D	
Phosphorous, Dissolved	0.010	0.002	mg/L	09-Jun-21	SM4500-P:D	
Phosphorous, Total	0.075	0.002	mg/L	09-Jun-21	SM4500-P:D	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO3)	27.6	0.4	mg/L	07-Jun-21	SM2320:B	
Conductivity, Specific (@25C)	71.5	0.4	µS/cm	07-Jun-21	SM2510:B	
pH	6.68		pH units	07-Jun-21	SM4500-H:B	
Solids, Total Dissolved	96	10	mg/L	09-Jun-21	SM2540:C	
Solids, Total Suspended	52	3	mg/L	09-Jun-21	SM2540:D	
<u>Major Ions</u>						
Nitrate+Nitrite as Nitrogen	< 0.01	0.01	mg/L	07-Jun-21	SM4110:B	

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2021-R4**

Taiga Sample ID: **005**

Microbiology

Coliforms, Fecal	< 10	10	CFU/100mL	04-Jun-21	SM9222:D
Coliforms, Total	279	10	MPN/100ml	04-Jun-21	SM9223:B
Escherichia coli	< 10.0	10	MPN/100ml	04-Jun-21	SM9223:B

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2021-R4**

Taiga Sample ID: **005**

- DATA QUALIFIERS -

Data Qualifier Descriptions:

55 *BOD result is inconclusive; residual DO was less than 1 mg/L. For evaluation purposes only.*

*** 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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