



Taiga Environmental Laboratory

4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3

Tel: (867)-669-2788 Fax: (867)-669-2718

Taiga Batch No.:
120499

- FINAL REPORT -

Prepared For: Hamlet of Cambridge Bay
Municipal Works

Address: P.O. Box 16
Cambridge Bay, NU
X0B 0C0

Attn: Wayne Weese

Facsimile: (867) 983-2186

Final report has been reviewed and approved by:


Helene Harper
Manager

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) 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.

Report Date: Thursday, July 26, 2012
Print Date: Thursday, July 26, 2012

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Public Registry

Page 1 of 6



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Taiga Batch No.:
120499

- CERTIFICATE OF ANALYSIS -

Client Sample ID: CAM-5

Taiga Sample ID: 001

Client Project:
Sample Type: Sewage
Received Date: 13-Jul-12
Sampling Date: 12-Jul-12
Sampling Time: 10:00
Location: Cambridge Bay
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	219	0.4	mg/L	13-Jul-12	SM2320:B	
Conductivity, Specific (@ 25°C)	760	0.4	µS/cm	13-Jul-12	SM2510:B	
pH	9.05		pH units	13-Jul-12	SM4500-H:B	
Solids, Total Suspended	114	3	mg/L	13-Jul-12	SM2540:D	
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	7.44	0.01	mg/L	20-Jul-12	SM4500-NH3:	
Biochemical Oxygen Demand	52	2	mg/L	13-Jul-12	SM5210:B	
Organic Carbon, Total	69.7	0.5	mg/L	14-Jul-12	SM5310:B	
<u>Major Ions</u>						
Calcium	42.7	0.1	mg/L	14-Jul-12	SM4110:B	
Chloride	94.2	0.7	mg/L	14-Jul-12	SM4110:B	
Hardness	224	0.7	mg/L	14-Jul-12	SM2340:B	
Magnesium	28.6	0.1	mg/L	14-Jul-12	SM4110:B	
Nitrate as Nitrogen	0.04	0.01	mg/L	14-Jul-12	SM4110:B	

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Page 2 of 6



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Client Sample ID: CAM-5

Taiga Sample ID: 001

Nitrite as Nitrogen	0.14	0.01	mg/L	14-Jul-12	SM4110:B
Potassium	14.6	0.1	mg/L	14-Jul-12	SM4110:B
Sodium	66.3	0.1	mg/L	14-Jul-12	SM4110:B
Sulphate	38	1	mg/L	14-Jul-12	SM4110:B

Microbiology

Coliforms, Fecal	490	10	CFU/100mL	13-Jul-12	SM9222:D
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Organics

Oil and Grease, visible	Non-visible			23-Jul-12	Visual Exam
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Trace Metals, Total

Aluminum	115	5	µg/L	21-Jul-12	EPA200.8
Arsenic	2.2	0.2	µg/L	21-Jul-12	EPA200.8
Cadmium	< 0.1	0.1	µg/L	21-Jul-12	EPA200.8
Chromium	0.5	0.1	µg/L	21-Jul-12	EPA200.8
Cobalt	0.7	0.1	µg/L	21-Jul-12	EPA200.8
Copper	22.6	0.2	µg/L	21-Jul-12	EPA200.8
Iron	1020	5	µg/L	21-Jul-12	EPA200.8
Lead	1.0	0.1	µg/L	21-Jul-12	EPA200.8
Manganese	115	0.1	µg/L	21-Jul-12	EPA200.8
Mercury	< 0.01	0.01	µg/L	21-Jul-12	EPA200.8
Nickel	3.1	0.1	µg/L	21-Jul-12	EPA200.8
Zinc	18	5	µg/L	21-Jul-12	EPA200.8

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Page 3 of 6



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Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: CAM-6

Taiga Sample ID: 002

Client Project:

Sample Type: Sewage

Received Date: 13-Jul-12

Sampling Date: 12-Jul-12

Sampling Time: 10:00

Location: Cambridge Bay

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	216	0.4	mg/L	13-Jul-12	SM2320:B	
Conductivity, Specific (@ 25°C)	746	0.4	µS/cm	13-Jul-12	SM2510:B	
pH	8.84		pH units	13-Jul-12	SM4500-H:B	
Solids, Total Suspended	78	3	mg/L	13-Jul-12	SM2540:D	
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	4.54	0.01	mg/L	20-Jul-12	SM4500-NH ₃ :	
Biochemical Oxygen Demand	34	2	mg/L	13-Jul-12	SM5210:B	
Organic Carbon, Total	66.3	0.5	mg/L	14-Jul-12	SM5310:B	
<u>Major Ions</u>						
Calcium	42.8	0.1	mg/L	14-Jul-12	SM4110:B	
Chloride	90.2	0.7	mg/L	14-Jul-12	SM4110:B	
Hardness	230	0.7	mg/L	14-Jul-12	SM2340:B	
Magnesium	30.0	0.1	mg/L	14-Jul-12	SM4110:B	
Nitrate as Nitrogen	0.03	0.01	mg/L	14-Jul-12	SM4110:B	
Nitrite as Nitrogen	0.17	0.01	mg/L	14-Jul-12	SM4110:B	

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Page 4 of 6



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Client Sample ID: CAM-6

Taiga Sample ID: 002

Potassium	13.7	0.1	mg/L	14-Jul-12	SM4110:B
Sodium	64.5	0.1	mg/L	14-Jul-12	SM4110:B
Sulphate	34	1	mg/L	14-Jul-12	SM4110:B

Microbiology

Coliforms, Fecal	150	10	CFU/100mL	13-Jul-12	SM9222:D
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Organics

Oil and Grease, visible	Non-visible			23-Jul-12	Visual Exam
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Trace Metals, Total

Aluminum	38	5	µg/L	21-Jul-12	EPA200.8
Arsenic	2.4	0.2	µg/L	21-Jul-12	EPA200.8
Cadmium	< 0.1	0.1	µg/L	21-Jul-12	EPA200.8
Chromium	0.3	0.1	µg/L	21-Jul-12	EPA200.8
Cobalt	0.7	0.1	µg/L	21-Jul-12	EPA200.8
Copper	16.8	0.2	µg/L	21-Jul-12	EPA200.8
Iron	735	5	µg/L	21-Jul-12	EPA200.8
Lead	0.4	0.1	µg/L	21-Jul-12	EPA200.8
Manganese	78.0	0.1	µg/L	21-Jul-12	EPA200.8
Mercury	< 0.01	0.01	µg/L	21-Jul-12	EPA200.8
Nickel	3.0	0.1	µg/L	21-Jul-12	EPA200.8
Zinc	14	5	µg/L	21-Jul-12	EPA200.8

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Page 5 of 6



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*** 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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Page 6 of 6