



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

Taiga Batch No.:
180077

- FINAL REPORT -

Prepared For: Environment Canada

Address: 123 Main Street
Suite 150
Winnipeg, MB
R3C 4W2

Attn: John MacIver

Facsimile:

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
 - o Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
 - o Environment Canada
 - o 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, March 02, 2018

Print Date: *Friday, March 02, 2018*

Page 1 of 11



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

Taiga Batch No.:
180077

- CERTIFICATE OF ANALYSIS -

Client Sample ID: EULAG

Taiga Sample ID: 001

Client Project:

Sample Type: Water Lagoon

Received Date: 20-Feb-18

Sampling Date: 19-Feb-18

Sampling Time: 17:30

Location: Lagoon/Reverse Osmosis/Tap

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Organic Carbon, Total	2.5	0.5	mg/L	20-Feb-18	SM5310:B	
<u>Inorganics - Physicals</u>						
Solids, Total Dissolved	1430	10	mg/L	20-Feb-18	SM2540:C	
Turbidity	1.34	0.05	NTU	20-Feb-18	SM2130:B	
<u>Major Ions</u>						
Calcium	161	0.1	mg/L	23-Feb-18	SM4110:B	
Hardness	737	0.7	mg/L	23-Feb-18	SM4110:B	
Magnesium	81.6	0.1	mg/L	23-Feb-18	SM4110:B	
Sodium	164	0.1	mg/L	23-Feb-18	SM4110:B	
<u>Microbiology</u>						
Coliforms, Total	< 1.0	1.0	MPN/100ml	20-Feb-18	SM9223:B	
Escherichia coli	< 1.0	1.0	MPN/100ml	20-Feb-18	SM9223:B	
<u>Organics</u>						
Bromodichloromethane	< 0.005	0.005	mg/L	23-Feb-18	EPA8260B	110
Bromoform	< 0.005	0.005	mg/L	23-Feb-18	EPA8260B	110

ReportDate: Friday, March 02, 2018

Print Date: Friday, March 02, 2018

Page 2 of 11



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Client Sample ID: **EULAG**

Taiga Sample ID: **001**

Chloroform	< 0.005	0.005	mg/L	23-Feb-18	EPA8260B	110
Dibromochloromethane	< 0.005	0.005	mg/L	23-Feb-18	EPA8260B	110
Trihalomethanes, Total	< 0.005	0.005	mg/L	23-Feb-18	EPA8260B	110

Trace Metals, Total

Aluminum	13.8	5	µg/L	28-Feb-18	EPA200.8	
Antimony	0.1	0.1	µg/L	28-Feb-18	EPA200.8	
Arsenic	0.3	0.2	µg/L	28-Feb-18	EPA200.8	
Barium	9.1	0.1	µg/L	28-Feb-18	EPA200.8	
Beryllium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8	
Cadmium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8	
Cesium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8	
Chromium	0.2	0.1	µg/L	28-Feb-18	EPA200.8	
Cobalt	0.7	0.1	µg/L	28-Feb-18	EPA200.8	
Copper	0.9	0.2	µg/L	28-Feb-18	EPA200.8	
Iron	16	5	µg/L	28-Feb-18	EPA200.8	
Lead	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8	
Lithium	53.2	0.2	µg/L	28-Feb-18	EPA200.8	
Manganese	90.9	0.1	µg/L	28-Feb-18	EPA200.8	
Molybdenum	0.3	0.1	µg/L	28-Feb-18	EPA200.8	
Nickel	19.6	0.1	µg/L	28-Feb-18	EPA200.8	
Rubidium	3.0	0.1	µg/L	28-Feb-18	EPA200.8	
Selenium	1.2	0.5	µg/L	28-Feb-18	EPA200.8	
Silver	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8	
Strontium	604	0.1	µg/L	28-Feb-18	EPA200.8	
Thallium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8	

ReportDate: Friday, March 02, 2018

Print Date: **Friday, March 02, 2018**

Page 3 of 11



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- CERTIFICATE OF ANALYSIS -

Client Sample ID: EULAG

Taiga Sample ID: 001

Titanium	0.3	0.1	µg/L	28-Feb-18	EPA200.8
Uranium	0.8	0.1	µg/L	28-Feb-18	EPA200.8
Vanadium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
Zinc	< 5.0	5	µg/L	28-Feb-18	EPA200.8

ReportDate: Friday, March 02, 2018
Print Date: *Friday, March 02, 2018*

Page 4 of 11



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Taiga Batch No.:

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: **EURO**

Taiga Sample ID: **002**

Client Project:

Sample Type: Reverse Osmosis

Received Date: 20-Feb-18

Sampling Date: 19-Feb-18

Sampling Time: 16:40

Location: Lagoon/Reverse Osmosis/Tap

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Organic Carbon, Total	< 0.5	0.5	mg/L	20-Feb-18	SM5310:B	
<u>Inorganics - Physicals</u>						
Solids, Total Dissolved	< 10	10	mg/L	20-Feb-18	SM2540:C	
Turbidity	0.11	0.05	NTU	20-Feb-18	SM2130:B	
<u>Major Ions</u>						
Calcium	0.3	0.1	mg/L	23-Feb-18	SM4110:B	
Hardness	0.9	0.7	mg/L	23-Feb-18	SM4110:B	
Magnesium	< 0.1	0.1	mg/L	23-Feb-18	SM4110:B	
Sodium	3.0	0.1	mg/L	23-Feb-18	SM4110:B	
<u>Microbiology</u>						
Coliforms, Total	< 1.0	1.0	MPN/100ml	20-Feb-18	SM9223:B	
Escherichia coli	< 1.0	1.0	MPN/100ml	20-Feb-18	SM9223:B	
<u>Organics</u>						
Bromodichloromethane	0.007	0.005	mg/L	23-Feb-18	EPA8260B	
Bromoform	< 0.005	0.005	mg/L	23-Feb-18	EPA8260B	
Chloroform	0.013	0.005	mg/L	23-Feb-18	EPA8260B	

ReportDate: Friday, March 02, 2018

Print Date: Friday, March 02, 2018

Page 5 of 11



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Client Sample ID: **EURO**

Taiga Sample ID: **002**

Dibromochloromethane	< 0.005	0.005	mg/L	23-Feb-18	EPA8260B
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Trihalomethanes, Total	0.023	0.005	mg/L	23-Feb-18	EPA8260B
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Trace Metals, Total

Aluminum	< 0.6	0.6	µg/L	28-Feb-18	EPA200.8
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Antimony	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
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Arsenic	< 0.2	0.2	µg/L	28-Feb-18	EPA200.8
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Barium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
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Beryllium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
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Cadmium	< 0.04	0.04	µg/L	28-Feb-18	EPA200.8
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Cesium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
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Chromium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
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Cobalt	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
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Copper	75.8	0.2	µg/L	28-Feb-18	EPA200.8
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Iron	< 5	5	ug/L	28-Feb-18	EPA200.8
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Lead	1.1	0.1	µg/L	28-Feb-18	EPA200.8
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Lithium	< 0.2	0.2	µg/L	28-Feb-18	EPA200.8
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Manganese	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
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Molybdenum	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
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Nickel	1.2	0.1	µg/L	28-Feb-18	EPA200.8
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Rubidium	0.1	0.1	µg/L	28-Feb-18	EPA200.8
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Selenium	< 0.3	0.3	µg/L	28-Feb-18	EPA200.8
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Silver	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
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Strontium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
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Thallium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
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Titanium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
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ReportDate: Friday, March 02, 2018

Page 6 of 11

Print Date: **Friday, March 02, 2018**



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Client Sample ID: **EURO**

Taiga Sample ID: **002**

Uranium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
Vanadium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
Zinc	349	0.4	µg/L	28-Feb-18	EPA200.8



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- CERTIFICATE OF ANALYSIS -

Client Sample ID: EUTAP

Taiga Sample ID: 003

Client Project:

Sample Type: TAP - Wx Office

Received Date: 20-Feb-18

Sampling Date: 19-Feb-18

Sampling Time: 16:30

Location: Lagoon/Reverse Osmosis/Tap

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Organic Carbon, Total	2.8	0.5	mg/L	20-Feb-18	SM5310:B	
<u>Inorganics - Physicals</u>						
Solids, Total Dissolved	1190	10	mg/L	20-Feb-18	SM2540:C	
Turbidity	0.26	0.05	NTU	20-Feb-18	SM2130:B	
<u>Major Ions</u>						
Calcium	1.9	0.1	mg/L	23-Feb-18	SM4110:B	
Hardness	7.1	0.7	mg/L	23-Feb-18	SM4110:B	
Magnesium	0.6	0.1	mg/L	23-Feb-18	SM4110:B	
Sodium	413	0.1	mg/L	23-Feb-18	SM4110:B	
<u>Microbiology</u>						
Coliforms, Total	< 1.0	1.0	MPN/100ml	20-Feb-18	SM9223:B	
Escherichia coli	< 1.0	1.0	MPN/100ml	20-Feb-18	SM9223:B	
<u>Organics</u>						
Bromodichloromethane	0.068	0.005	mg/L	23-Feb-18	EPA8260B	
Bromoform	0.051	0.005	mg/L	23-Feb-18	EPA8260B	
Chloroform	0.085	0.005	mg/L	23-Feb-18	EPA8260B	

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Client Sample ID: **EUTAP**

Taiga Sample ID: **003**

Dibromochloromethane	0.092	0.005	mg/L	23-Feb-18	EPA8260B
Trihalomethanes, Total	0.296	0.005	mg/L	23-Feb-18	EPA8260B

Trace Metals, Total

Aluminum	2.7	0.6	µg/L	28-Feb-18	EPA200.8
Antimony	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
Arsenic	< 0.2	0.2	µg/L	28-Feb-18	EPA200.8
Barium	0.2	0.1	µg/L	28-Feb-18	EPA200.8
Beryllium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
Cadmium	< 0.04	0.04	µg/L	28-Feb-18	EPA200.8
Cesium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
Chromium	0.2	0.1	µg/L	28-Feb-18	EPA200.8
Cobalt	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
Copper	153	0.2	µg/L	28-Feb-18	EPA200.8
Iron	38	5	ug/L	28-Feb-18	EPA200.8
Lead	0.2	0.1	µg/L	28-Feb-18	EPA200.8
Lithium	3.4	0.2	µg/L	28-Feb-18	EPA200.8
Manganese	0.3	0.1	µg/L	28-Feb-18	EPA200.8
Molybdenum	0.2	0.1	µg/L	28-Feb-18	EPA200.8
Nickel	0.8	0.1	µg/L	28-Feb-18	EPA200.8
Rubidium	0.8	0.1	µg/L	28-Feb-18	EPA200.8
Selenium	1.0	0.3	µg/L	28-Feb-18	EPA200.8
Silver	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
Strontium	4.9	0.1	µg/L	28-Feb-18	EPA200.8
Thallium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
Titanium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8

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Uranium	0.3	0.1	µg/L	28-Feb-18	EPA200.8
Vanadium	< 0.1	0.1	µg/L	28-Feb-18	EPA200.8
Zinc	26.5	0.4	µg/L	28-Feb-18	EPA200.8



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Client Sample ID: **EUTAP**

Taiga Sample ID: **003**

- DATA QUALIFIERS -

Data Qualifier Descriptions:

110 *Reported result uncertain, due to air in vial.*

*** 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: Friday, March 02, 2018

Print Date: *Friday, March 02, 2018*

Page 11 of 11