

Northwest Territories Drinking Water Quality Database¹

Treated Water Test Results - Trout Lake

Sample Source:	Trout Lake	Sample ID:	A170385
Sample Location:	Water Truck	Sample Date (m/d/y):	25/11/2015
Location Detail:		Laboratory:	Maxxam Analytics

			<u>GCDWQ</u>		
Physicals	Value	Units	<u>MAC</u>	<u>IMAC</u>	<u>AO</u>
* Alkalinity	82	mg/L	ND		
* Bicarbonate	100	mg/L	ND		
* Carbonate	<0.5	mg/L	ND		
* Conductivity	200	umhos/cm	ND		
* pHec	7.81				6.5 - 8.5
* True Colour	<2	TCU			<=15
* Turbidity	0.19	NTU	0.3/1.0/0.1		

			<u>GCDWQ</u>		
Nutrients	Value	Units	<u>MAC</u>	<u>IMAC</u>	<u>AO</u>
* Dissolved Nitrate (N)	0.021	mg/L			
* Dissolved Nitrate (NO ₃)	0.095	mg/L			
* Dissolved Nitrite (N)	<0.01	mg/L			
* Dissolved Nitrite (NO ₂)	<0.033	mg/L			
* Dissolved Organic Carbon	12	mg/L	ND		

¹http://www.nwtdrinkingwater.ca/operations/water/chemResultsSQL_raw.asp?Community=16&TestID=33236

<u>* Nitrate + Nitrite as Na</u>	0.021	mg/L			
<u>* Nitrate-N</u>		mg/L	45		
* Phosphorous	<0.1	mg/L	ND		
<u>* Total Dissolved Solidsa</u>	110	mg/L			
* Total Organic Carbon	12	mg/L	ND		
<u>* Total Suspended Solidsa</u>	<1	mg/L			

			<u>GCDWQ</u>		
<u>Organics</u>	Value	Units	<u>MAC</u>	<u>IMAC</u>	<u>AO</u>
<u>* Cyanide</u>	<0.001	mg/L	0.20		
* THM-Bromodichloromethane	0.004	mg/L			0.016
* THM-Bromoform	<0.0005	mg/L			
* THM-Chlorodibromomethane	<0.001	mg/L			
* THM-Chloroform	0.160	mg/L			
<u>* Total Trihalomethanes (THM's)</u>	0.170	mg/L	0.1		

			<u>GCDWQ</u>		
<u>Major Ions</u>	Value	Units	<u>MAC</u>	<u>IMAC</u>	<u>AO</u>
* Calcium	27	mg/L	ND		
<u>* Chloride</u>		mg/L			<=250
* Dissolved Calcium	27	mg/L			
* Dissolved Chloride	9.2	mg/L			
* Dissolved Fluoride	0.05	mg/L			
* Dissolved Magnesium	5.2	mg/L			
* Dissolved Potassium	0.7	mg/L			
* Dissolved Sodium	9.6	mg/L			
* Dissolved Sulphate	5.2	mg/L			
<u>* Fluoride</u>		mg/L	1.5		
* Magnesium	5.3	mg/L	ND		
* Potassium	0.68	mg/L	ND		
<u>* Sodium</u>	12	mg/L			<=200

<u>* Sulphate</u>		mg/L		<=500
<u>* Total Hardness</u>	88	mg/L	ND	

			GCDWQ		
Ions	Value	Units	MAC	IMAC	AO
* Anion Sum		me/L			
* Cation Sum		me/L			
* Hydroxide	<0.5	mg/L			
* Silicon	2.8	mg/L			
* Sulphur	2	mg/L			

			GCDWQ		
Metals - Total	Value	Units	MAC	IMAC	AO
<u>* Aluminum</u>	0.071	mg/L			0.1/0.2
* Antimony	<0.0006	mg/L		0.006	
<u>* Arsenic</u>	0.00038	mg/L	0.01		
<u>* Barium</u>	0.034	mg/L	1.0		
* Beryllium	<0.001	mg/L	ND		
* Boron	<0.02	mg/L		5.0	
<u>* Cadmium</u>	<0.00002	mg/L	0.005		
<u>* Chromium</u>	<0.01	mg/L	0.05		
* Cobalt	<0.0003	mg/L	ND		
<u>* Copper</u>	0.0063	mg/L			<=1.0
<u>* Iron</u>	<0.06	mg/L			<=0.3
<u>* Lead</u>	<0.0002	mg/L	0.010		
* Lithium	<0.02	mg/L	ND		
<u>* Manganese</u>	0.012	mg/L			<=0.05
<u>* Mercury</u>	<0.000005	mg/L	0.001		
* Molybdenum	0.00027	mg/L	ND		
* Nickel	0.00051	mg/L	ND		
<u>* Selenium</u>	<0.0002	mg/L	0.01		
* Silver	<0.0001	mg/L	ND		
* Strontium	0.048	mg/L	ND		
* Thallium	<0.0002	mg/L	ND		
* Tine	<0.001	mg/L			
* Titanium	<0.001	mg/L	ND		
<u>* Uranium</u>	<0.0001	mg/L		0.02	

* Vanadium	0.002	mg/L	ND		
<u>* Zinc</u>	0.0058	mg/L			<=5.0

			<u>GCDWQ</u>		
Metals - Dissolved	Value	Units	<u>MAC</u>	<u>IMAC</u>	<u>AO</u>
<u>* Dissolved Iron</u>	<0.06	mg/L			
<u>* Dissolved Manganese</u>	0.012	mg/L			

GCDWQ - Guidelines for Canadian Drinking Water Quality

MAC - Maximum Acceptable Concentration

IMAC - Interim Maximum Acceptable Concentration

AO - Aesthetic Objective

ND - Not Defined

Northwest Territories Drinking Water Quality Database²

Raw Water Test Results - Trout Lake

Sample Source:	Trout Lake	Sample ID:	290255-003
Sample Location:	Water Truck	Sample Date (m/d/y):	11/06/2009
Location Detail:		Laboratory:	Taiga Environmental Laboratory (Yellowknife)

			<u>GCDWQ</u>		
Physicals	Value	Units	<u>MAC</u>	<u>IMAC</u>	<u>AO</u>
<u>* pHec</u>	8.45				6.5 - 8.5
<u>* True Colour</u>	20	TCU			<=15
<u>* Turbidity</u>	0.61	NTU	0.3/1.0/0.1		

			<u>GCDWQ</u>		
Nutrients	Value	Units	<u>MAC</u>	<u>IMAC</u>	<u>AO</u>
<u>* Nitrate-N</u>	<0.01	mg/L	45		

²http://www.nwtdrinkingwater.ca/operations/water/chemResultsSQL_raw.asp?Community=16&TestID=17842

<u>* Total Dissolved Solids</u>	56	mg/L			
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			<u>GCDWQ</u>		
<u>Organics</u>	Value	Units	<u>MAC</u>	<u>IMAC</u>	<u>AO</u>
<u>* Cyanide</u>		mg/L	0.20		
* THM-Bromodichloromethane		mg/L			0.016
<u>* Total Trihalomethanes (THM's)</u>		mg/L	0.1		

			<u>GCDWQ</u>		
<u>Major Ions</u>	Value	Units	<u>MAC</u>	<u>IMAC</u>	<u>AO</u>
<u>* Chloride</u>	<.0007	mg/L			<=250
<u>* Fluoride</u>	<.0001	mg/L	1.5		
<u>* Sodium</u>	1.6	mg/L			<=200
<u>* Sulphate</u>	3	mg/L			<=500

			<u>GCDWQ</u>		
<u>Metals - Total</u>	Value	Units	<u>MAC</u>	<u>IMAC</u>	<u>AO</u>
<u>* Aluminum</u>		mg/L			0.1/0.2
<u>* Arsenic</u>		mg/L	0.01		
<u>* Barium</u>		mg/L	1.0		
<u>* Cadmium</u>	<.00005	mg/L	0.005		
<u>* Chromium</u>	.0001	mg/L	0.05		
<u>* Copper</u>	.0133	mg/L			<=1.0
<u>* Iron</u>	.043	mg/L			<=0.3
<u>* Lead</u>	.0009	mg/L	0.010		
<u>* Manganese</u>	.0011	mg/L			<=0.05
<u>* Mercury</u>		mg/L	0.001		
<u>* Selenium</u>		mg/L	0.01		
<u>* Uranium</u>		mg/L		0.02	
<u>* Zinc</u>	.0251	mg/L			<=5.0

GCDWQ - Guidelines for Canadian Drinking Water Quality

MAC - Maximum Acceptable Concentration

IMAC - Interim Maximum Acceptable Concentration

AO - Aesthetic Objective

ND - Not Defined

Northwest Territories Drinking Water Quality Database³

Treated Water Test Results - Trout Lake

Sample Source:	Trout Lake	Sample ID:	colilert report
Sample Location:	Water Treatment Plant	Sample Date (m/d/y):	25/10/2016
Location Detail:		Laboratory:	In House (Colilert System)

<u>Ecoli Present (Yes/No)</u>	No	
<u>Total Coliforms Present (Yes/No)</u>	No	

Public Drinking Water Supply Systems

1. No sample should contain Escherichia coli. E. coli indicates recent faecal contamination and the possible presence of enteric pathogens that may adversely affect human health. If E. coli is confirmed, the appropriate agencies should be notified, a [boil water advisory](#) should be issued, and corrective actions taken.

2. No consecutive samples from the same site or not more than 10% of samples from the distribution system in a given calendar month should show the presence of total coliform bacteria. The ability of total coliforms to indicate the presence of faecal pollution is less reliable than E. coli. However, this group of bacteria is a good indicator of quality control. The presence of total coliforms does not necessarily require the issuance of a [boil water advisory](#) but corrective actions should be taken.

For more information please visit the [GCDWQ website](#).

³http://www.nwtdrinkingwater.ca/operations/water/bactResultsSQL_raw.asp?Community2=16&TestID=35884

From: Gary Strong
To: Wong Li, Joanne
Date: Wed, Aug 3, 2005 12:12 PM
Subject: Fwd: FW: Final Results 252002_2004

Sample results attached.

g

>>> <Olivia_Lee@gov.nt.ca> 08/03/05 11:09 AM >>>
Gary,

Attached are the results of the bacteriological sample results from Trout Lake at the 3 locations (the gov. dock, the creek near the sewage lagoon, and the culvert) you had asked us to collect samples.

Have a great day.
Olivia

-----Original Message-----

From: yorstonk /unix [<mailto:yorstonk@inac-ainc.gc.ca>]
Sent: Tuesday, August 02, 2005 3:31 PM
To: Olivia Lee /YK /MACA
Subject: Final Results 252002_2004

Hi, Here are your final results, hard copy is in the mail.
Thank-you,

Karen Yorston
Administrative Coordinator
Taiga Environmental Lab
867-669-2788
yorstonk@inac.gc.ca

Client Name	Large Sample ID	Client Sample ID	Sample Type	Sampling Location
MACA	252002	Creek (Near Sewage)	Freshwater	Trout Lake
MACA	252002	Creek (Near Sewage)	Freshwater	Trout Lake
MACA	252003	Culvert	Freshwater	Trout Lake
MACA	252003	Culvert	Freshwater	Trout Lake
MACA	252004	Island River (gov. dock)	Freshwater	Trout Lake
MACA	252004	Island River (gov. dock)	Freshwater	Trout Lake

Sample Collect Date	Sample Received Date	Test Group Name	Lab Section
7/19/05	20-Jul-05	Total Coliforms in other water types	Micro. (w)
7/19/05	20-Jul-05	Fecal Streptococcus	Micro. (w)
7/19/05	20-Jul-05	Total Coliforms in other water types	Micro. (w)
7/19/05	20-Jul-05	Fecal Streptococcus	Micro. (w)
7/19/05	20-Jul-05	Total Coliforms in other water types	Micro. (w)
7/19/05	20-Jul-05	Fecal Streptococcus	Micro. (w)

Parameter Name	Result Flag	Reported Result	Units	Calc MDL
Coliforms, Total		2480	MPN/100mL	10.0
Fecal streptococcus		9.7	MPN/100mL	1.0
Coliforms, Total		2100	MPN/100mL	10.0
Fecal streptococcus		14.5	MPN/100mL	1.0
Coliforms, Total		2420	MPN/100mL	1.0
Fecal streptococcus		8.6	MPN/100mL	1.0

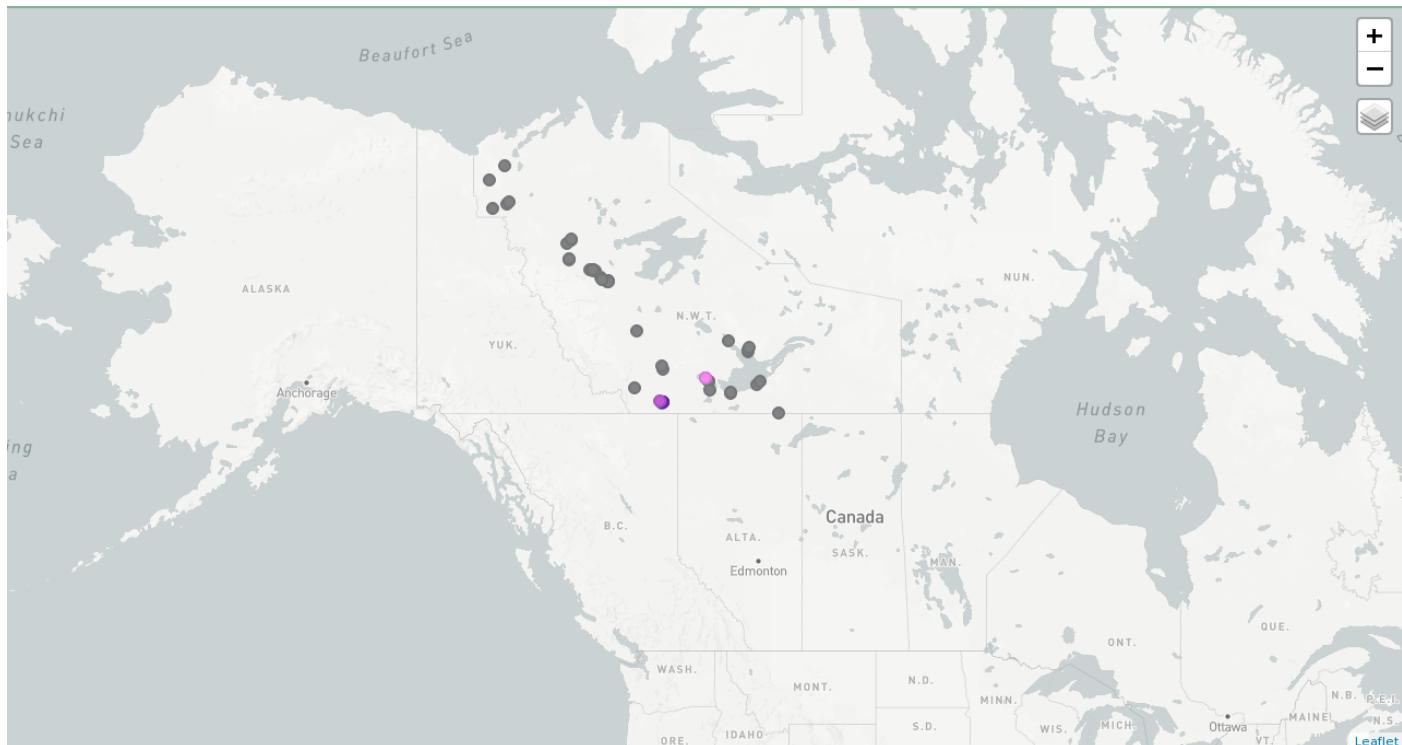
Sample	Result Qual	ysis Result Qual	Analysis Date	Prep Method	Test Method	Report Status
			7/20/2005	none	SM9223:B	Final
			7/20/2005	none	IDEXX	Final
			7/20/2005	none	SM9223:B	Final
			7/20/2005	none	IDEXX	Final
			7/20/2005	none	SM9223:B	Final
			7/20/2005	none	IDEXX	Final

NWT-wide Community-based Water Quality Monitoring Program

Mackenzie DataStream

PMD Data - hydrocarbons

PMD (Polyethylene Membrane Devices) are passive samplers that stay in the water for one month, up to 4 times per summer, to measure oil and gas-related chemicals (hydrocarbons) dissolved in water. PMDs act like sponges and pick hydrocarbons in the water. PMDs are so sensitive that, if a cigarette smokers handles the PMDs, the hydrocarbons on their breath can affect the results.



Meta Information

Program ID: 3

Title: NWT-wide Community-based Water Quality Monitoring Program

Description: data from 2012 onward

Last Updated: 11/7/2016

Contact Information

Contact Type:

First Name:

Last Name:

Place Of Employment:

Email: enrsteward@gmail.com

Organization:

Location:



This information was obtained on Mackenzie DataStream. To access more data, maps and charts visit: www.MackenzieDataStream.ca

Date Accessed: Thu May 17 2018

Program Information

Name: NWT-Wide Community based Water Quality Monitoring Program

DOI: TESTDOI3

Citation: NWT-wide Community-based Water Quality Monitoring Program

Character Set:

Purpose: To support communities to address concerns about water quality in the NWT

Info: Open water season data starting in 2012

Constraints: UseLimitation

ISO Category: Inland Waters

PDC Keywords: Water Quality, Surface, Water, Hydrocarbons, Mercury, Heavy Metals

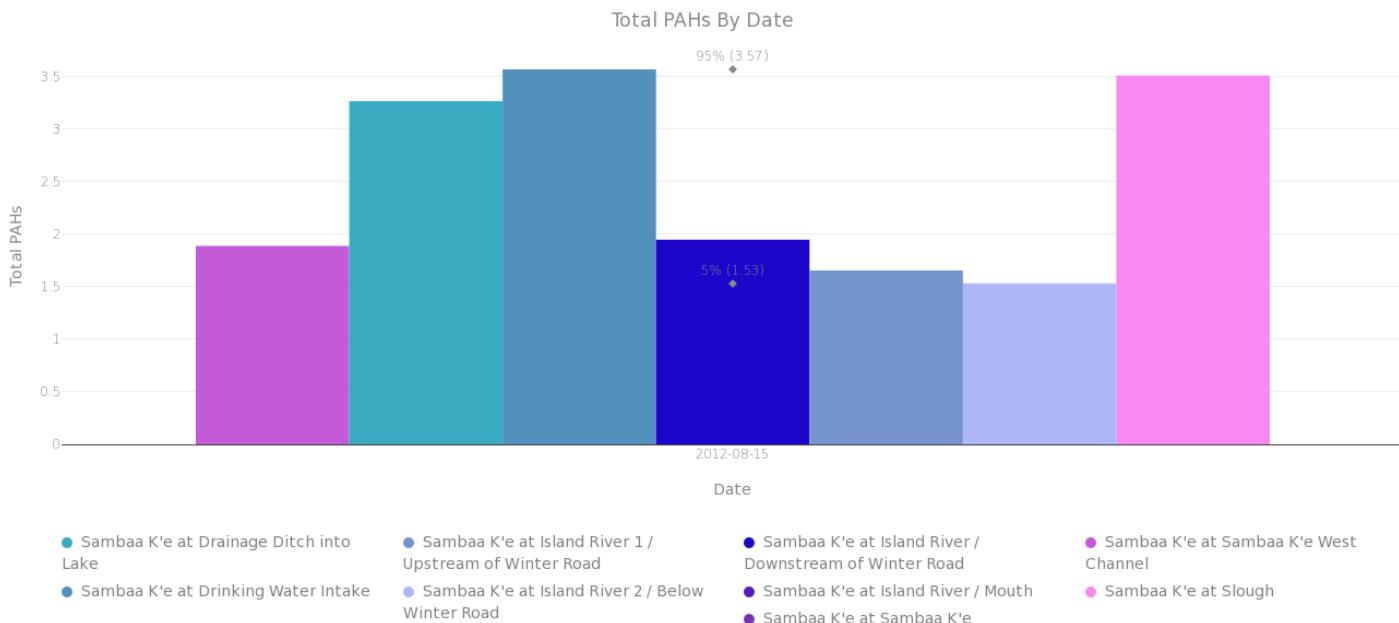
Bounding Box: North: 66.266443 South: 65.244095 West: -129.070457 East: -126.582955

Start Date: 6/1/2012

End Date:

Abstract: Community-based monitoring fosters a wide range of innovations, including increased awareness of water stewardship issues, improved traditional knowledge collection and application as well as increased direct community involvement in research and monitoring program design. The Government of the Northwest Territories (GNWT) provides information about monitoring parameters and provides equipment and other monitoring resources for community-based projects. Throughout the development of the Water Strategy, many communities expressed concerns about their water and the health of aquatic ecosystems and had an interest in developing and implementing community-based monitoring programs to address these concerns.

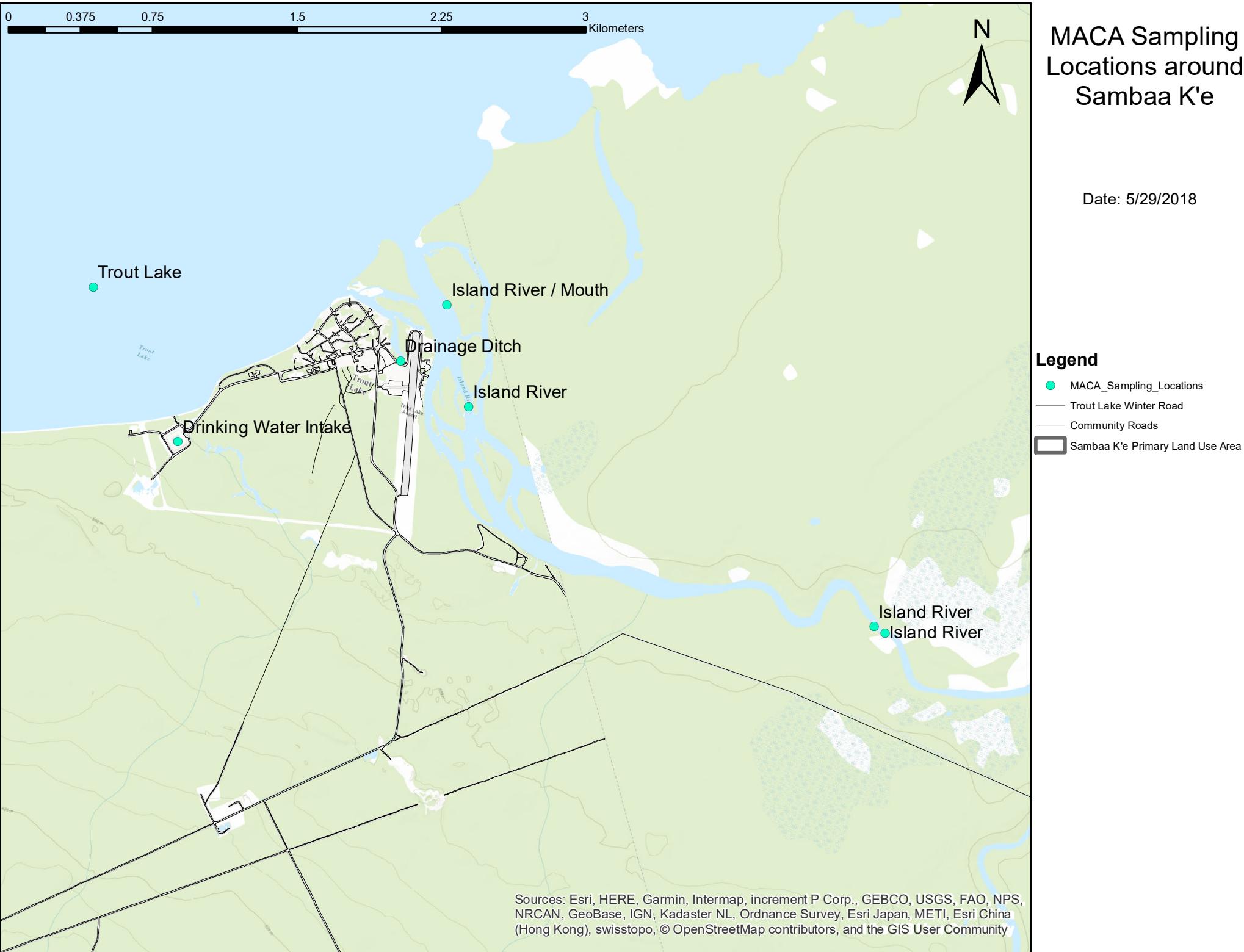
Visualization



Summary Statistics

Location

	Count	Min	Max	Mean	SD	5	10	1Q	Median	3Q	90	95
Sambaa K'e At Sambaa K'e West Channelat Sambaa K'e at Sambaa K'e West Channel	1	1.89	1.89	1.89	0.00	1.89	1.89	1.89	1.89	1.89	1.89	1.89
Sambaa K'e At Drainage Ditch Into Lakeat Sambaa K'e at Drainage Ditch into Lake	1	3.27	3.27	3.27	0.00	3.27	3.27	3.27	3.27	3.27	3.27	3.27
Sambaa K'e At Drinking Water Intakeat Sambaa K'e at Drinking Water Intake	1	3.57	3.57	3.57	0.00	3.57	3.57	3.57	3.57	3.57	3.57	3.57
Sambaa K'e At Island River / Downstream Of Winter Roadat Sambaa K'e at Island River / Downstream of Winter Road	1	1.95	1.95	1.95	0.00	1.95	1.95	1.95	1.95	1.95	1.95	1.95
Sambaa K'e At Island River 1 / Upstream Of Winter Roadat Sambaa K'e at Island River 1 / Upstream of Winter Road	1	1.66	1.66	1.66	0.00	1.66	1.66	1.66	1.66	1.66	1.66	1.66
Sambaa K'e At Island River 2 / Below Winter Roadat Sambaa K'e at Island River 2 / Below Winter Road	1	1.53	1.53	1.53	0.00	1.53	1.53	1.53	1.53	1.53	1.53	1.53
Sambaa K'e At Sloughat Sambaa K'e at Slough	1	3.51	3.51	3.51	0.00	3.51	3.51	3.51	3.51	3.51	3.51	3.51
Total Selected Locations	7	1.53	3.57	2.48	0.85	1.53	1.53	1.66	1.95	3.51	3.57	3.57





Taiga Batch No.:

110478

Taiga Environmental Laboratory

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

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

- FINAL REPORT -

Prepared For: Water Resources Division

AANDC

Address: Box 1500

Yellowknife, NT
X1A 2R3

Attn: Andrea Czarnecki

Facsimile: (867) 669-2716

Final report has been reviewed and approved by:

Pfleiderer

Angelique Ruzindana

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) 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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Print Date: Saturday, August 20, 2011



Taiga Environmental Laboratory

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

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

Taiga Batch No.:
110478

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **TL001**

Taiga Sample ID: **001**

Client Project: Trout Lake Drum & Bog Sampling

Sample Type: Groundwater

Received Date: 05-Aug-11

Sampling Date: 05-Aug-11

Sampling Time: 7:30

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Inorganics - Physicals						
Alkalinity, Total (as CaCO ₃)	< 0.4	0.4	mg/L	05-Aug-11	SM2320:B	
Colour, True	328	5	TCU	06-Aug-11	SM2120:B	
pH	4.57		pH units	05-Aug-11	SM4500-H:B	
Solids, Total Dissolved	114	10	mg/L	12-Aug-11	SM2540:C	
Solids, Total Suspended	< 3	3	mg/L	12-Aug-11	SM2540:D	
Turbidity	0.45	0.05	NTU	06-Aug-11	SM2130:B	
Inorganics - Nutrients						
Organic Carbon, Dissolved	47.3	0.5	mg/L	08-Aug-11	SM5310:B	
Organic Carbon, Total	51.3	0.5	mg/L	09-Aug-11	SM5310:B	
Major Ions						
Chloride	< 0.7	0.7	mg/L	08-Aug-11	SM4110:B	
Fluoride	< 0.1	0.1	mg/L	08-Aug-11	SM4110:B	
Hardness	14.8	0.7	mg/L	08-Aug-11	SM2340:B	
Nitrate as Nitrogen	0.01	0.01	mg/L	08-Aug-11	SM4110:B	

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Taiga Environmental Laboratory

Taiga Batch No.:
110478

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **TL001**

Taiga Sample ID: **001**

Sodium	0.6	0.1	mg/L	08-Aug-11	SM4110:B
Sulphate	< 1	1	mg/L	08-Aug-11	SM4110:B

Microbiology

Coliforms, Total	771	10.0	MPN/100mL	05-Aug-11	SM9223:B	6
Escherichia coli	< 1.0	1.0	MPN/100mL	05-Aug-11	SM9223:B	6

Trace Metals, Total

Aluminum	88	5	µg/L	17-Aug-11	EPA200.8
Arsenic	0.3	0.2	µg/L	17-Aug-11	EPA200.8
Barium	3.5	0.1	µg/L	17-Aug-11	EPA200.8
Cadmium	< 0.1	0.1	µg/L	17-Aug-11	EPA200.8
Chromium	0.3	0.1	µg/L	17-Aug-11	EPA200.8
Copper	0.5	0.2	µg/L	17-Aug-11	EPA200.8
Iron	47	5	µg/L	17-Aug-11	EPA200.8
Lead	< 0.1	0.1	µg/L	17-Aug-11	EPA200.8
Manganese	4.6	0.1	µg/L	17-Aug-11	EPA200.8
Mercury	0.01	0.01	µg/L	17-Aug-11	EPA200.8
Selenium	< 0.5	0.5	µg/L	17-Aug-11	EPA200.8
Uranium	< 0.1	0.1	µg/L	17-Aug-11	EPA200.8
Zinc	< 5	5	µg/L	17-Aug-11	EPA200.8

Trace Metals, Ultra Low

Mercury	1.01	0.2	ng/L	20-Aug-11	EPA 245.7
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Subcontracted Organics

Cyanide, Weak Acid Dissociable	< 0.002	0.002	mg/L	10-Aug-11	SM4500-CN:I
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Taiga Environmental Laboratory

Taiga Batch No.:
110478

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **TL002**

Taiga Sample ID: **002**

Client Project: Trout Lake Drum & Bog Sampling

Sample Type: Rain Water

Received Date: 05-Aug-11

Sampling Date: 05-Aug-11

Sampling Time: 8:30

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Inorganics - Physicals						
Alkalinity, Total (as CaCO ₃)	1.2	0.4	mg/L	05-Aug-11	SM2320:B	
Colour, True	< 5	5	TCU	06-Aug-11	SM2120:B	
pH	6.28		pH units	05-Aug-11	SM4500-H:B	
Solids, Total Dissolved	14	10	mg/L	12-Aug-11	SM2540:C	
Solids, Total Suspended	6	3	mg/L	12-Aug-11	SM2540:D	
Turbidity	0.45	0.05	NTU	06-Aug-11	SM2130:B	
Inorganics - Nutrients						
Organic Carbon, Dissolved	0.7	0.5	mg/L	08-Aug-11	SM5310:B	
Organic Carbon, Total	0.9	0.5	mg/L	09-Aug-11	SM5310:B	
Major Ions						
Chloride	< 0.7	0.7	mg/L	08-Aug-11	SM4110:B	
Fluoride	< 0.1	0.1	mg/L	08-Aug-11	SM4110:B	
Hardness	2.2	0.7	mg/L	08-Aug-11	SM2340:B	
Nitrate as Nitrogen	0.01	0.01	mg/L	08-Aug-11	SM4110:B	
Sodium	< 0.1	0.1	mg/L	08-Aug-11	SM4110:B	

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Taiga Batch No.:
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Tel: (867)-669-2788 Fax: (867)-669-2718

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **TL002**

Taiga Sample ID: **002**

Sulphate	< 1	1	mg/L	08-Aug-11	SM4110:B
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Microbiology

Coliforms, Total	1.0	1.0	MPN/100mL	05-Aug-11	SM9223:B
Escherichia coli	< 1.0	1.0	MPN/100mL	05-Aug-11	SM9223:B

Trace Metals, Total

Aluminum	2.9	0.6	µg/L	17-Aug-11	EPA200.8
Arsenic	< 0.2	0.2	µg/L	17-Aug-11	EPA200.8
Barium	2.0	0.1	µg/L	17-Aug-11	EPA200.8
Cadmium	0.07	0.05	µg/L	17-Aug-11	EPA200.8
Chromium	0.2	0.1	µg/L	17-Aug-11	EPA200.8
Copper	< 0.2	0.2	µg/L	17-Aug-11	EPA200.8
Iron	69	5	µg/L	17-Aug-11	EPA200.8
Lead	0.2	0.1	µg/L	17-Aug-11	EPA200.8
Manganese	3.1	0.1	µg/L	17-Aug-11	EPA200.8
Mercury	0.01	0.01	µg/L	17-Aug-11	EPA200.8
Selenium	< 0.3	0.3	µg/L	17-Aug-11	EPA200.8
Uranium	< 0.1	0.1	µg/L	17-Aug-11	EPA200.8
Zinc	83.3	0.4	µg/L	17-Aug-11	EPA200.8

Trace Metals, Ultra Low

Mercury	6.67	0.2	ng/L	20-Aug-11	EPA 245.7
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Subcontracted Organics

Cyanide, Weak Acid Dissociable	< 0.002	0.002	mg/L	10-Aug-11	SM4500-CN:I
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Taiga Environmental Laboratory

Taiga Batch No.:
110478

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: TL003

Taiga Sample ID: 003

Client Project: Trout Lake Drum & Bog Sampling

Sample Type: Groundwater

Received Date: 05-Aug-11

Sampling Date: 05-Aug-11

Sampling Time: 10:00

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Inorganics - Physicals						
Alkalinity, Total (as CaCO ₃)	< 0.4	0.4	mg/L	05-Aug-11	SM2320:B	
Colour, True	280	5	TCU	06-Aug-11	SM2120:B	
pH	4.51		pH units	05-Aug-11	SM4500-H:B	
Solids, Total Dissolved	88	10	mg/L	12-Aug-11	SM2540:C	
Solids, Total Suspended	< 3	3	mg/L	12-Aug-11	SM2540:D	
Turbidity	0.50	0.05	NTU	06-Aug-11	SM2130:B	
Inorganics - Nutrients						
Organic Carbon, Dissolved	38.7	0.5	mg/L	08-Aug-11	SM5310:B	
Organic Carbon, Total	44.1	0.5	mg/L	09-Aug-11	SM5310:B	
Major Ions						
Chloride	< 0.7	0.7	mg/L	08-Aug-11	SM4110:B	
Fluoride	< 0.1	0.1	mg/L	08-Aug-11	SM4110:B	
Hardness	13.5	0.7	mg/L	08-Aug-11	SM2340:B	
Nitrate as Nitrogen	0.01	0.01	mg/L	08-Aug-11	SM4110:B	
Sodium	0.3	0.1	mg/L	08-Aug-11	SM4110:B	

Report Date: Saturday, August 20, 2011

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Taiga Environmental Laboratory

Taiga Batch No.:
110478

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **TL003**

Taiga Sample ID: **003**

Sulphate	< 1	1	mg/L	08-Aug-11	SM4110:B
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Microbiology

Coliforms, Total	216	10.0	MPN/100mL	05-Aug-11	SM9223:B
Escherichia coli	< 1.0	1.0	MPN/100mL	05-Aug-11	SM9223:B

Trace Metals, Total

Aluminum	80	5	µg/L	17-Aug-11	EPA200.8
Arsenic	< 0.2	0.2	µg/L	17-Aug-11	EPA200.8
Barium	2.7	0.1	µg/L	17-Aug-11	EPA200.8
Cadmium	< 0.1	0.1	µg/L	17-Aug-11	EPA200.8
Chromium	0.2	0.1	µg/L	17-Aug-11	EPA200.8
Copper	0.3	0.2	µg/L	17-Aug-11	EPA200.8
Iron	35	5	µg/L	17-Aug-11	EPA200.8
Lead	< 0.1	0.1	µg/L	17-Aug-11	EPA200.8
Manganese	0.6	0.1	µg/L	17-Aug-11	EPA200.8
Mercury	0.01	0.01	µg/L	17-Aug-11	EPA200.8
Selenium	< 0.5	0.5	µg/L	17-Aug-11	EPA200.8
Uranium	< 0.1	0.1	µg/L	17-Aug-11	EPA200.8
Zinc	< 5	5	µg/L	17-Aug-11	EPA200.8

Trace Metals, Ultra Low

Mercury	0.62	0.2	ng/L	20-Aug-11	EPA 245.7
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Subcontracted Organics

Cyanide, Weak Acid Dissociable	< 0.002	0.002	mg/L	10-Aug-11	SM4500-CN:I
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Taiga Environmental Laboratory

Taiga Batch No.:
110478

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **TL004**

Taiga Sample ID: **004**

Client Project: Trout Lake Drum & Bog Sampling

Sample Type: Rain Water

Received Date: 05-Aug-11

Sampling Date: 05-Aug-11

Sampling Time: 11:00

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Inorganics - Physicals						
Alkalinity, Total (as CaCO ₃)	4.6	0.4	mg/L	05-Aug-11	SM2320:B	
Colour, True	< 5	5	TCU	06-Aug-11	SM2120:B	
pH	6.91		pH units	05-Aug-11	SM4500-H:B	
Solids, Total Dissolved	12	10	mg/L	12-Aug-11	SM2540:C	
Solids, Total Suspended	< 3	3	mg/L	12-Aug-11	SM2540:D	
Turbidity	1.14	0.05	NTU	06-Aug-11	SM2130:B	
Inorganics - Nutrients						
Organic Carbon, Dissolved	0.9	0.5	mg/L	08-Aug-11	SM5310:B	
Organic Carbon, Total	1.2	0.5	mg/L	09-Aug-11	SM5310:B	
Major Ions						
Chloride	< 0.7	0.7	mg/L	08-Aug-11	SM4110:B	
Fluoride	< 0.1	0.1	mg/L	08-Aug-11	SM4110:B	
Hardness	5.4	0.7	mg/L	08-Aug-11	SM2340:B	
Nitrate as Nitrogen	< 0.01	0.01	mg/L	08-Aug-11	SM4110:B	
Sodium	< 0.1	0.1	mg/L	08-Aug-11	SM4110:B	

Report Date: Saturday, August 20, 2011

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Taiga Environmental Laboratory

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

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

Taiga Batch No.:
110478

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **TL004**

Taiga Sample ID: **004**

Sulphate	< 1	1	mg/L	08-Aug-11	SM4110:B
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Microbiology

Coliforms, Total	>2419.6	1.0	MPN/100mL	05-Aug-11	SM9223:B	74
Escherichia coli	< 1.0	1.0	MPN/100mL	05-Aug-11	SM9223:B	

Trace Metals, Total

Aluminum	3.8	0.6	µg/L	17-Aug-11	EPA200.8
Arsenic	< 0.2	0.2	µg/L	17-Aug-11	EPA200.8
Barium	0.9	0.1	µg/L	17-Aug-11	EPA200.8
Cadmium	0.07	0.05	µg/L	17-Aug-11	EPA200.8
Chromium	0.2	0.1	µg/L	17-Aug-11	EPA200.8
Copper	< 0.2	0.2	µg/L	17-Aug-11	EPA200.8
Iron	< 5	5	µg/L	17-Aug-11	EPA200.8
Lead	< 0.1	0.1	µg/L	17-Aug-11	EPA200.8
Manganese	0.2	0.1	µg/L	17-Aug-11	EPA200.8
Mercury	< 0.01	0.01	µg/L	17-Aug-11	EPA200.8
Selenium	< 0.3	0.3	µg/L	17-Aug-11	EPA200.8
Uranium	< 0.1	0.1	µg/L	17-Aug-11	EPA200.8
Zinc	5.1	0.4	µg/L	17-Aug-11	EPA200.8

Trace Metals, Ultra Low

Mercury	5.29	0.2	ng/L	20-Aug-11	EPA 245.7
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Subcontracted Organics

Cyanide, Weak Acid Dissociable	< 0.002	0.002	mg/L	10-Aug-11	SM4500-CN:I
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Taiga Environmental Laboratory

Taiga Batch No.:
110478

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: TL005

Taiga Sample ID: 005

Client Project: Trout Lake Drum & Bog Sampling

Sample Type: Snow

Received Date: 05-Aug-11

Sampling Date: 05-Aug-11

Sampling Time: 11:30

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Inorganics - Physicals						
Alkalinity, Total (as CaCO ₃)	0.8	0.4	mg/L	05-Aug-11	SM2320:B	
Colour, True	< 5	5	TCU	06-Aug-11	SM2120:B	
pH	6.23		pH units	05-Aug-11	SM4500-H:B	
Solids, Total Dissolved	18	10	mg/L	12-Aug-11	SM2540:C	
Solids, Total Suspended	4	3	mg/L	12-Aug-11	SM2540:D	
Turbidity	1.30	0.05	NTU	06-Aug-11	SM2130:B	
Inorganics - Nutrients						
Organic Carbon, Dissolved	1.6	0.5	mg/L	08-Aug-11	SM5310:B	
Organic Carbon, Total	1.9	0.5	mg/L	09-Aug-11	SM5310:B	
Major Ions						
Chloride	< 0.7	0.7	mg/L	08-Aug-11	SM4110:B	
Fluoride	< 0.1	0.1	mg/L	08-Aug-11	SM4110:B	
Hardness	2.0	0.7	mg/L	08-Aug-11	SM2340:B	
Nitrate as Nitrogen	< 0.01	0.01	mg/L	08-Aug-11	SM4110:B	
Sodium	< 0.1	0.1	mg/L	08-Aug-11	SM4110:B	

Report Date: Saturday, August 20, 2011

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Taiga Environmental Laboratory

Taiga Batch No.:
110478

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **TL005**

Taiga Sample ID: **005**

Sulphate	< 1	1	mg/L	08-Aug-11	SM4110:B
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Microbiology

Coliforms, Total	144	1.0	MPN/100mL	05-Aug-11	SM9223:B
Escherichia coli	< 1.0	1.0	MPN/100mL	05-Aug-11	SM9223:B

Trace Metals, Total

Aluminum	4.3	0.6	µg/L	17-Aug-11	EPA200.8
Arsenic	< 0.2	0.2	µg/L	17-Aug-11	EPA200.8
Barium	0.4	0.1	µg/L	17-Aug-11	EPA200.8
Cadmium	< 0.05	0.05	µg/L	17-Aug-11	EPA200.8
Chromium	< 0.1	0.1	µg/L	17-Aug-11	EPA200.8
Copper	2.1	0.2	µg/L	17-Aug-11	EPA200.8
Iron	113	5	µg/L	17-Aug-11	EPA200.8
Lead	< 0.1	0.1	µg/L	17-Aug-11	EPA200.8
Manganese	0.6	0.1	µg/L	17-Aug-11	EPA200.8
Mercury	< 0.01	0.01	µg/L	17-Aug-11	EPA200.8
Selenium	< 0.3	0.3	µg/L	17-Aug-11	EPA200.8
Uranium	< 0.1	0.1	µg/L	17-Aug-11	EPA200.8
Zinc	8.2	0.4	µg/L	17-Aug-11	EPA200.8

Trace Metals, Ultra Low

Mercury	5.09	0.2	ng/L	20-Aug-11	EPA 245.7
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Subcontracted Organics

Cyanide, Weak Acid Dissociable	< 0.002	0.002	mg/L	10-Aug-11	SM4500-CN:I
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Taiga Environmental Laboratory

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

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

Taiga Batch No.:
110478

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **TL005**

Taiga Sample ID: **005**

- DATA QUALIFERS -

Data Qualifier Descriptions:

- 6** *Sample received above the recommended temperature*
- 74** *Unable to repeat analysis at higher dilution. Holding time exceeded.*

* 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



Taiga Batch No.:

110788

Taiga Environmental Laboratory

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

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

- FINAL REPORT -

Prepared For: Water Resources Division

AANDC

Address: P.O. Box 1500

Yellowknife, NT
X1A 2R3

Attn: Jeanne Arsenault

Facsimile: (867) 669-2716

Final report has been reviewed and approved by:

Hilma Harper

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.

ReportDate: Monday, October 31, 2011

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Print Date: Monday, October 31, 2011



Taiga Environmental Laboratory

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

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

Taiga Batch No.:
110788

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **1**

Taiga Sample ID: **001**

Client Project:

Sample Type: Unknown Water

Received Date: 16-Oct-11

Sampling Date: 15-Oct-11

Sampling Time: 15:46

Location: Trout Lake Sewage Lagoon

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	308	0.4	mg/L	17-Oct-11	SM2320:B	
Conductivity, Specific (@ 25°C)	812	0.4	µS/cm	17-Oct-11	SM2510:B	
pH	7.52		pH units	17-Oct-11	SM4500-H:B	
Solids, Total Suspended	204	3	mg/L	24-Oct-11	SM2540:D	
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	21.2	0.01	mg/L	18-Oct-11	SM4500-NH3:	
Biochemical Oxygen Demand	111	2	mg/L	17-Oct-11	SM5210:B	
CBOD	107	2	mg/L	17-Oct-11	SM5210:B	
Chemical Oxygen Demand	440	20	mg/L	17-Oct-11	SM5220:D	
Organic Carbon, Total	144	0.5	mg/L	20-Oct-11	SM5310:B	
Phosphorous, Total	5.75	0.01	mg/L	26-Oct-11	SM4500-P:D	
<u>Major Ions</u>						
Calcium	36.0	0.1	mg/L	17-Oct-11	SM4110:B	
Chloride	45.5	0.7	mg/L	17-Oct-11	SM4110:B	

Report Date: Monday, October 31, 2011

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Print Date: Monday, October 31, 2011



Taiga Environmental Laboratory

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

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

Taiga Batch No.:
110788

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **1**

Taiga Sample ID: **001**

Floride	< 0.1	0.1	mg/L	17-Oct-11	SM4110:B
Hardness	121	0.7	mg/L	17-Oct-11	SM2340:B
Magnesium	7.6	0.1	mg/L	17-Oct-11	SM4110:B
Nitrate as Nitrogen	0.12	0.01	mg/L	17-Oct-11	SM4110:B
Nitrite as Nitrogen	< 0.01	0.01	mg/L	17-Oct-11	SM4110:B
Potassium	19.8	0.1	mg/L	17-Oct-11	SM4110:B
Sodium	87.9	0.1	mg/L	17-Oct-11	SM4110:B
Sulphate	22	1	mg/L	17-Oct-11	SM4110:B

Microbiology

Coliforms, Fecal	290000	10000	CFU/100mL	16-Oct-11	SM9222:D
Coliforms, Total	7700000	10000	MPN/100mL	16-Oct-11	SM9223:B
Escherichia coli	276000	1000	MPN/100mL	16-Oct-11	SM9223:B

Organics

Hexane Extractable Material	28.6	2.0	mg/L	26-Oct-11	EPA1664A
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Trace Metals, Total

Aluminum	454	5	µg/L	28-Oct-11	EPA200.8
Antimony	1.2	0.1	µg/L	28-Oct-11	EPA200.8
Arsenic	2.2	0.2	µg/L	28-Oct-11	EPA200.8
Barium	26.4	0.1	µg/L	28-Oct-11	EPA200.8
Beryllium	< 0.1	0.1	µg/L	28-Oct-11	EPA200.8
Cadmium	0.1	0.1	µg/L	28-Oct-11	EPA200.8
Cesium	< 0.1	0.1	µg/L	28-Oct-11	EPA200.8
Chromium	0.5	0.1	µg/L	28-Oct-11	EPA200.8
Cobalt	1.1	0.1	µg/L	28-Oct-11	EPA200.8

Report Date: Monday, October 31, 2011

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Print Date: Monday, October 31, 2011



Taiga Environmental Laboratory

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

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

Taiga Batch No.:
110788

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **1**

Taiga Sample ID: **001**

Copper	18.5	0.2	µg/L	28-Oct-11	EPA200.8
Iron	758	5	µg/L	28-Oct-11	EPA200.8
Lead	0.7	0.1	µg/L	28-Oct-11	EPA200.8
Lithium	7.3	0.2	µg/L	28-Oct-11	EPA200.8
Manganese	346	0.1	µg/L	28-Oct-11	EPA200.8
Molybdenum	0.6	0.1	µg/L	28-Oct-11	EPA200.8
Nickel	4.8	0.1	µg/L	28-Oct-11	EPA200.8
Rubidium	18.0	0.1	µg/L	28-Oct-11	EPA200.8
Selenium	< 0.5	0.5	µg/L	28-Oct-11	EPA200.8
Silver	< 0.1	0.1	µg/L	28-Oct-11	EPA200.8
Strontium	81.3	0.1	µg/L	28-Oct-11	EPA200.8
Thallium	< 0.1	0.1	µg/L	28-Oct-11	EPA200.8
Titanium	12.8	0.1	µg/L	28-Oct-11	EPA200.8
Uranium	< 0.1	0.1	µg/L	28-Oct-11	EPA200.8
Vanadium	0.8	0.1	µg/L	28-Oct-11	EPA200.8
Zinc	35	5	µg/L	28-Oct-11	EPA200.8

Subcontracted Organics

Phenols, Total	0.002	0.001	mg/L	20-Oct-11	APHA 5530D
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Subcontracted Nutrients

Kjeldahl Nitrogen, Total	56.8	0.06	mg/L	19-Oct-11	ISO 11905-2
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Taiga Environmental Laboratory

Taiga Batch No.:
110788

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 2

Taiga Sample ID: 002

Client Project:

Sample Type: Unknown Water

Received Date: 16-Oct-11

Sampling Date: 15-Oct-11

Sampling Time: 15:46

Location: Trout Lake Sewage Lagoon

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Inorganics - Physicals						
Alkalinity, Total (as CaCO ₃)	307	0.4	mg/L	17-Oct-11	SM2320:B	
Conductivity, Specific (@ 25°C)	813	0.4	µS/cm	17-Oct-11	SM2510:B	
pH	7.55		pH units	17-Oct-11	SM4500-H:B	
Solids, Total Suspended	215	3	mg/L	24-Oct-11	SM2540:D	
Inorganics - Nutrients						
Ammonia as Nitrogen	22.6	0.01	mg/L	18-Oct-11	SM4500-NH3:	
Biochemical Oxygen Demand	107	2	mg/L	17-Oct-11	SM5210:B	
CBOD	107	2	mg/L	17-Oct-11	SM5210:B	
Chemical Oxygen Demand	440	20	mg/L	17-Oct-11	SM5220:D	
Organic Carbon, Total	142	0.5	mg/L	20-Oct-11	SM5310:B	
Phosphorous, Total	5.93	0.01	mg/L	26-Oct-11	SM4500-P:D	
Major Ions						
Calcium	36.2	0.1	mg/L	17-Oct-11	SM4110:B	
Chloride	45.9	0.7	mg/L	17-Oct-11	SM4110:B	
Floride	< 0.1	0.1	mg/L	17-Oct-11	SM4110:B	

Report Date: Monday, October 31, 2011

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Taiga Environmental Laboratory

Taiga Batch No.:
110788

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2**

Taiga Sample ID: **002**

Hardness	122	0.7	mg/L	17-Oct-11	SM2340:B
Magnesium	7.6	0.1	mg/L	17-Oct-11	SM4110:B
Nitrate as Nitrogen	0.13	0.01	mg/L	17-Oct-11	SM4110:B
Nitrite as Nitrogen	< 0.01	0.01	mg/L	17-Oct-11	SM4110:B
Potassium	20.0	0.1	mg/L	17-Oct-11	SM4110:B
Sodium	88.3	0.1	mg/L	17-Oct-11	SM4110:B
Sulphate	26	1	mg/L	17-Oct-11	SM4110:B

Microbiology

Coliforms, Fecal	240000	10000	CFU/100mL	16-Oct-11	SM9222:D
Coliforms, Total	6490000	10000	MPN/100mL	16-Oct-11	SM9223:B
Escherichia coli	461000	1000	MPN/100mL	16-Oct-11	SM9223:B

Organics

Hexane Extractable Material	No Container	mg/L	EPA1664A	16
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Trace Metals, Total

Aluminum	413	5	µg/L	28-Oct-11	EPA200.8
Antimony	1.0	0.1	µg/L	28-Oct-11	EPA200.8
Arsenic	2.1	0.2	µg/L	28-Oct-11	EPA200.8
Barium	25.9	0.1	µg/L	28-Oct-11	EPA200.8
Beryllium	< 0.1	0.1	µg/L	28-Oct-11	EPA200.8
Cadmium	< 0.1	0.1	µg/L	28-Oct-11	EPA200.8
Cesium	< 0.1	0.1	µg/L	28-Oct-11	EPA200.8
Chromium	0.4	0.1	µg/L	28-Oct-11	EPA200.8
Cobalt	1.0	0.1	µg/L	28-Oct-11	EPA200.8
Copper	17.3	0.2	µg/L	28-Oct-11	EPA200.8

Report Date: Monday, October 31, 2011

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Print Date: Monday, October 31, 2011



Taiga Environmental Laboratory

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

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

Taiga Batch No.:

110788

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2**

Taiga Sample ID: **002**

Iron	642	5	µg/L	28-Oct-11	EPA200.8
Lead	0.6	0.1	µg/L	28-Oct-11	EPA200.8
Lithium	7.1	0.2	µg/L	28-Oct-11	EPA200.8
Manganese	323	0.1	µg/L	28-Oct-11	EPA200.8
Molybdenum	0.5	0.1	µg/L	28-Oct-11	EPA200.8
Nickel	4.5	0.1	µg/L	28-Oct-11	EPA200.8
Rubidium	18.9	0.1	µg/L	28-Oct-11	EPA200.8
Selenium	< 0.5	0.5	µg/L	28-Oct-11	EPA200.8
Silver	< 0.1	0.1	µg/L	28-Oct-11	EPA200.8
Strontium	82.7	0.1	µg/L	28-Oct-11	EPA200.8
Thallium	< 0.1	0.1	µg/L	28-Oct-11	EPA200.8
Titanium	5.9	0.1	µg/L	28-Oct-11	EPA200.8
Uranium	< 0.1	0.1	µg/L	28-Oct-11	EPA200.8
Vanadium	0.7	0.1	µg/L	28-Oct-11	EPA200.8
Zinc	30	5	µg/L	28-Oct-11	EPA200.8

Subcontracted Organics

Phenols, Total	0.002	0.001	mg/L	20-Oct-11	APHA 5530D
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Subcontracted Nutrients

Kjeldahl Nitrogen, Total	57.6	0.06	mg/L	19-Oct-11	ISO 11905-2
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Taiga Environmental Laboratory

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

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

Taiga Batch No.:
110788

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **2**

Taiga Sample ID: **002**

- DATA QUALIFERS -

Data Qualifier Descriptions:

16 *Test requested but no sample bottle received*

* 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



Taiga Batch No.:
110804

Taiga Environmental Laboratory

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

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

- FINAL REPORT -

Prepared For: Water Resources Division
AANDC

Address: P.O. Box 1500
Yellowknife, NWT
X1A 2R3

Attn: Jeanne Arsenault **Facsimile: (867) 669-2716**

Final report has been reviewed and approved by:

Helene Harper
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.

ReportDate: Monday, November 07, 2011

Page 1 of 4

Print Date: Monday, November 07, 2011



Taiga Environmental Laboratory

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

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

Taiga Batch No.:
110804

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **DSA#1**

Taiga Sample ID: **001**

Client Project: MWWE Trout Lake

Sample Type: Unknown Water

Received Date: 24-Oct-11

Sampling Date: 24-Oct-11

Sampling Time: 9:50

Location: Trout Lake Decant

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	305	0.4	mg/L	26-Oct-11	SM2320:B	
Conductivity, Specific (@ 25°C)	799	0.4	µS/cm	26-Oct-11	SM2510:B	
pH	7.55		pH units	26-Oct-11	SM4500-H:B	
Solids, Total Suspended	210	3	mg/L	26-Oct-11	SM2540:D	
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	24.2	0.01	mg/L	31-Oct-11	SM4500-NH3:	
Biochemical Oxygen Demand	100	2	mg/L	25-Oct-11	SM5210:B	
CBOD	99	2	mg/L	25-Oct-11	SM5210:B	
Chemical Oxygen Demand	454	25	mg/L	27-Oct-11	SM5220:D	
Organic Carbon, Total	125	0.5	mg/L	28-Oct-11	SM5310:B	
Phosphorous, Total	5.61	0.01	mg/L	01-Nov-11	SM4500-P:D	
<u>Major Ions</u>						
Calcium	35.1	0.1	mg/L	25-Oct-11	SM4110:B	
Chloride	46.7	0.7	mg/L	25-Oct-11	SM4110:B	

Report Date: Monday, November 07, 2011

Page 2 of 4

Print Date: Monday, November 07, 2011



Taiga Environmental Laboratory

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

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

Taiga Batch No.:
110804

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **DSA#1**

Taiga Sample ID: **001**

Floride	0.1	0.1	mg/L	25-Oct-11	SM4110:B
Hardness	119	0.7	mg/L	25-Oct-11	SM2340:B
Magnesium	7.7	0.1	mg/L	25-Oct-11	SM4110:B
Nitrate as Nitrogen	0.12	0.01	mg/L	25-Oct-11	SM4110:B
Nitrite as Nitrogen	0.01	0.01	mg/L	25-Oct-11	SM4110:B
Potassium	20.2	0.1	mg/L	25-Oct-11	SM4110:B
Sodium	88.7	0.1	mg/L	25-Oct-11	SM4110:B
Sulphate	23	1	mg/L	25-Oct-11	SM4110:B

Microbiology

Coliforms, Fecal	TNTC	100	CFU/100mL	25-Oct-11	SM9222:D	86
Coliforms, Total	>242000	100	MPN/100mL	25-Oct-11	SM9223:B	
Escherichia coli	242000	100	MPN/100mL	25-Oct-11	SM9223:B	

Organics

Hexane Extractable Material	14.0	2.0	mg/L	04-Nov-11	EPA1664A
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Taiga Environmental Laboratory

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

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

Taiga Batch No.:
110804

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **DSA#1**

Taiga Sample ID: **001**

- DATA QUALIFERS -

Data Qualifier Descriptions:

86 *Too numerous to count. Unable to repeat analysis at higher dilution. Holding time exceeded.*

* 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

Sample Notes *Metals and Phenol were not perform since no container were received.*



Taiga Batch No.:
120422

Taiga Environmental Laboratory

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

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

- FINAL REPORT -

Prepared For: Sambaa K'e Dene Band

Address: P.O. Box 10

Sambaa K'e, NT

Attn: Ruby Jumbo

Facsimile:

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.



Taiga Environmental Laboratory

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

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

Taiga Batch No.:
120422

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **SK0**

Taiga Sample ID: **001**

Client Project:

Sample Type: Freshwater

Received Date: 29-Jun-12

Sampling Date: 29-Jun-12

Sampling Time: 9:00

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Physicals</u>						
pH	7.50		pH units	30-Jun-12	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	03-Jul-12	SM2540:D	
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.02	0.01	mg/L	10-Jul-12	SM4500-NH3:	
Biochemical Oxygen Demand	< 2	2	mg/L	29-Jun-12	SM5210:B	6
<u>Microbiology</u>						
Coliforms, Fecal	2	1	CFU/100mL	29-Jun-12	SM9222:D	6
Coliforms, Total	58.1	1.0	MPN/100mL	29-Jun-12	SM9223:B	6
Escherichia coli	< 1.0	1.0	MPN/100mL	29-Jun-12	SM9223:B	6
<u>Organics</u>						
Hexane Extractable Material	2.5	2.0	mg/L	04-Jul-12	EPA1664A	

Report Date: Wednesday, July 11, 2012

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Print Date: Wednesday, July 11, 2012



Taiga Environmental Laboratory

Taiga Batch No.:
120422

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **SK3**

Taiga Sample ID: **002**

Client Project:

Sample Type: Sewage

Received Date: 29-Jun-12

Sampling Date: 29-Jun-12

Sampling Time: 9:00

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Inorganics - Physicals						
pH	8.55		pH units	30-Jun-12	SM4500-H:B	
Solids, Total Suspended	415	3	mg/L	03-Jul-12	SM2540:D	
Inorganics - Nutrients						
Ammonia as Nitrogen	9.26	0.01	mg/L	10-Jul-12	SM4500-NH3:	
Biochemical Oxygen Demand	113	2	mg/L	29-Jun-12	SM5210:B	6
Microbiology						
Coliforms, Fecal	6000	100	CFU/100mL	29-Jun-12	SM9222:D	6
Coliforms, Total	479000	1000	MPN/100mL	29-Jun-12	SM9223:B	6
Escherichia coli	6300	1000	MPN/100mL	29-Jun-12	SM9223:B	6
Organics						
Hexane Extractable Material	20.1	2.0	mg/L	04-Jul-12	EPA1664A	

Report Date: Wednesday, July 11, 2012

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Print Date: Wednesday, July 11, 2012



Taiga Environmental Laboratory

Taiga Batch No.:
120422

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **SK4**

Taiga Sample ID: **003**

Client Project:

Sample Type: Freshwater

Received Date: 29-Jun-12

Sampling Date: 29-Jun-12

Sampling Time: 9:00

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Inorganics - Physicals						
pH	7.82		pH units	30-Jun-12	SM4500-H:B	
Solids, Total Suspended	4	3	mg/L	03-Jul-12	SM2540:D	
Inorganics - Nutrients						
Ammonia as Nitrogen	< 0.01	0.01	mg/L	10-Jul-12	SM4500-NH3:	
Biochemical Oxygen Demand	< 2	2	mg/L	29-Jun-12	SM5210:B	6
Microbiology						
Coliforms, Fecal	2	1	CFU/100mL	29-Jun-12	SM9222:D	6
Coliforms, Total	1200	1.0	MPN/100mL	29-Jun-12	SM9223:B	6
Escherichia coli	3.1	1.0	MPN/100mL	29-Jun-12	SM9223:B	6
Organics						
Hexane Extractable Material	< 2.0	2.0	mg/L	04-Jul-12	EPA1664A	

Report Date: Wednesday, July 11, 2012

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Print Date: Wednesday, July 11, 2012



Taiga Environmental Laboratory

Taiga Batch No.:
120422

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **SK5**

Taiga Sample ID: **004**

Client Project:

Sample Type: Freshwater

Received Date: 29-Jun-12

Sampling Date: 29-Jun-12

Sampling Time: 9:00

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Microbiology						
Coliforms, Fecal	< 1	1	CFU/100mL	29-Jun-12	SM9222:D	
Coliforms, Total	>24196.0	10.0	MPN/100mL	29-Jun-12	SM9223:B	74
Escherichia coli	< 1.0	1.0	MPN/100mL	29-Jun-12	SM9223:B	

Report Date: Wednesday, July 11, 2012

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Print Date: Wednesday, July 11, 2012



Taiga Environmental Laboratory

Taiga Batch No.:
120422

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **SK6**

Taiga Sample ID: **005**

Client Project:

Sample Type: Freshwater

Received Date: 29-Jun-12

Sampling Date: 29-Jun-12

Sampling Time: 9:00

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Inorganics - Physicals						
pH	7.61		pH units	30-Jun-12	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	03-Jul-12	SM2540:D	
Inorganics - Nutrients						
Ammonia as Nitrogen	0.01	0.01	mg/L	10-Jul-12	SM4500-NH3:	
Biochemical Oxygen Demand	< 2	2	mg/L	29-Jun-12	SM5210:B	6
Microbiology						
Coliforms, Fecal	< 1	1	CFU/100mL	29-Jun-12	SM9222:D	6
Coliforms, Total	727	1.0	MPN/100mL	29-Jun-12	SM9223:B	6
Escherichia coli	3.0	1.0	MPN/100mL	29-Jun-12	SM9223:B	6
Organics						
Hexane Extractable Material	< 2.0	2.0	mg/L	04-Jul-12	EPA1664A	

Report Date: Wednesday, July 11, 2012

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Print Date: Wednesday, July 11, 2012



Taiga Environmental Laboratory

Taiga Batch No.:
120422

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **SK46**

Taiga Sample ID: **006**

Client Project:

Sample Type: Freshwater

Received Date: 29-Jun-12

Sampling Date: 29-Jun-12

Sampling Time: 9:00

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Inorganics - Physicals						
pH	7.75		pH units	30-Jun-12	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	03-Jul-12	SM2540:D	
Inorganics - Nutrients						
Ammonia as Nitrogen	< 0.01	0.01	mg/L	10-Jul-12	SM4500-NH3:	
Biochemical Oxygen Demand	< 2	2	mg/L	29-Jun-12	SM5210:B	6
Microbiology						
Coliforms, Fecal	< 1	1	CFU/100mL	29-Jun-12	SM9222:D	6
Coliforms, Total	2720	10.0	MPN/100mL	29-Jun-12	SM9223:B	6
Escherichia coli	< 10.0	10.0	MPN/100mL	29-Jun-12	SM9223:B	68 6
Organics						
Hexane Extractable Material	< 2.0	2.0	mg/L	04-Jul-12	EPA1664A	

Report Date: Wednesday, July 11, 2012

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Print Date: Wednesday, July 11, 2012



Taiga Environmental Laboratory

Taiga Batch No.:
120422

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **SK7**

Taiga Sample ID: **007**

Client Project:

Sample Type: Freshwater

Received Date: 29-Jun-12

Sampling Date: 29-Jun-12

Sampling Time: 9:00

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Microbiology						
Coliforms, Fecal	1	1	CFU/100mL	29-Jun-12	SM9222:D	6
Coliforms, Total	770	1.0	MPN/100mL	29-Jun-12	SM9223:B	6
Escherichia coli	2.0	1.0	MPN/100mL	29-Jun-12	SM9223:B	6

Report Date: Wednesday, July 11, 2012

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Print Date: Wednesday, July 11, 2012



Taiga Environmental Laboratory

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

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

Taiga Batch No.:
120422

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **SK8**

Taiga Sample ID: **008**

Client Project:

Sample Type: Freshwater

Received Date: 29-Jun-12

Sampling Date: 29-Jun-12

Sampling Time: 9:00

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Microbiology						
Coliforms, Fecal	< 1	1	CFU/100mL	29-Jun-12	SM9222:D	6
Coliforms, Total	1120	1.0	MPN/100mL	29-Jun-12	SM9223:B	6
Escherichia coli	< 1.0	1.0	MPN/100mL	29-Jun-12	SM9223:B	6

Report Date: Wednesday, July 11, 2012

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Print Date: Wednesday, July 11, 2012



Taiga Environmental Laboratory

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

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

Taiga Batch No.:
120422

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **SK8**

Taiga Sample ID: **008**

- DATA QUALIFERS -

Data Qualifier Descriptions:

- 6** *Sample received above the recommended temperature*
- 68** *Unable to repeat analysis at lower dilution. Holding time exceeded.*
- 74** *Unable to repeat analysis at higher dilution. Holding time exceeded.*

* 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



Taiga Batch No.:
170194

Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

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

- FINAL REPORT -

Prepared For: Sambaa Ke Dene Band

Address: P.O. Box 10

Trout Lake, NT
X0E 1Z0

Attn: Ruby Jumbo

Facsimile: (867) 206-2828

Final report has been reviewed and approved by:

Glen Husky
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.

Report Date: Wednesday, April 26, 2017

Page 1 of 3

Print Date: *Wednesday, April 26, 2017*



Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

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

Taiga Batch No.:
170194

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **Trout Lake**

Taiga Sample ID: **001**

Client Project:

Sample Type: Water

Received Date: 19-Apr-17

Sampling Date: 18-Apr-17

Sampling Time: 15:35

Location: Trout Lake Sewage Lagoon

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Inorganics - Nutrients						
Ammonia as Nitrogen	79.7	0.005	mg/L	19-Apr-17	SM4500-NH3:G	
Biochemical Oxygen Demand	180	2	mg/L	19-Apr-17	SM5210:B	
Phosphorous, Total	14.9	0.002	mg/L	25-Apr-17	SM4500-P:D	
Inorganics - Physicals						
pH	7.27		pH units	19-Apr-17	SM4500-H:B	
Solids, Total Suspended	114	3	mg/L	24-Apr-17	SM2540:D	
Microbiology						
Coliforms, Fecal	740000	10000	CFU/100mL	19-Apr-17	SM9222:D	
Organics						
Hexane Extractable Material	23.0	2.0	mg/L	25-Apr-17	EPA1664A	

Report Date: Wednesday, April 26, 2017

Page 2 of 3

Print Date: *Wednesday, April 26, 2017*



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

Taiga Batch No.:
170194

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **Trout Lake**

Taiga Sample ID: **001**

* 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

Report Date: Wednesday, April 26, 2017

Page 3 of 3

Print Date: **Wednesday, April 26, 2017**

Sample Collect Date	Sample Received Date	Test Group Name	Lab Section	Parameter Name
18-Apr-17	19-Apr-17	NH3-N	Nutrients	Ammonia as Nitrogen
18-Apr-17	19-Apr-17	BOD	Nutrients	Demand
18-Apr-17	19-Apr-17	TP	Nutrients	Phosphorous, Total
18-Apr-17	19-Apr-17	TSS	Physicals	Solids, Total Suspended
18-Apr-17	19-Apr-17	pH	Physicals	pH
18-Apr-17	19-Apr-17	FC - CFU	Microbiology	Coliforms, Fecal
18-Apr-17	19-Apr-17	HEM	Organics	Material

Result Flag	Reported Result	Units	CALC_MDL	ble Result Qu	sis Result Qu	Analysis Date
	79.7	mg/L	0.005			19-Apr-17
	180	mg/L	2			19-Apr-17
	14.9	mg/L	0.002			25-Apr-17
	114	mg/L	3			24-Apr-17
	7.27	pH units				19-Apr-17
	740000	CFU/100mL	10000			19-Apr-17
	23.0	mg/L	2.0			25-Apr-17

Prep Method	Test Method	REPORT STATUS	DL
	NH3:G	Final	0.005
	SM5210:B	Final	2
	P:D	Final	0.002
	SM2540:D	Final	3
	H:B	Final	
	SM9222:D	Final	10000
	EPA1664A	Final	2



Taiga Environmental Laboratory

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

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

Taiga Batch No.:
290255

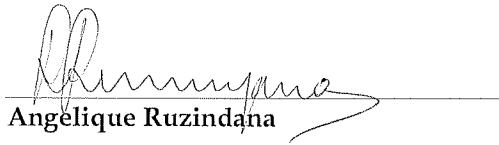
- FINAL REPORT -

Prepared For: Fort Simpson District Office
DIAND Operations

Address: Box 150
Fort Simpson, NT
XOE 0N0

Attn: Troy Searson **Facsimile:** (867) 695-2615

Final report has been reviewed and approved by:



Angélique Ruzindana
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 of Environmental Analytical Laboratories (CAEAL) as a testing laboratory for specific tests registered with CAEAL.
- 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.



Taiga Environmental Laboratory

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

Taiga Batch No.:
290255

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Treated A

Taiga Sample ID: 001

Client Project:

Sample Type: Potable

Received Date: 12-Jun-09

Sampling Date: 11-Jun-09

Sampling Time: 11:30

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Inorganics - Physicals						
Alkalinity, Total (as CaCO ₃)	48.9	0.4	mg/L	12-Jun-09	SM2320:B	
Colour, Apparent	13	2	CU	12-Jun-09	SM2120:B	
Conductivity, Specific (@ 25°C)	116	0.4	µS/cm	12-Jun-09	SM2510:B	
pH	8.66		pH units	12-Jun-09	SM4500-H:B	
Solids, Total Dissolved	62	10	mg/L	16-Jun-09	SM2540:C	
Solids, Total Suspended	< 3	3	mg/L	16-Jun-09	SM2540:D	
Turbidity	0.63	0.05	NTU	12-Jun-09	SM2130:B	
Inorganics - Nutrients						
Ammonia as Nitrogen	< 0.01	0.01	mg/L	12-Jun-09	SM4500-NH3:	
Biochemical Oxygen Demand	< 2	2	mg/L	12-Jun-09	SM5210:B	6
Major Ions						
Calcium	16.4	0.1	mg/L	13-Jun-09	SM4110:B	
Chloride	4.4	0.7	mg/L	13-Jun-09	SM4110:B	
Fluoride	< 0.1	0.1	mg/L	13-Jun-09	SM4110:B	

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

Taiga Batch No.:

290255

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Treated A

Taiga Sample ID: 001

Hardness	53.3	0.7	mg/L	13-Jun-09	SM2340:B
Magnesium	3.0	0.1	mg/L	13-Jun-09	SM4110:B
Nitrate	< 0.01	0.01	mg/L	13-Jun-09	SM4110:B
Nitrite	< 0.01	0.01	mg/L	13-Jun-09	SM4110:B
Potassium	0.4	0.1	mg/L	13-Jun-09	SM4110:B
Sodium	5.5	0.1	mg/L	13-Jun-09	SM4110:B
Sulphate	3	1	mg/L	13-Jun-09	SM4110:B

Microbiology

Coliforms, Fecal	< 1	1	CFU/100mL	12-Jun-09	SM9222:D	6
Coliforms, Total	< 1.0	1.0	MPN/100mL	12-Jun-09	SM9223:B	6
Escherichia coli	< 1.0	1.0	MPN/100mL	12-Jun-09	SM9223:B	6

Organics

Hexane Extractable Material	2.7	2.0	mg/L	22-Jun-09	EPA1664A
Oil and Grease, visible	Non-Visual			16-Jun-09	Visual Exam

Trace Metals, Dissolved

Cadmium	< 0.05	0.05	µg/L	19-Jun-09	EPA200.8
Chromium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Cobalt	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Copper	1.5	0.2	µg/L	19-Jun-09	EPA200.8
Iron	6	5	µg/L	19-Jun-09	EPA200.8
Lead	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Manganese	0.2	0.1	µg/L	19-Jun-09	EPA200.8
Nickel	0.3	0.1	µg/L	19-Jun-09	EPA200.8
Zinc	12.0	0.4	µg/L	23-Jun-09	EPA200.8

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Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: Treated A

Taiga Sample ID: 001

Trace Metals, Total

Cadmium	< 0.05	0.05	µg/L	19-Jun-09	EPA200.8
Chromium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Cobalt	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Copper	1.3	0.2	µg/L	19-Jun-09	EPA200.8
Iron	11	5	µg/L	19-Jun-09	EPA200.8
Lead	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Manganese	0.7	0.1	µg/L	19-Jun-09	EPA200.8
Nickel	0.4	0.1	µg/L	19-Jun-09	EPA200.8
Zinc	12.4	0.4	µg/L	23-Jun-09	EPA200.8

Subcontracted Organics

Bromodichloromethane	0.003	0.001	mg/L	18-Jun-09	EPA8260B
Bromoform	< 0.001	0.001	mg/L	18-Jun-09	EPA8260B
Chloroform	0.292	0.001	mg/L	18-Jun-09	EPA8260B
Dibromochloromethane	< 0.001	0.001	mg/L	18-Jun-09	EPA8260B
Trihalomethanes, Total	0.295	0.001	mg/L	18-Jun-09	EPA8260B



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Taiga Batch No.:
290255

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Treated B

Taiga Sample ID: 002

Client Project:

Sample Type: Potable

Received Date: 12-Jun-09

Sampling Date: 11-Jun-09

Sampling Time: 11:30

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Inorganics - Physicals						
Alkalinity, Total (as CaCO ₃)	49.1	0.4	mg/L	12-Jun-09	SM2320:B	
Colour, Apparent	19	2	CU	12-Jun-09	SM2120:B	
Conductivity, Specific (@ 25°C)	110	0.4	µS/cm	12-Jun-09	SM2510:B	
pH	8.65		pH units	12-Jun-09	SM4500-H:B	
Solids, Total Dissolved	56	10	mg/L	16-Jun-09	SM2540:C	
Solids, Total Suspended	< 3	3	mg/L	16-Jun-09	SM2540:D	
Turbidity	0.61	0.05	NTU	12-Jun-09	SM2130:B	
Inorganics - Nutrients						
Ammonia as Nitrogen	< 0.01	0.01	mg/L	12-Jun-09	SM4500-NH3:	
Major Ions						
Calcium	16.3	0.1	mg/L	13-Jun-09	SM4110:B	
Chloride	4.2	0.7	mg/L	13-Jun-09	SM4110:B	
Fluoride	< 0.1	0.1	mg/L	13-Jun-09	SM4110:B	
Hardness	52.9	0.7	mg/L	13-Jun-09	SM2340:B	
Magnesium	3.0	0.1	mg/L	13-Jun-09	SM4110:B	

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Taiga Environmental Laboratory

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

Taiga Batch No.:

290255

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Treated B

Taiga Sample ID: 002

Nitrate	< 0.01	0.01	mg/L	13-Jun-09	SM4110:B
Nitrite	< 0.01	0.01	mg/L	13-Jun-09	SM4110:B
Potassium	0.4	0.1	mg/L	13-Jun-09	SM4110:B
Sodium	5.1	0.1	mg/L	13-Jun-09	SM4110:B
Sulphate	3	1	mg/L	13-Jun-09	SM4110:B

Organics

Oil and Grease, visible	Non-Visual	16-Jun-09	Visual Exam
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Trace Metals, Dissolved

Cadmium	< 0.05	0.05	µg/L	19-Jun-09	EPA200.8
Chromium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Cobalt	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Copper	1.2	0.2	µg/L	19-Jun-09	EPA200.8
Iron	6	5	µg/L	19-Jun-09	EPA200.8
Lead	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Manganese	0.2	0.1	µg/L	19-Jun-09	EPA200.8
Nickel	0.3	0.1	µg/L	19-Jun-09	EPA200.8
Zinc	12.0	0.4	µg/L	23-Jun-09	EPA200.8

Trace Metals, Total

Cadmium	< 0.05	0.05	µg/L	19-Jun-09	EPA200.8
Chromium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Cobalt	0.4	0.1	µg/L	19-Jun-09	EPA200.8
Copper	1.8	0.2	µg/L	19-Jun-09	EPA200.8
Iron	15	5	µg/L	19-Jun-09	EPA200.8
Lead	0.1	0.1	µg/L	19-Jun-09	EPA200.8

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Taiga Batch No.:
290255

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Treated B

Taiga Sample ID: 002

Manganese	0.8	0.1	µg/L	19-Jun-09	EPA200.8
Nickel	0.4	0.1	µg/L	19-Jun-09	EPA200.8
Zinc	15.9	0.4	µg/L	19-Jun-09	EPA200.8

Subcontracted Organics

Bromodichloromethane	0.002	0.001	mg/L	18-Jun-09	EPA8260B
Bromoform	< 0.001	0.001	mg/L	18-Jun-09	EPA8260B
Chloroform	0.278	0.001	mg/L	18-Jun-09	EPA8260B
Dibromochloromethane	< 0.001	0.001	mg/L	18-Jun-09	EPA8260B
Trihalomethanes, Total	0.280	0.001	mg/L	18-Jun-09	EPA8260B



Taiga Environmental Laboratory

Taiga Batch No.:
290255

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Raw A

Taiga Sample ID: 003

Client Project:

Sample Type: Freshwater

Received Date: 12-Jun-09

Sampling Date: 11-Jun-09

Sampling Time: 11:30

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Inorganics - Physicals						
Alkalinity, Total (as CaCO ₃)	47.8	0.4	mg/L	12-Jun-09	SM2320:B	
Colour, Apparent	20	2	CU	12-Jun-09	SM2120:B	
Conductivity, Specific (@ 25°C)	97.5	0.4	µS/cm	12-Jun-09	SM2510:B	
pH	8.45		pH units	12-Jun-09	SM4500-H:B	
Solids, Total Dissolved	56	10	mg/L	16-Jun-09	SM2540:C	
Solids, Total Suspended	< 3	3	mg/L	16-Jun-09	SM2540:D	
Turbidity	0.61	0.05	NTU	12-Jun-09	SM2130:B	
Inorganics - Nutrients						
Ammonia as Nitrogen	< 0.01	0.01	mg/L	12-Jun-09	SM4500-NH3:	
Biochemical Oxygen Demand	< 2	2	mg/L	12-Jun-09	SM5210:B	6
Major Ions						
Calcium	16.4	0.1	mg/L	13-Jun-09	SM4110:B	
Chloride	< 0.7	0.7	mg/L	13-Jun-09	SM4110:B	
Fluoride	< 0.1	0.1	mg/L	13-Jun-09	SM4110:B	
Hardness	53.1	0.7	mg/L	13-Jun-09	SM2340:B	

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Taiga Environmental Laboratory

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

Taiga Batch No.:

290255

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Raw A

Taiga Sample ID: 003

Magnesium	3.0	0.1	mg/L	13-Jun-09	SM4110:B
Nitrate	< 0.01	0.01	mg/L	13-Jun-09	SM4110:B
Nitrite	< 0.01	0.01	mg/L	13-Jun-09	SM4110:B
Potassium	0.4	0.1	mg/L	13-Jun-09	SM4110:B
Sodium	1.6	0.1	mg/L	13-Jun-09	SM4110:B
Sulphate	3	1	mg/L	13-Jun-09	SM4110:B

Microbiology

Coliforms, Fecal	< 1	1	CFU/100mL	12-Jun-09	SM9222:D	6
Coliforms, Total	45.7	1.0	MPN/100mL	12-Jun-09	SM9223:B	6
Escherichia coli	< 1.0	1.0	MPN/100mL	12-Jun-09	SM9223:B	6

Organics

Hexane Extractable Material	3.6	2.0	mg/L	22-Jun-09	EPA1664A
Oil and Grease, visible		Non-Visual		16-Jun-09	Visual Exam

Trace Metals, Dissolved

Cadmium	< 0.05	0.05	µg/L	19-Jun-09	EPA200.8
Chromium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Cobalt	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Copper	2.8	0.2	µg/L	19-Jun-09	EPA200.8
Iron	5	5	µg/L	19-Jun-09	EPA200.8
Lead	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Manganese	0.1	0.1	µg/L	19-Jun-09	EPA200.8
Nickel	0.6	0.1	µg/L	19-Jun-09	EPA200.8
Zinc	13.5	0.4	µg/L	19-Jun-09	EPA200.8

Trace Metals, Total

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

Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: Raw A

Taiga Sample ID: 003

Cadmium	< 0.05	0.05	µg/L	19-Jun-09	EPA200.8
Chromium	0.1	0.1	µg/L	19-Jun-09	EPA200.8
Cobalt	0.7	0.1	µg/L	19-Jun-09	EPA200.8
Copper	13.3	0.2	µg/L	19-Jun-09	EPA200.8
Iron	43	5	µg/L	19-Jun-09	EPA200.8
Lead	0.9	0.1	µg/L	19-Jun-09	EPA200.8
Manganese	1.1	0.1	µg/L	19-Jun-09	EPA200.8
Nickel	0.5	0.1	µg/L	19-Jun-09	EPA200.8
Zinc	25.1	0.4	µg/L	19-Jun-09	EPA200.8



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

Taiga Batch No.:

290255

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Raw B

Taiga Sample ID: 004

Client Project:

Sample Type: Freshwater

Received Date: 12-Jun-09

Sampling Date: 11-Jun-09

Sampling Time: 11:30

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	47.9	0.4	mg/L	12-Jun-09	SM2320:B	
Colour, Apparent	18	2	CU	12-Jun-09	SM2120:B	
Conductivity, Specific (@ 25°C)	99.4	0.4	µS/cm	12-Jun-09	SM2510:B	
pH	8.44		pH units	12-Jun-09	SM4500-H:B	
Solids, Total Dissolved	56	10	mg/L	16-Jun-09	SM2540:C	
Solids, Total Suspended	< 3	3	mg/L	16-Jun-09	SM2540:D	
Turbidity	0.66	0.05	NTU	12-Jun-09	SM2130:B	
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	< 0.01	0.01	mg/L	12-Jun-09	SM4500-NH3:	
<u>Major Ions</u>						
Calcium	16.6	0.1	mg/L	13-Jun-09	SM4110:B	
Chloride	< 0.7	0.7	mg/L	13-Jun-09	SM4110:B	
Fluoride	< 0.1	0.1	mg/L	13-Jun-09	SM4110:B	
Hardness	53.8	0.7	mg/L	13-Jun-09	SM2340:B	
Magnesium	3.0	0.1	mg/L	13-Jun-09	SM4110:B	

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Taiga Batch No.:
290255

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Raw B

Taiga Sample ID: 004

Nitrate	< 0.01	0.01	mg/L	13-Jun-09	SM4110:B
Nitrite	< 0.01	0.01	mg/L	13-Jun-09	SM4110:B
Potassium	0.4	0.1	mg/L	13-Jun-09	SM4110:B
Sodium	1.7	0.1	mg/L	13-Jun-09	SM4110:B
Sulphate	3	1	mg/L	13-Jun-09	SM4110:B

Organics

Oil and Grease, visible	Non-Visual	16-Jun-09	Visual Exam
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Trace Metals, Dissolved

Cadmium	< 0.05	0.05	µg/L	19-Jun-09	EPA200.8
Chromium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Cobalt	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Copper	2.5	0.2	µg/L	19-Jun-09	EPA200.8
Iron	7	5	µg/L	19-Jun-09	EPA200.8
Lead	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Manganese	0.1	0.1	µg/L	19-Jun-09	EPA200.8
Nickel	0.5	0.1	µg/L	19-Jun-09	EPA200.8
Zinc	5.9	0.4	µg/L	19-Jun-09	EPA200.8

Trace Metals, Total

Cadmium	< 0.05	0.05	µg/L	19-Jun-09	EPA200.8
Chromium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Cobalt	0.3	0.1	µg/L	19-Jun-09	EPA200.8
Copper	50.0	0.2	µg/L	19-Jun-09	EPA200.8
Iron	27	5	µg/L	19-Jun-09	EPA200.8
Lead	1.3	0.1	µg/L	19-Jun-09	EPA200.8

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Taiga Environmental Laboratory
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Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: Raw B

Taiga Sample ID: 004

Manganese	0.8	0.1	µg/L	19-Jun-09	EPA200.8
Nickel	0.5	0.1	µg/L	19-Jun-09	EPA200.8
Zinc	29.9	0.4	µg/L	19-Jun-09	EPA200.8



Taiga Environmental Laboratory

Taiga Batch No.:
290255

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

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

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Sewage A

Taiga Sample ID: 005

Client Project:

Sample Type: Sewage

Received Date: 12-Jun-09

Sampling Date: 11-Jun-09

Sampling Time: 11:30

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Inorganics - Physicals						
Alkalinity, Total (as CaCO ₃)	375	0.4	mg/L	12-Jun-09	SM2320:B	
Colour, Apparent	1510	2	CU	12-Jun-09	SM2120:B	
Conductivity, Specific (@ 25°C)	930	0.4	µS/cm	12-Jun-09	SM2510:B	
pH	7.81		pH units	12-Jun-09	SM4500-H:B	
Solids, Total Dissolved	370	10	mg/L	16-Jun-09	SM2540:C	
Solids, Total Suspended	165	3	mg/L	16-Jun-09	SM2540:D	
Turbidity	88.7	0.05	NTU	12-Jun-09	SM2130:B	
Inorganics - Nutrients						
Ammonia as Nitrogen	65.1	0.01	mg/L	12-Jun-09	SM4500-NH3:	
Biochemical Oxygen Demand	168	2	mg/L	12-Jun-09	SM5210:B	6
Major Ions						
Calcium	30.5	0.1	mg/L	13-Jun-09	SM4110:B	
Chloride	45.5	0.7	mg/L	13-Jun-09	SM4110:B	
Fluoride	0.3	0.1	mg/L	13-Jun-09	SM4110:B	
Hardness	104	0.7	mg/L	13-Jun-09	SM2340:B	

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Taiga Environmental Laboratory
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3
Tel: (867)-669-2788 Fax: (867)-669-2718

Taiga Batch No.:
290255

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Sewage A

Taiga Sample ID: 005

Magnesium	6.7	0.1	mg/L	13-Jun-09	SM4110:B
Nitrate	< 0.01	0.01	mg/L	13-Jun-09	SM4110:B
Nitrite	< 0.01	0.01	mg/L	13-Jun-09	SM4110:B
Potassium	16.7	0.1	mg/L	13-Jun-09	SM4110:B
Sodium	66.3	0.1	mg/L	13-Jun-09	SM4110:B
Sulphate	17	1	mg/L	13-Jun-09	SM4110:B

Microbiology

Coliforms, Fecal	44000	1000	CFU/100mL	12-Jun-09	SM9222:D	6
Coliforms, Total	3870000	10000	MPN/100mL	12-Jun-09	SM9223:B	6
Escherichia coli	98000	100	MPN/100mL	12-Jun-09	SM9223:B	6

Organics

Hexane Extractable Material	7.5	2.0	mg/L	22-Jun-09	EPA1664A
Oil and Grease, visible	Non-Visual			16-Jun-09	Visual Exam

Trace Metals, Dissolved

Aluminum	63.7	0.6	µg/L	19-Jun-09	EPA200.8
Antimony	0.8	0.1	µg/L	19-Jun-09	EPA200.8
Arsenic	1.5	0.2	µg/L	19-Jun-09	EPA200.8
Barium	10.0	0.1	µg/L	19-Jun-09	EPA200.8
Beryllium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Cadmium	< 0.05	0.05	µg/L	19-Jun-09	EPA200.8
Cesium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Chromium	0.5	0.1	µg/L	19-Jun-09	EPA200.8
Cobalt	0.8	0.1	µg/L	19-Jun-09	EPA200.8
Copper	3.9	0.2	µg/L	19-Jun-09	EPA200.8

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Taiga Environmental Laboratory

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

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

Taiga Batch No.:
290255

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Sewage A

Taiga Sample ID: 005

Iron	253	5	µg/L	19-Jun-09	EPA200.8
Lead	0.2	0.1	µg/L	19-Jun-09	EPA200.8
Lithium	4.6	0.2	µg/L	19-Jun-09	EPA200.8
Manganese	119	0.1	µg/L	19-Jun-09	EPA200.8
Molybdenum	0.3	0.1	µg/L	19-Jun-09	EPA200.8
Nickel	4.5	0.1	µg/L	19-Jun-09	EPA200.8
Rubidium	20.2	0.1	µg/L	19-Jun-09	EPA200.8
Selenium	0.3	0.3	µg/L	19-Jun-09	EPA200.8
Silver	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Strontium	46.6	0.1	µg/L	19-Jun-09	EPA200.8
Thallium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Titanium	6.2	0.1	µg/L	19-Jun-09	EPA200.8
Uranium	0.1	0.1	µg/L	19-Jun-09	EPA200.8
Vanadium	0.5	0.1	µg/L	19-Jun-09	EPA200.8
Zinc	59.8	0.4	µg/L	19-Jun-09	EPA200.8

Trace Metals, Total

Aluminum	471	5	µg/L	19-Jun-09	EPA200.8
Antimony	1.7	0.1	µg/L	19-Jun-09	EPA200.8
Arsenic	1.9	0.2	µg/L	19-Jun-09	EPA200.8
Barium	23.7	0.1	µg/L	19-Jun-09	EPA200.8
Beryllium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Cadmium	0.2	0.1	µg/L	19-Jun-09	EPA200.8
Cesium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Chromium	1.2	0.1	µg/L	19-Jun-09	EPA200.8

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Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: Sewage A

Taiga Sample ID: 005

Cobalt	1.5	0.1	µg/L	19-Jun-09	EPA200.8
Copper	50.6	0.2	µg/L	19-Jun-09	EPA200.8
Iron	776	5	µg/L	19-Jun-09	EPA200.8
Lead	1.3	0.1	µg/L	19-Jun-09	EPA200.8
Lithium	5.0	0.2	µg/L	19-Jun-09	EPA200.8
Manganese	160	0.1	µg/L	19-Jun-09	EPA200.8
Molybdenum	0.8	0.1	µg/L	19-Jun-09	EPA200.8
Nickel	5.4	0.1	µg/L	19-Jun-09	EPA200.8
Rubidium	21.9	0.1	µg/L	19-Jun-09	EPA200.8
Selenium	0.8	0.5	µg/L	19-Jun-09	EPA200.8
Silver	0.2	0.1	µg/L	19-Jun-09	EPA200.8
Strontium	52.3	0.1	µg/L	19-Jun-09	EPA200.8
Thallium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Titanium	16.9	0.1	µg/L	19-Jun-09	EPA200.8
Uranium	0.2	0.1	µg/L	19-Jun-09	EPA200.8
Vanadium	1.0	0.1	µg/L	19-Jun-09	EPA200.8
Zinc	65	5	µg/L	19-Jun-09	EPA200.8



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Taiga Batch No.:
290255

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Sewage B

Taiga Sample ID: 006

Client Project:

Sample Type: Sewage

Received Date: 12-Jun-09

Sampling Date: 11-Jun-09

Sampling Time: 11:30

Location: Trout Lake

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Physicals</u>						
Alkalinity, Total (as CaCO ₃)	375	0.4	mg/L	12-Jun-09	SM2320:B	
Colour, Apparent	1510	2	CU	12-Jun-09	SM2120:B	
Conductivity, Specific (@ 25°C)	940	0.4	µS/cm	12-Jun-09	SM2510:B	
pH	7.82		pH units	12-Jun-09	SM4500-H:B	
Solids, Total Dissolved	373	10	mg/L	16-Jun-09	SM2540:C	
Solids, Total Suspended	180	3	mg/L	16-Jun-09	SM2540:D	
Turbidity	88.2	0.05	NTU	12-Jun-09	SM2130:B	
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	64.4	0.01	mg/L	12-Jun-09	SM4500-NH3:	
<u>Major Ions</u>						
Calcium	33.9	0.1	mg/L	13-Jun-09	SM4110:B	
Chloride	46.7	0.7	mg/L	13-Jun-09	SM4110:B	
Fluoride	0.3	0.1	mg/L	13-Jun-09	SM4110:B	
Hardness	116	0.7	mg/L	13-Jun-09	SM2340:B	
Magnesium	7.6	0.1	mg/L	13-Jun-09	SM4110:B	

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Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: Sewage B

Taiga Sample ID: 006

Nitrate	< 0.01	0.01	mg/L	13-Jun-09	SM4110:B
Nitrite	< 0.01	0.01	mg/L	13-Jun-09	SM4110:B
Potassium	17.0	0.1	mg/L	13-Jun-09	SM4110:B
Sodium	67.3	0.1	mg/L	13-Jun-09	SM4110:B
Sulphate	16	1	mg/L	13-Jun-09	SM4110:B

Microbiology

Coliforms, Fecal	123000	1000	CFU/100mL	12-Jun-09	SM9222:D	6
Coliforms, Total	6490000	10000	MPN/100mL	12-Jun-09	SM9223:B	6
Escherichia coli	105000	100	MPN/100mL	12-Jun-09	SM9223:B	6

Organics

Oil and Grease, visible	Non-Visual			16-Jun-09	Visual Exam
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Trace Metals, Dissolved

Aluminum	65.6	0.6	µg/L	19-Jun-09	EPA200.8
Antimony	0.9	0.1	µg/L	19-Jun-09	EPA200.8
Arsenic	1.6	0.2	µg/L	19-Jun-09	EPA200.8
Barium	10.2	0.1	µg/L	19-Jun-09	EPA200.8
Beryllium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Cadmium	< 0.05	0.05	µg/L	19-Jun-09	EPA200.8
Cesium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Chromium	0.5	0.1	µg/L	19-Jun-09	EPA200.8
Cobalt	0.8	0.1	µg/L	19-Jun-09	EPA200.8
Copper	4.0	0.2	µg/L	19-Jun-09	EPA200.8
Iron	255	5	µg/L	19-Jun-09	EPA200.8
Lead	0.2	0.1	µg/L	19-Jun-09	EPA200.8

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Taiga Batch No.:

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: Sewage B

Taiga Sample ID: 006

Lithium	4.6	0.2	µg/L	19-Jun-09	EPA200.8
Manganese	120	0.1	µg/L	19-Jun-09	EPA200.8
Molybdenum	0.4	0.1	µg/L	19-Jun-09	EPA200.8
Nickel	4.4	0.1	µg/L	19-Jun-09	EPA200.8
Rubidium	20.1	0.1	µg/L	19-Jun-09	EPA200.8
Selenium	0.3	0.3	µg/L	19-Jun-09	EPA200.8
Silver	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Strontium	46.2	0.1	µg/L	19-Jun-09	EPA200.8
Thallium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Titanium	6.6	0.1	µg/L	19-Jun-09	EPA200.8
Uranium	0.1	0.1	µg/L	19-Jun-09	EPA200.8
Vanadium	0.5	0.1	µg/L	19-Jun-09	EPA200.8
Zinc	59.3	0.4	µg/L	19-Jun-09	EPA200.8

Trace Metals, Total

Aluminum	324	5	µg/L	19-Jun-09	EPA200.8
Antimony	1.6	0.1	µg/L	19-Jun-09	EPA200.8
Arsenic	1.8	0.2	µg/L	19-Jun-09	EPA200.8
Barium	18.8	0.1	µg/L	19-Jun-09	EPA200.8
Beryllium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Cadmium	0.1	0.1	µg/L	19-Jun-09	EPA200.8
Cesium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Chromium	1.1	0.1	µg/L	19-Jun-09	EPA200.8
Cobalt	1.3	0.1	µg/L	19-Jun-09	EPA200.8
Copper	44.4	0.2	µg/L	19-Jun-09	EPA200.8

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Client Sample ID: Sewage B

Taiga Sample ID: 006

Iron	617	5	µg/L	19-Jun-09	EPA200.8
Lead	1.0	0.1	µg/L	19-Jun-09	EPA200.8
Lithium	4.7	0.2	µg/L	19-Jun-09	EPA200.8
Manganese	140	0.1	µg/L	19-Jun-09	EPA200.8
Molybdenum	0.6	0.1	µg/L	19-Jun-09	EPA200.8
Nickel	5.0	0.1	µg/L	19-Jun-09	EPA200.8
Rubidium	20.1	0.1	µg/L	19-Jun-09	EPA200.8
Selenium	0.7	0.5	µg/L	19-Jun-09	EPA200.8
Silver	0.1	0.1	µg/L	19-Jun-09	EPA200.8
Strontium	48.8	0.1	µg/L	19-Jun-09	EPA200.8
Thallium	< 0.1	0.1	µg/L	19-Jun-09	EPA200.8
Titanium	13.5	0.1	µg/L	19-Jun-09	EPA200.8
Uranium	0.1	0.1	µg/L	19-Jun-09	EPA200.8
Vanadium	0.9	0.1	µg/L	19-Jun-09	EPA200.8
Zinc	54	5	µg/L	19-Jun-09	EPA200.8



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- CERTIFICATE OF ANALYSIS -

Client Sample ID: Sewage B

Taiga Sample ID: 006

- DATA QUALIFERS -

Data Qualifier Descriptions:

6 *Sample received above the recommended temperature*

- * 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