



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

Taiga Batch No.:
201000

- FINAL REPORT -

Prepared For: Hamlet of Tuktoyaktuk

Address: P.O. Box 120
Tuktoyaktuk, NT
X0E 1C0

Attn: Davy Krengnektak

Facsimile: (867) 977-2110

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.:
201000

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **Sewage Lagoon (SNP-0714-2)**

Taiga Sample ID: **001**

Client Project: Sewage Lagoon + Solid Waste Site

Sample Type: Water

Received Date: 12-Nov-20

Sampling Date: 12-Nov-20

Sampling Time: 8:00

Location: Tuktoyaktuk, NT

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	3.75	0.005	mg/L	23-Nov-20	SM4500-NH3:G	
Biochemical Oxygen Demand	10	2	mg/L	13-Nov-20	SM5210:B	81
<u>Inorganics - Physicals</u>						
pH	8.41		pH units	13-Nov-20	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	16-Nov-20	SM2540:D	
<u>Microbiology</u>						
Coliforms, Fecal	4300	100	CFU/100mL	12-Nov-20	SM9222:D	
<u>Organics</u>						
Hexane Extractable Material	3.2	2.0	mg/L	25-Nov-20	EPA1664A	

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Taiga Batch No.:
201000

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **Solid Waste Site**

Taiga Sample ID: **002**

Client Project: Sewage Lagoon + Solid Waste Site

Sample Type: Water

Received Date: 12-Nov-20

Sampling Date: 12-Nov-20

Sampling Time: 8:00

Location: Tuktoyaktuk, NT

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	3	2	mg/L	13-Nov-20	SM5210:B	
<u>Inorganics - Physicals</u>						
pH	7.73		pH units	13-Nov-20	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	16-Nov-20	SM2540:D	
<u>Microbiology</u>						
Coliforms, Fecal	< 1	1	CFU/100mL	12-Nov-20	SM9222:D	
<u>Subcontracted Organics</u>						
Polychlorinated Biphenyls	< 0.00100	0.001	mg/L	24-Nov-20	EPA3510	
<u>Trace Metals, Total</u>						
Cadmium	0.1	0.1	µg/L	25-Nov-20	EPA200.8	
Chromium	0.5	0.1	µg/L	25-Nov-20	EPA200.8	
Cobalt	0.2	0.1	µg/L	25-Nov-20	EPA200.8	
Copper	7.3	0.2	µg/L	25-Nov-20	EPA200.8	
Iron	314	5	µg/L	25-Nov-20	EPA200.8	
Lead	0.3	0.1	µg/L	25-Nov-20	EPA200.8	
Manganese	71.2	0.1	µg/L	25-Nov-20	EPA200.8	

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **Solid Waste Site**

Taiga Sample ID: **002**

Mercury	0.02	0.01	µg/L	25-Nov-20	EPA200.8
Nickel	5.1	0.1	µg/L	25-Nov-20	EPA200.8
Zinc	46.0	5	µg/L	25-Nov-20	EPA200.8

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Client Sample ID: **Solid Waste Site**

Taiga Sample ID: **002**

- DATA QUALIFIERS -

Data Qualifier Descriptions:

81 *Results are inconclusive due to insufficient depletion of sample, minimum 2 mg/L required over 5 days.*

*** 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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200999

- FINAL REPORT -

Prepared For: Hamlet of Tuktoyaktuk

Address: P.O. Box 120
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Attn: Davy Krengnektak

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Taiga Batch No.:
200999

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **1**

Taiga Sample ID: **001**

Client Project: Water Treatment Plant

Sample Type: Drinking Water (RAW)

Received Date: 12-Nov-20

Sampling Date: 12-Nov-20

Sampling Time: 8:00

Location: Tuktoyaktuk Water Treatment Plant

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Organic Carbon, Dissolved	9.3	0.5	mg/L	13-Nov-20	SM5310:B	
Organic Carbon, Total	9.7	0.5	mg/L	13-Nov-20	SM5310:B	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	70.8	0.4	mg/L	13-Nov-20	SM2320:B	
Colour, True	< 5	5	TCU	13-Nov-20	SM2120:B	
pH	7.48		pH units	13-Nov-20	SM4500-H:B	
Solids, Total Dissolved	133	10	mg/L	16-Nov-20	SM2540:C	
Solids, Total Suspended	< 3	3	mg/L	16-Nov-20	SM2540:D	
Turbidity	0.88	0.05	NTU	13-Nov-20	SM2130:B	
<u>Major Ions</u>						
Chloride	17.8	0.7	mg/L	13-Nov-20	SM4110:B	
Fluoride	< 0.1	0.1	mg/L	13-Nov-20	SM4110:B	
Nitrate as Nitrogen	0.07	0.01	mg/L	13-Nov-20	SM4110:B	
Sulphate	8	1	mg/L	13-Nov-20	SM4110:B	
<u>Subcontracted Inorganics</u>						

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1

Taiga Sample ID: 001

Hardness	76.8	0.6	mg/L	21-Nov-20	EPA200.2
Sodium	10.6	0.05	mg/L	21-Nov-20	EPA200.2
<u>Subcontracted Organics</u>					
Cyanide, Total	< 0.0040	0.004	mg/L	20-Nov-20	APHA4500-CN
<u>Trace Metals, Total</u>					
Aluminum	11.0	0.6	µg/L	19-Nov-20	EPA200.8
Arsenic	0.5	0.2	µg/L	19-Nov-20	EPA200.8
Barium	183	0.1	µg/L	19-Nov-20	EPA200.8
Cadmium	< 0.04	0.04	µg/L	19-Nov-20	EPA200.8
Chromium	< 0.1	0.1	µg/L	19-Nov-20	EPA200.8
Copper	3.8	0.2	µg/L	19-Nov-20	EPA200.8
Iron	232	5	ug/L	19-Nov-20	EPA200.8
Lead	0.5	0.1	µg/L	19-Nov-20	EPA200.8
Manganese	32.4	0.1	µg/L	19-Nov-20	EPA200.8
Mercury	< 0.01	0.01	µg/L	19-Nov-20	EPA200.8
Selenium	< 0.3	0.3	µg/L	19-Nov-20	EPA200.8
Uranium	< 0.1	0.1	µg/L	19-Nov-20	EPA200.8
Zinc	33.1	0.4	µg/L	19-Nov-20	EPA200.8

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Taiga Batch No.:
200999

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2**

Taiga Sample ID: **002**

Client Project: Water Treatment Plant

Sample Type: Drinking Water (TREATED)

Received Date: 12-Nov-20

Sampling Date: 12-Nov-20

Sampling Time: 8:00

Location: Tuktoyaktuk Water Treatment Plant

Report Status: **Final**

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Organic Carbon, Dissolved	9.7	0.5	mg/L	13-Nov-20	SM5310:B	
Organic Carbon, Total	10.0	0.5	mg/L	13-Nov-20	SM5310:B	
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	71.8	0.4	mg/L	13-Nov-20	SM2320:B	
Colour, True	< 5	5	TCU	13-Nov-20	SM2120:B	
pH	7.48		pH units	13-Nov-20	SM4500-H:B	
Solids, Total Dissolved	131	10	mg/L	16-Nov-20	SM2540:C	
Solids, Total Suspended	< 3	3	mg/L	16-Nov-20	SM2540:D	
Turbidity	0.56	0.05	NTU	13-Nov-20	SM2130:B	
<u>Major Ions</u>						
Chloride	20.1	0.7	mg/L	13-Nov-20	SM4110:B	
Fluoride	< 0.1	0.1	mg/L	13-Nov-20	SM4110:B	
Nitrate as Nitrogen	0.03	0.01	mg/L	13-Nov-20	SM4110:B	
Sulphate	8	1	mg/L	13-Nov-20	SM4110:B	
<u>Organics</u>						
Bromodichloromethane	0.016	0.005	mg/L	13-Nov-20	EPA8260B	

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Client Sample ID: **2**

Taiga Sample ID: **002**

Bromoform	< 0.005	0.005	mg/L	13-Nov-20	EPA8260B
Chloroform	0.059	0.005	mg/L	13-Nov-20	EPA8260B
Dibromochloromethane	< 0.005	0.005	mg/L	13-Nov-20	EPA8260B
Trihalomethanes, Total	0.077	0.005	mg/L	13-Nov-20	EPA8260B
<u>Subcontracted Inorganics</u>					
Hardness	80.8	0.6	mg/L	21-Nov-20	EPA200.2
Sodium	12.3	0.05	mg/L	21-Nov-20	EPA200.2
<u>Subcontracted Organics</u>					
Cyanide, Total	< 0.0040	0.004	mg/L	20-Nov-20	APHA4500-CN
<u>Trace Metals, Total</u>					
Aluminum	4.5	0.6	µg/L	19-Nov-20	EPA200.8
Arsenic	0.5	0.2	µg/L	19-Nov-20	EPA200.8
Barium	144	0.1	µg/L	19-Nov-20	EPA200.8
Cadmium	< 0.04	0.04	µg/L	19-Nov-20	EPA200.8
Chromium	< 0.1	0.1	µg/L	19-Nov-20	EPA200.8
Copper	7.4	0.2	µg/L	19-Nov-20	EPA200.8
Iron	88	5	ug/L	19-Nov-20	EPA200.8
Lead	0.6	0.1	µg/L	19-Nov-20	EPA200.8
Manganese	131	0.1	µg/L	19-Nov-20	EPA200.8
Mercury	< 0.01	0.01	µg/L	19-Nov-20	EPA200.8
Selenium	< 0.3	0.3	µg/L	19-Nov-20	EPA200.8
Uranium	< 0.1	0.1	µg/L	19-Nov-20	EPA200.8
Zinc	15.8	0.4	µg/L	19-Nov-20	EPA200.8

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Client Sample ID: **2**

Taiga Sample ID: **002**

*** 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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