

## Report Transmission Cover Page

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

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Contact & Affiliation	Address	Delivery Commitments
Bonnie Burns	1-405 Ogilvie Street, Box 21072	On [Lot Verification] send
Laberge Environmental Services	Whitehorse, Yukon Territory Y1A 6P7	(COA) by Email - Single Report
	Phone: (867) 668-6838	On [Report Approval] send
	Fax: (867) 667-6956	(COC, Test Report) by Email - Multiple Reports
	Email: bonnieburns@northwestel.net	On [Report Approval] send
		(COC, Test Report) by Email - Multiple Reports
		On [Lot Approval and Final Test Report Approval] send
		(Invoice) by Email - Single Report
		On [Lot Creation] send
		(COR) by Email - Single Report

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### Notes To Clients:

- Report was re-issued to correct the titanium result on all samples previously reported on Test Report 1772978. Report 1795065 replaces report 1772978.
- Upon receipt, samples had exceeded recommended holding time for nitrate and nitrite analysis.

**Sample Custody**

Bill To: Laberge Environmental Services Project: \_\_\_\_\_  
Report To: Laberge Environmental Services ID: \_\_\_\_\_  
Box 21072 Name: Clinton Creek  
1-405 Ogilvie Street Location: Clinton Creek  
Whitehorse, YT, Canada LSD:  
Y1A 6P7 P.O.:  
Attn: Bonnie Burns Acct code:  
Sampled By:  
Company:

Lot ID: **898270**  
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Date Received: Oct 9, 2012  
Date Reported: Dec 28, 2012  
Report Number: 1795065

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**Sample Disposal Date: November 14, 2012**

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the top of this page.

Extend Sample Storage Until \_\_\_\_\_ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for an additional 30 days	\$ 2.50 per sample
Storage for an additional 60 days	\$ 5.00 per sample
Storage for an additional 90 days	\$ 7.50 per sample

Return Sample, collect, to the address below via:

Greyhound

DHL

Purolator

Other (specify) \_\_\_\_\_

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Signature \_\_\_\_\_

## Analytical Report

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
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1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

		Reference Number	898270-1	898270-2	898270-3	
		Sample Date	Oct 03, 2012	Oct 03, 2012	Oct 02, 2012	
		Sample Time	15:00	14:00	17:00	
		Sample Location				
		Sample Description	R-1	R-2	R-4	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
<b>Inorganic Nonmetallic Parameters</b>						
Organic Carbon	Total Nonpurgeable	mg/L	14.9	11.2	15.1	0.5
Orthophosphate-P	Dissolved	mg/L	<0.002	0.004	<0.002	0.002
Phosphorus	Total	mg/L	0.032	0.008	0.075	0.003
Ammonia - N		mg/L	0.02	<0.01	<0.01	.01
<b>Metals Dissolved</b>						
Sulfur	Dissolved	mg/L	64.3	49.4	65.3	0.2
Aluminum	Dissolved	mg/L	0.020	0.024	0.034	0.005
Antimony	Dissolved	mg/L	0.0004	0.0006	0.0005	0.0002
Arsenic	Dissolved	mg/L	0.0009	0.0009	0.0018	0.0002
Barium	Dissolved	mg/L	0.054	0.044	0.063	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.008	0.012	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00008	0.00003	0.00004	0.00001
Chromium	Dissolved	mg/L	0.0014	0.0015	0.0015	0.0004
Cobalt	Dissolved	mg/L	0.00104	0.00027	0.00091	0.00002
Copper	Dissolved	mg/L	0.002	0.001	0.002	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.004	0.007	0.006	0.001
Molybdenum	Dissolved	mg/L	0.00157	0.00076	0.00099	0.0001
Nickel	Dissolved	mg/L	0.008	0.004	0.012	0.001
Selenium	Dissolved	mg/L	0.0010	<0.0006	0.0019	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.377	0.330	0.466	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0020	0.0035	0.0062	0.0004
Vanadium	Dissolved	mg/L	0.00050	0.00053	0.00045	0.0001
Zinc	Dissolved	mg/L	0.003	0.002	0.003	0.001
Zirconium	Dissolved	mg/L	0.00094	0.00057	0.00228	0.0001
<b>Metals Total</b>						
Aluminum	Total	mg/L	0.226	0.125	0.324	0.005
Antimony	Total	mg/L	0.0004	0.0006	0.0004	0.0001

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1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

		Reference Number	898270-1	898270-2	898270-3	
		Sample Date	Oct 03, 2012	Oct 03, 2012	Oct 02, 2012	
		Sample Time	15:00	14:00	17:00	
		Sample Location				
		Sample Description	R-1	R-2	R-4	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
<b>Metals Total - Continued</b>						
Arsenic	Total	mg/L	0.00117	0.00108	0.00246	0.00005
Barium	Total	mg/L	0.0638	0.0655	0.132	0.00005
Beryllium	Total	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Bismuth	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Boron	Total	mg/L	0.010	0.013	0.004	.002
Cadmium	Total	mg/L	0.00011	0.00005	0.00020	0.00001
Calcium	Total	mg/L	77.3	61.3	85.5	0.05
Chromium	Total	mg/L	0.0008	0.0010	0.0015	0.0005
Cobalt	Total	mg/L	0.0011	0.0003	0.0013	0.0001
Copper	Total	mg/L	0.0032	0.0021	0.0046	0.0001
Iron	Total	mg/L	1.29	0.511	0.890	0.002
Lead	Total	mg/L	0.0004	0.0002	0.0016	0.0001
Lithium	Total	mg/L	0.0030	0.0054	0.0052	0.0005
Magnesium	Total	mg/L	37.3	43.5	43.0	0.04
Manganese	Total	mg/L	0.563	0.163	0.350	0.001
Molybdenum	Total	mg/L	0.00173	0.00089	0.00102	0.00005
Nickel	Total	mg/L	0.0067	0.0039	0.0143	0.0002
Potassium	Total	mg/L	0.6	0.7	0.6	0.1
Selenium	Total	mg/L	0.0014	0.0007	0.0033	0.0001
Silicon	Total	mg/L	5.03	6.14	5.83	0.02
Silver	Total	mg/L	0.00001	<0.00001	0.00001	0.0005
Sodium	Total	mg/L	3.4	3.6	4.8	0.1
Strontium	Total	mg/L	0.368	0.334	0.470	0.0001
Thallium	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	0.00009	0.00004	0.00006	0.00001
Tin	Total	mg/L	0.0002	0.0002	0.0001	0.0001
Titanium	Total	mg/L	0.0119	0.0075	0.0184	0.0005
Uranium	Total	mg/L	0.00198	0.00345	0.00578	0.00001
Vanadium	Total	mg/L	0.0011	0.0007	0.0015	0.0001
Zinc	Total	mg/L	0.0054	0.0079	0.0217	0.0005
Zirconium	Total	mg/L	0.0009	0.0007	0.0028	0.0005
Hardness	as CaCO3	mg/L	346	332	391	1
<b>Physical and Aggregate Properties</b>						
Solids	Total Suspended	mg/L	22	<2	86	2
<b>Routine Water</b>						
pH	at 25 °C		7.50	7.76	7.83	

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1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

Reference Number	898270-1	898270-2	898270-3
Sample Date	Oct 03, 2012	Oct 03, 2012	Oct 02, 2012
Sample Time	15:00	14:00	17:00
Sample Location			
Sample Description	R-1	R-2	R-4
Matrix	Water	Water	Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
<b>Routine Water - Continued</b>					
Electrical Conductivity	µS/cm at 25 C	613	548	632	1
Calcium	Dissolved mg/L	81.9	61.8	83.9	0.1
Iron	Dissolved mg/L	0.621	0.240	0.181	0.005
Magnesium	Dissolved mg/L	39.2	43.7	43.9	0.1
Manganese	Dissolved mg/L	0.536	0.139	0.281	0.001
Potassium	Dissolved mg/L	0.6	0.7	0.5	0.1
Silicon	Dissolved mg/L	4.50	5.48	5.03	0.05
Sodium	Dissolved mg/L	3.4	3.4	4.7	0.1
Bicarbonate	mg/L	170	190	196	5
Carbonate	mg/L	<6	<6	<6	6
Hydroxide	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3 mg/L	140	156	161	5
Nitrate - N	Dissolved mg/L	0.25	0.06	0.23	0.01
Nitrite - N	Dissolved mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved mg/L	172	134	176	0.5
Hardness	as CaCO3 mg/L	366	334	390	5

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1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

		Reference Number	898270-4	898270-5	898270-6	
		Sample Date	Oct 03, 2012	Oct 02, 2012	Oct 02, 2012	
		Sample Time	10:00	16:00	17:00	
		Sample Location				
		Sample Description	R-6	E-1	GWCC-5	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
<b>Inorganic Nonmetallic Parameters</b>						
Organic Carbon	Total Nonpurgeable	mg/L	9.4	16.0	7.2	0.5
Orthophosphate-P	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L	0.006	0.008	0.004	0.003
Ammonia - N		mg/L	<0.01	0.01	<0.01	.01
<b>Metals Dissolved</b>						
Sulfur	Dissolved	mg/L	20.1	54.2	131	0.2
Aluminum	Dissolved	mg/L	0.062	0.019	<0.005	0.005
Antimony	Dissolved	mg/L	<0.0002	0.0003	0.0006	0.0002
Arsenic	Dissolved	mg/L	0.0004	0.0008	0.0010	0.0002
Barium	Dissolved	mg/L	0.046	0.060	0.043	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	<0.004	0.01	0.046	0.004
Cadmium	Dissolved	mg/L	0.00001	0.00004	0.00005	0.00001
Chromium	Dissolved	mg/L	0.0007	0.0014	0.0026	0.0004
Cobalt	Dissolved	mg/L	0.00062	0.00057	0.00020	0.00002
Copper	Dissolved	mg/L	0.002	0.002	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.005	0.005	0.020	0.001
Molybdenum	Dissolved	mg/L	0.00046	0.00152	0.00151	0.0001
Nickel	Dissolved	mg/L	0.004	0.006	0.047	0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006	0.0061	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.187	0.351	1.080	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	0.00003	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0013	0.0025	0.0037	0.0004
Vanadium	Dissolved	mg/L	0.00039	0.00051	0.00052	0.0001
Zinc	Dissolved	mg/L	0.008	0.003	0.002	0.001
Zirconium	Dissolved	mg/L	0.00053	0.00083	0.00025	0.0001
<b>Metals Total</b>						
Aluminum	Total	mg/L	0.146	0.045	0.002	0.005
Antimony	Total	mg/L	0.0001	0.0004	0.0006	0.0001

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1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

		Reference Number	898270-4	898270-5	898270-6	
		Sample Date	Oct 03, 2012	Oct 02, 2012	Oct 02, 2012	
		Sample Time	10:00	16:00	17:00	
		Sample Location				
		Sample Description	R-6	E-1	GWCC-5	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
<b>Metals Total - Continued</b>						
Arsenic	Total	mg/L	0.00044	0.00088	0.00082	0.00005
Barium	Total	mg/L	0.0451	0.119	0.0457	0.00005
Beryllium	Total	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Bismuth	Total	mg/L	0.0001	<0.0001	0.0001	0.0001
Boron	Total	mg/L	0.004	0.011	0.040	.002
Cadmium	Total	mg/L	0.00004	0.00011	0.00007	0.00001
Calcium	Total	mg/L	34.3	74.5	149	0.05
Chromium	Total	mg/L	<0.0005	0.0006	0.0007	0.0005
Cobalt	Total	mg/L	0.0006	0.0005	<0.0001	0.0001
Copper	Total	mg/L	0.0024	0.0027	0.0006	0.0001
Iron	Total	mg/L	0.418	0.298	0.008	0.002
Lead	Total	mg/L	<0.0001	0.0016	<0.0001	0.0001
Lithium	Total	mg/L	0.0043	0.0043	0.0159	0.0005
Magnesium	Total	mg/L	12.1	37.9	73.6	0.04
Manganese	Total	mg/L	0.0459	0.297	0.0023	0.001
Molybdenum	Total	mg/L	0.00053	0.00176	0.00175	0.00005
Nickel	Total	mg/L	0.0031	0.0054	0.0410	0.0002
Potassium	Total	mg/L	1.1	0.8	1.3	0.1
Selenium	Total	mg/L	0.0003	0.0009	0.0054	0.0001
Silicon	Total	mg/L	4.82	4.85	5.50	0.02
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.0005
Sodium	Total	mg/L	5.7	3.6	5.9	0.1
Strontium	Total	mg/L	0.181	0.356	1.25	0.0001
Thallium	Total	mg/L	<0.00001	<0.00001	0.00004	0.00001
Thorium	Total	mg/L	0.00005	0.00004	<0.00001	0.00001
Tin	Total	mg/L	0.0001	0.0002	0.0002	0.0001
Titanium	Total	mg/L	0.0006	0.0048	0.0186	0.0005
Uranium	Total	mg/L	0.00116	0.00228	0.00375	0.00001
Vanadium	Total	mg/L	0.0006	0.0004	<0.0001	0.0001
Zinc	Total	mg/L	0.0048	0.0201	0.0018	0.0005
Zirconium	Total	mg/L	0.0005	0.0009	<0.0005	0.0005
Hardness	as CaCO3	mg/L	136	342	675	1
<b>Physical and Aggregate Properties</b>						
Solids	Total Suspended	mg/L	<2	<2	<2	2
<b>Routine Water</b>						
pH	at 25 °C		7.60	7.88	7.18	

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1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

	Reference Number	898270-4	898270-5	898270-6	
	Sample Date	Oct 03, 2012	Oct 02, 2012	Oct 02, 2012	
	Sample Time	10:00	16:00	17:00	
	Sample Location				
	Sample Description	R-6	E-1	GWCC-5	
	Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit
<b>Routine Water - Continued</b>					
Electrical Conductivity	µS/cm at 25 C	260	541	1050	1
Calcium	Dissolved mg/L	36.0	70.8	155	0.1
Iron	Dissolved mg/L	0.266	0.210	0.008	0.005
Magnesium	Dissolved mg/L	12.4	37.8	78.4	0.1
Manganese	Dissolved mg/L	0.042	0.271	<0.001	0.001
Potassium	Dissolved mg/L	1.2	0.7	1.3	0.1
Silicon	Dissolved mg/L	4.40	4.36	5.26	0.05
Sodium	Dissolved mg/L	5.3	3.3	5.7	0.1
Bicarbonate	mg/L	91	174	327	5
Carbonate	mg/L	<6	<6	<6	6
Hydroxide	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3 mg/L	74	142	268	5
Nitrate - N	Dissolved mg/L	0.20	0.14	0.05	0.01
Nitrite - N	Dissolved mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved mg/L	57.7	146	354	0.5
Hardness	as CaCO3 mg/L	141	332	710	5



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Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

		Reference Number	898270-7	898270-8	898270-9	
		Sample Date	Oct 04, 2012	Oct 04, 2012	Oct 04, 2012	
		Sample Time	11:00	11:00	11:00	
		Sample Location				
		Sample Description	GWCC-4	GWCC-3	GWCC-2	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
<b>Inorganic Nonmetallic Parameters</b>						
Organic Carbon	Total Nonpurgeable	mg/L	10.1	7.5	7.4	0.5
Orthophosphate-P	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L	<0.003	<0.003	<0.003	0.003
Ammonia - N		mg/L	<0.01	<0.01	<0.01	.01
<b>Metals Dissolved</b>						
Sulfur	Dissolved	mg/L	67.1	92.7	216	0.2
Aluminum	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L	0.0006	0.0006	0.0010	0.0002
Arsenic	Dissolved	mg/L	0.0013	0.0009	0.0014	0.0002
Barium	Dissolved	mg/L	0.038	0.034	0.023	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.033	0.039	0.083	0.004
Cadmium	Dissolved	mg/L	0.00005	0.00007	0.00016	0.00001
Chromium	Dissolved	mg/L	0.0016	0.0017	0.0025	0.0004
Cobalt	Dissolved	mg/L	0.00014	0.00013	0.00022	0.00002
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.006	0.007	0.013	0.001
Molybdenum	Dissolved	mg/L	0.00258	0.00254	0.00265	0.0001
Nickel	Dissolved	mg/L	0.036	0.034	0.043	0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006	0.0017	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.403	0.475	0.853	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	0.00005	0.00006	0.00006	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0010	0.0012	0.0026	0.0004
Vanadium	Dissolved	mg/L	0.00035	0.00037	0.00054	0.0001
Zinc	Dissolved	mg/L	0.002	0.004	0.006	0.001
Zirconium	Dissolved	mg/L	0.00027	0.00029	0.00028	0.0001
<b>Metals Total</b>						
Aluminum	Total	mg/L	0.033	0.004	0.004	0.005
Antimony	Total	mg/L	0.0006	0.0006	0.0006	0.0001

**Analytical Report**

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

		Reference Number	898270-7	898270-8	898270-9	
		Sample Date	Oct 04, 2012	Oct 04, 2012	Oct 04, 2012	
		Sample Time	11:00	11:00	11:00	
		Sample Location				
		Sample Description	GWCC-4	GWCC-3	GWCC-2	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
<b>Metals Total - Continued</b>						
Arsenic	Total	mg/L	0.00156	0.00089	0.00084	0.00005
Barium	Total	mg/L	0.0462	0.0370	0.0367	0.00005
Beryllium	Total	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Bismuth	Total	mg/L	<0.0001	<0.0001	0.0001	0.0001
Boron	Total	mg/L	0.034	0.036	0.041	.002
Cadmium	Total	mg/L	0.00007	0.00008	0.00008	0.00001
Calcium	Total	mg/L	82.3	94.2	95.2	0.05
Chromium	Total	mg/L	0.0025	<0.0005	0.0005	0.0005
Cobalt	Total	mg/L	0.0004	<0.0001	<0.0001	0.0001
Copper	Total	mg/L	0.0013	0.0010	0.0010	0.0001
Iron	Total	mg/L	0.190	0.015	0.018	0.002
Lead	Total	mg/L	0.0001	<0.0001	<0.0001	0.0001
Lithium	Total	mg/L	0.0054	0.0058	0.0063	0.0005
Magnesium	Total	mg/L	46.8	61.4	62.4	0.04
Manganese	Total	mg/L	0.0146	0.0019	0.0028	0.001
Molybdenum	Total	mg/L	0.00299	0.00286	0.00293	0.00005
Nickel	Total	mg/L	0.0404	0.0329	0.0325	0.0002
Potassium	Total	mg/L	0.9	0.9	0.9	0.1
Selenium	Total	mg/L	0.0005	0.0007	0.0007	0.0001
Silicon	Total	mg/L	5.77	4.85	4.97	0.02
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.0005
Sodium	Total	mg/L	3.6	3.9	3.9	0.1
Strontium	Total	mg/L	0.393	0.458	0.470	0.0001
Thallium	Total	mg/L	0.00006	0.00007	0.00007	0.00001
Thorium	Total	mg/L	0.00001	<0.00001	<0.00001	0.00001
Tin	Total	mg/L	0.0001	0.0001	0.0002	0.0001
Titanium	Total	mg/L	<0.0005	0.0042	0.0058	0.0005
Uranium	Total	mg/L	0.00097	0.00122	0.00128	0.00001
Vanadium	Total	mg/L	0.0003	<0.0001	<0.0001	0.0001
Zinc	Total	mg/L	0.0043	0.0044	0.0030	0.0005
Zirconium	Total	mg/L	<0.0005	<0.0005	0.0008	0.0005
Hardness	as CaCO3	mg/L	398	488	495	1
<b>Physical and Aggregate Properties</b>						
Solids	Total Suspended	mg/L	14	<2	<2	2
<b>Routine Water</b>						
pH	at 25 °C		7.37	7.36	7.55	

## Analytical Report

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

	Reference Number	898270-7	898270-8	898270-9	
	Sample Date	Oct 04, 2012	Oct 04, 2012	Oct 04, 2012	
	Sample Time	11:00	11:00	11:00	
	Sample Location				
	Sample Description	GWCC-4	GWCC-3	GWCC-2	
	Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit
<b>Routine Water - Continued</b>					
Electrical Conductivity	µS/cm at 25 C	641	781	1510	1
Calcium	Dissolved mg/L	83.1	96.3	155	0.1
Iron	Dissolved mg/L	0.007	0.015	0.010	0.005
Magnesium	Dissolved mg/L	47.6	63.6	154	0.1
Manganese	Dissolved mg/L	<0.001	<0.001	<0.001	0.001
Potassium	Dissolved mg/L	0.9	0.9	1.5	0.1
Silicon	Dissolved mg/L	4.96	4.47	4.81	0.05
Sodium	Dissolved mg/L	3.3	3.6	5.7	0.1
Bicarbonate	mg/L	211	224	295	5
Carbonate	mg/L	<6	<6	<6	6
Hydroxide	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3 mg/L	173	184	242	5
Nitrate - N	Dissolved mg/L	0.05	0.10	0.27	0.01
Nitrite - N	Dissolved mg/L	<0.01	0.10	<0.01	0.01
Sulfate (SO4)	Dissolved mg/L	178	248	643	0.5
Hardness	as CaCO3 mg/L	404	502	1020	5

## Analytical Report

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

		Reference Number	898270-10	898270-11	898270-12	
		Sample Date	Oct 04, 2012	Oct 02, 2012	Oct 02, 2012	
		Sample Time	10:00	15:00	14:00	
		Sample Location				
		Sample Description	GWCC-1	E-2	E-3	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
<b>Inorganic Nonmetallic Parameters</b>						
Organic Carbon	Total Nonpurgeable	mg/L	5.4	14.9	14.9	0.5
Orthophosphate-P	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L	<0.003	0.014	0.049	0.003
Ammonia - N		mg/L	<0.01	<0.01	<0.01	.01
<b>Metals Dissolved</b>						
Sulfur	Dissolved	mg/L	390	73.6	70.7	0.2
Aluminum	Dissolved	mg/L	<0.005	0.014	0.029	0.005
Antimony	Dissolved	mg/L	0.0012	0.0004	0.0005	0.0002
Arsenic	Dissolved	mg/L	0.0020	0.0012	0.0010	0.0002
Barium	Dissolved	mg/L	0.018	0.059	0.050	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.288	0.034	0.040	0.004
Cadmium	Dissolved	mg/L	0.00020	0.00004	0.00002	0.00001
Chromium	Dissolved	mg/L	0.0041	0.0018	0.0016	0.0004
Cobalt	Dissolved	mg/L	0.00030	0.00079	0.00043	0.00002
Copper	Dissolved	mg/L	<0.001	0.002	0.002	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.082	0.009	0.005	0.001
Molybdenum	Dissolved	mg/L	0.00260	0.00169	0.00138	0.0001
Nickel	Dissolved	mg/L	0.083	0.013	0.009	0.001
Selenium	Dissolved	mg/L	0.0026	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	2.060	0.459	0.346	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	0.00008	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0067	0.0026	0.0036	0.0004
Vanadium	Dissolved	mg/L	0.00082	0.00054	0.00071	0.0001
Zinc	Dissolved	mg/L	0.012	0.003	0.004	0.001
Zirconium	Dissolved	mg/L	0.00027	0.00067	0.00075	0.0001
<b>Metals Total</b>						
Aluminum	Total	mg/L	0.002	0.046	0.363	0.005
Antimony	Total	mg/L	0.0012	0.0004	0.0005	0.0001

## Analytical Report

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

		Reference Number	898270-10	898270-11	898270-12	
		Sample Date	Oct 04, 2012	Oct 02, 2012	Oct 02, 2012	
		Sample Time	10:00	15:00	14:00	
		Sample Location				
		Sample Description	GWCC-1	E-2	E-3	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
<b>Metals Total - Continued</b>						
Arsenic	Total	mg/L	0.00170	0.00140	0.00121	0.00005
Barium	Total	mg/L	0.0194	0.0680	0.0749	0.00005
Beryllium	Total	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Bismuth	Total	mg/L	<0.0001	<0.0001	0.0001	0.0001
Boron	Total	mg/L	0.280	0.035	0.042	.002
Cadmium	Total	mg/L	0.00022	0.00006	0.00005	0.00001
Calcium	Total	mg/L	200	80.4	67.6	0.05
Chromium	Total	mg/L	0.0014	0.0013	0.0013	0.0005
Cobalt	Total	mg/L	<0.0001	0.0008	0.0005	0.0001
Copper	Total	mg/L	0.0010	0.0024	0.0027	0.0001
Iron	Total	mg/L	0.005	0.537	0.770	0.002
Lead	Total	mg/L	<0.0001	0.0001	0.0003	0.0001
Lithium	Total	mg/L	0.0717	0.0084	0.0046	0.0005
Magnesium	Total	mg/L	282	50.2	48.4	0.04
Manganese	Total	mg/L	0.0005	0.288	0.136	0.001
Molybdenum	Total	mg/L	0.00288	0.00194	0.00160	0.00005
Nickel	Total	mg/L	0.0762	0.0130	0.0092	0.0002
Potassium	Total	mg/L	3.0	0.9	0.7	0.1
Selenium	Total	mg/L	0.0028	0.0010	0.0007	0.0001
Silicon	Total	mg/L	6.25	5.01	6.60	0.02
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.0005
Sodium	Total	mg/L	18.3	4.3	4.5	0.1
Strontium	Total	mg/L	2.07	0.433	0.328	0.0001
Thallium	Total	mg/L	0.00008	0.00001	<0.00001	0.00001
Thorium	Total	mg/L	<0.00001	0.00005	0.00008	0.00001
Tin	Total	mg/L	0.0002	0.0002	0.0002	0.0001
Titanium	Total	mg/L	0.0483	0.0006	0.0254	0.0005
Uranium	Total	mg/L	0.00627	0.00235	0.00357	0.00001
Vanadium	Total	mg/L	0.0002	0.0005	0.0016	0.0001
Zinc	Total	mg/L	0.0081	0.0037	0.0047	0.0005
Zirconium	Total	mg/L	<0.0005	0.0008	0.0013	0.0005
Hardness	as CaCO3	mg/L	1660	407	368	1
<b>Physical and Aggregate Properties</b>						
Solids	Total Suspended	mg/L	<2	<2	13	2
<b>Routine Water</b>						
pH	at 25 °C		7.32	7.84	7.85	

## Analytical Report

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

	Reference Number	898270-10	898270-11	898270-12	
	Sample Date	Oct 04, 2012	Oct 02, 2012	Oct 02, 2012	
	Sample Time	10:00	15:00	14:00	
	Sample Location				
	Sample Description	GWCC-1	E-2	E-3	
	Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit
<b>Routine Water - Continued</b>					
Electrical Conductivity	µS/cm at 25 C	2320	715	622	1
Calcium	Dissolved mg/L	202	82.3	69.8	0.1
Iron	Dissolved mg/L	0.014	0.298	0.148	0.005
Magnesium	Dissolved mg/L	288	52.1	49.8	0.1
Manganese	Dissolved mg/L	<0.001	0.264	0.119	0.001
Potassium	Dissolved mg/L	2.9	0.9	0.7	0.1
Silicon	Dissolved mg/L	5.84	4.58	5.65	0.05
Sodium	Dissolved mg/L	16.9	4.1	4.3	0.1
Bicarbonate	mg/L	388	199	161	5
Carbonate	mg/L	<6	<6	<6	6
Hydroxide	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO <sub>3</sub> mg/L	318	163	132	5
Nitrate - N	Dissolved mg/L	0.38	0.12	0.07	0.01
Nitrite - N	Dissolved mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO <sub>4</sub> )	Dissolved mg/L	1280	222	211	0.5
Hardness	as CaCO <sub>3</sub> mg/L	1690	420	380	5

## Analytical Report

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

		Reference Number	898270-13	898270-14	898270-15	
		Sample Date	Oct 03, 2012	Oct 03, 2012	Oct 03, 2012	
		Sample Time	11:00	10:00	09:00	
		Sample Location				
		Sample Description	E-4	E-7	E-8	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
<b>Inorganic Nonmetallic Parameters</b>						
Organic Carbon	Total Nonpurgeable	mg/L	14.1	14.7	9.2	0.5
Orthophosphate-P	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L	0.009	0.009	0.006	0.003
Ammonia - N		mg/L	<0.01	<0.01	<0.01	.01
<b>Metals Dissolved</b>						
Sulfur	Dissolved	mg/L	77.5	75.4	20.1	0.2
Aluminum	Dissolved	mg/L	0.015	0.017	0.065	0.005
Antimony	Dissolved	mg/L	0.0004	0.0003	<0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0011	0.0010	0.0004	0.0002
Barium	Dissolved	mg/L	0.055	0.058	0.066	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.044	0.037	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00004	0.00006	0.00003	0.00001
Chromium	Dissolved	mg/L	0.0012	0.0015	0.0007	0.0004
Cobalt	Dissolved	mg/L	0.00088	0.00079	0.00056	0.00002
Copper	Dissolved	mg/L	0.002	0.002	0.002	0.001
Lead	Dissolved	mg/L	<0.0001	0.0001	0.0001	0.0001
Lithium	Dissolved	mg/L	0.012	0.011	0.005	0.001
Molybdenum	Dissolved	mg/L	0.00176	0.00152	0.00042	0.0001
Nickel	Dissolved	mg/L	0.015	0.015	0.004	0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.494	0.467	0.188	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0024	0.0025	0.0012	0.0004
Vanadium	Dissolved	mg/L	0.00036	0.00040	0.00047	0.0001
Zinc	Dissolved	mg/L	0.004	0.006	0.013	0.001
Zirconium	Dissolved	mg/L	0.00092	0.00120	0.00051	0.0001
<b>Metals Total</b>						
Aluminum	Total	mg/L	0.045	0.060	0.149	0.005
Antimony	Total	mg/L	0.0004	0.0004	0.0001	0.0001

**Analytical Report**

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

		Reference Number	898270-13	898270-14	898270-15	
		Sample Date	Oct 03, 2012	Oct 03, 2012	Oct 03, 2012	
		Sample Time	11:00	10:00	09:00	
		Sample Location				
		Sample Description	E-4	E-7	E-8	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
<b>Metals Total - Continued</b>						
Arsenic	Total	mg/L	0.00119	0.00111	0.00045	0.00005
Barium	Total	mg/L	0.0704	0.0617	0.0482	0.00005
Beryllium	Total	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Bismuth	Total	mg/L	0.0001	<0.0001	0.0001	0.0001
Boron	Total	mg/L	0.046	0.038	0.004	.002
Cadmium	Total	mg/L	0.00006	0.00007	0.00004	0.00001
Calcium	Total	mg/L	82.4	77.7	34.6	0.05
Chromium	Total	mg/L	0.0008	0.0008	<0.0005	0.0005
Cobalt	Total	mg/L	0.0008	0.0008	0.0006	0.0001
Copper	Total	mg/L	0.0023	0.0024	0.0024	0.0001
Iron	Total	mg/L	0.444	0.465	0.420	0.002
Lead	Total	mg/L	0.0002	0.0001	<0.0001	0.0001
Lithium	Total	mg/L	0.0116	0.0108	0.0048	0.0005
Magnesium	Total	mg/L	56.9	54.5	12.2	0.04
Manganese	Total	mg/L	0.268	0.321	0.0439	0.001
Molybdenum	Total	mg/L	0.00203	0.00171	0.00063	0.00005
Nickel	Total	mg/L	0.0140	0.0140	0.0030	0.0002
Potassium	Total	mg/L	0.9	0.9	1.1	0.1
Selenium	Total	mg/L	0.0008	0.0008	0.0003	0.0001
Silicon	Total	mg/L	5.26	5.29	4.80	0.02
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.0005
Sodium	Total	mg/L	5.0	4.8	5.5	0.1
Strontium	Total	mg/L	0.484	0.447	0.180	0.0001
Thallium	Total	mg/L	0.00001	<0.00001	<0.00001	0.00001
Thorium	Total	mg/L	0.00004	0.00005	0.00008	0.00001
Tin	Total	mg/L	0.0002	0.0002	0.0002	0.0001
Titanium	Total	mg/L	0.0038	0.0033	<0.0005	0.0005
Uranium	Total	mg/L	0.00254	0.00260	0.00123	0.00001
Vanadium	Total	mg/L	0.0005	0.0004	0.0006	0.0001
Zinc	Total	mg/L	0.0061	0.0052	0.0050	0.0005
Zirconium	Total	mg/L	0.0010	0.0012	0.0006	0.0005
Hardness	as CaCO3	mg/L	440	418	136	1
<b>Physical and Aggregate Properties</b>						
Solids	Total Suspended	mg/L	<2	<2	<2	2
<b>Routine Water</b>						
pH	at 25 °C		7.72	7.78	7.65	



## Analytical Report

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

	Reference Number	898270-13	898270-14	898270-15	
	Sample Date	Oct 03, 2012	Oct 03, 2012	Oct 03, 2012	
	Sample Time	11:00	10:00	09:00	
	Sample Location				
	Sample Description	E-4	E-7	E-8	
	Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit
<b>Routine Water - Continued</b>					
Electrical Conductivity	µS/cm at 25 C	710	691	266	1
Calcium	Dissolved mg/L	82.6	80.5	38.3	0.1
Iron	Dissolved mg/L	0.286	0.274	0.263	0.005
Magnesium	Dissolved mg/L	57.4	56.3	12.6	0.1
Manganese	Dissolved mg/L	0.254	0.302	0.039	0.001
Potassium	Dissolved mg/L	1.0	1.0	1.1	0.1
Silicon	Dissolved mg/L	4.71	4.76	4.38	0.05
Sodium	Dissolved mg/L	4.8	4.6	5.2	0.1
Bicarbonate	mg/L	205	205	92	5
Carbonate	mg/L	<6	<6	<6	6
Hydroxide	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO <sub>3</sub> mg/L	168	168	75	5
Nitrate - N	Dissolved mg/L	0.12	0.13	0.13	0.01
Nitrite - N	Dissolved mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO <sub>4</sub> )	Dissolved mg/L	230	219	56.5	0.5
Hardness	as CaCO <sub>3</sub> mg/L	443	433	148	5

## Analytical Report

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

		Reference Number	898270-16	898270-17	898270-18	
		Sample Date	Oct 02, 2012	Oct 04, 2012		
		Sample Time	NA	NA		
		Sample Location				
		Sample Description	BD-1	BD-2	FB	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
<b>Inorganic Nonmetallic Parameters</b>						
Organic Carbon	Total Nonpurgeable	mg/L	16.2	9.6	<0.5	0.5
Orthophosphate-P	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002
Phosphorus	Total	mg/L	0.012	0.082	0.039	0.003
Ammonia - N		mg/L	<0.01	<0.01	<0.01	.01
<b>Metals Dissolved</b>						
Sulfur	Dissolved	mg/L	54.2	93.1	<0.2	0.2
Aluminum	Dissolved	mg/L	0.018	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L	0.0003	0.0005	<0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0011	0.0011	<0.0002	0.0002
Barium	Dissolved	mg/L	0.061	0.033	<0.001	0.001
Beryllium	Dissolved	mg/L	<0.00004	<0.00004	<0.00004	0.00004
Bismuth	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Boron	Dissolved	mg/L	0.009	0.038	<0.004	0.004
Cadmium	Dissolved	mg/L	0.00004	0.00008	<0.00001	0.00001
Chromium	Dissolved	mg/L	0.0011	0.0016	<0.0004	0.0004
Cobalt	Dissolved	mg/L	0.00054	0.00014	<0.00002	0.00002
Copper	Dissolved	mg/L	0.002	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.005	0.007	<0.001	0.001
Molybdenum	Dissolved	mg/L	0.00151	0.00253	<0.00010	0.0001
Nickel	Dissolved	mg/L	0.007	0.034	<0.001	0.001
Selenium	Dissolved	mg/L	<0.0006	<0.0006	<0.0006	0.0006
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Titanium	Dissolved	mg/L	<0.010	<0.010	<0.010	0.01
Strontium	Dissolved	mg/L	0.356	0.476	<0.001	0.001
Tellurium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Thallium	Dissolved	mg/L	<0.00001	0.00006	<0.00001	0.00001
Thorium	Dissolved	mg/L	<0.0004	<0.0004	<0.0004	0.0004
Tin	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Uranium	Dissolved	mg/L	0.0025	0.0012	<0.0004	0.0004
Vanadium	Dissolved	mg/L	0.00042	0.00029	<0.00010	0.0001
Zinc	Dissolved	mg/L	0.003	0.004	0.003	0.001
Zirconium	Dissolved	mg/L	0.00081	0.00030	<0.00010	0.0001
<b>Metals Total</b>						
Aluminum	Total	mg/L	0.027	0.005	0.003	0.005
Antimony	Total	mg/L	0.0003	0.0006	<0.0001	0.0001

**Analytical Report**

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

		Reference Number	898270-16	898270-17	898270-18	
		Sample Date	Oct 02, 2012	Oct 04, 2012		
		Sample Time	NA	NA		
		Sample Location				
		Sample Description	BD-1	BD-2	FB	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
<b>Metals Total - Continued</b>						
Arsenic	Total	mg/L	0.00082	0.00086	<0.00005	0.00005
Barium	Total	mg/L	0.0640	0.0429	0.00152	0.00005
Beryllium	Total	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Bismuth	Total	mg/L	0.0001	0.0002	<0.0001	0.0001
Boron	Total	mg/L	0.012	0.039	<0.002	.002
Cadmium	Total	mg/L	0.00005	0.00009	<0.00001	0.00001
Calcium	Total	mg/L	68.9	93.7	0.14	0.05
Chromium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L	0.0004	<0.0001	<0.0001	0.0001
Copper	Total	mg/L	0.0026	0.0010	0.0002	0.0001
Iron	Total	mg/L	0.279	0.013	0.003	0.002
Lead	Total	mg/L	<0.0001	0.0003	<0.0001	0.0001
Lithium	Total	mg/L	0.0044	0.0060	<0.0005	0.0005
Magnesium	Total	mg/L	37.1	60.8	<0.04	0.04
Manganese	Total	mg/L	0.277	0.0020	0.0005	0.001
Molybdenum	Total	mg/L	0.00170	0.00292	<0.00005	0.00005
Nickel	Total	mg/L	0.0052	0.0322	<0.0002	0.0002
Potassium	Total	mg/L	0.7	0.9	<0.1	0.1
Selenium	Total	mg/L	0.0009	0.0007	<0.0001	0.0001
Silicon	Total	mg/L	4.78	4.77	0.03	0.02
Silver	Total	mg/L	<0.00001	<0.00001	<0.00001	0.0005
Sodium	Total	mg/L	3.5	4.0	0.2	0.1
Strontium	Total	mg/L	0.327	0.460	0.0010	0.0001
Thallium	Total	mg/L	<0.00001	0.00008	<0.00001	0.00001
Thorium	Total	mg/L	0.00006	0.00002	<0.00001	0.00001
Tin	Total	mg/L	0.0002	0.0002	0.0001	0.0001
Titanium	Total	mg/L	<0.0005	0.0040	<0.0005	0.0005
Uranium	Total	mg/L	0.00222	0.00128	<0.00001	0.00001
Vanadium	Total	mg/L	0.0004	<0.0001	<0.0001	0.0001
Zinc	Total	mg/L	0.0024	0.0077	0.0022	0.0005
Zirconium	Total	mg/L	0.0008	<0.0005	<0.0005	0.0005
Hardness	as CaCO3	mg/L	325	484	<1	1
<b>Physical and Aggregate Properties</b>						
Solids	Total Suspended	mg/L	<2	<2	<2	2
<b>Routine Water</b>						
pH	at 25 °C		7.94	7.45	6.18	

## Analytical Report

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

	Reference Number	898270-16	898270-17	898270-18	
	Sample Date	Oct 02, 2012	Oct 04, 2012		
	Sample Time	NA	NA		
	Sample Location				
	Sample Description	BD-1	BD-2	FB	
	Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit
<b>Routine Water - Continued</b>					
Electrical Conductivity	µS/cm at 25 C	553	809	1	1
Calcium	Dissolved mg/L	71.6	97.8	0.15	0.1
Iron	Dissolved mg/L	0.214	0.010	<0.005	0.005
Magnesium	Dissolved mg/L	38.0	64.2	<0.1	0.1
Manganese	Dissolved mg/L	0.272	<0.001	<0.001	0.001
Potassium	Dissolved mg/L	0.8	0.9	<0.1	0.1
Silicon	Dissolved mg/L	4.43	4.48	<0.05	0.05
Sodium	Dissolved mg/L	3.2	3.8	<0.1	0.1
Bicarbonate	mg/L	175	224	<5	5
Carbonate	mg/L	<6	<6	<6	6
Hydroxide	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3 mg/L	144	184	<5	5
Nitrate - N	Dissolved mg/L	0.16	0.08	<0.01	0.01
Nitrite - N	Dissolved mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved mg/L	159	268	<0.5	0.5
Hardness	as CaCO3 mg/L	335	508	<5	5

## Analytical Report

Bill To: Laberge Environmental Services Project:  
 Report To: Laberge Environmental Services ID:  
 Box 21072 Name: Clinton Creek  
 1-405 Ogilvie Street Location: Clinton Creek  
 Whitehorse, YT, Canada LSD:  
 Y1A 6P7 P.O.:  
 Attn: Bonnie Burns Acct code:

Sampled By:  
 Company:

Lot ID: **898270**  
 Control Number:  
 Date Received: Oct 9, 2012  
 Date Reported: Dec 28, 2012  
 Report Number: 1795065

Reference Number 898270-19  
 Sample Date  
 Sample Time  
 Sample Location  
 Sample Description Travel Blank  
 Matrix Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
<b>Inorganic Nonmetallic Parameters</b>					
Organic Carbon	Total Nonpurgeable	mg/L	<0.5		0.5
Orthophosphate-P	Dissolved	mg/L	<0.002		0.002
Phosphorus	Total	mg/L	<0.003		0.003
Ammonia - N		mg/L	<0.01		.01
<b>Metals Dissolved</b>					
Sulfur	Dissolved	mg/L	<0.2		0.2
Aluminum	Dissolved	mg/L	<0.005		0.005
Antimony	Dissolved	mg/L	<0.0002		0.0002
Arsenic	Dissolved	mg/L	<0.0002		0.0002
Barium	Dissolved	mg/L	<0.001		0.001
Beryllium	Dissolved	mg/L	<0.00004		0.00004
Bismuth	Dissolved	mg/L	<0.001		0.001
Boron	Dissolved	mg/L	<0.004		0.004
Cadmium	Dissolved	mg/L	<0.00001		0.00001
Chromium	Dissolved	mg/L	<0.0004		0.0004
Cobalt	Dissolved	mg/L	<0.00002		0.00002
Copper	Dissolved	mg/L	<0.001		0.001
Lead	Dissolved	mg/L	<0.0001		0.0001
Lithium	Dissolved	mg/L	<0.001		0.001
Molybdenum	Dissolved	mg/L	<0.00010		0.0001
Nickel	Dissolved	mg/L	<0.001		0.001
Selenium	Dissolved	mg/L	<0.0006		0.0006
Silver	Dissolved	mg/L	<0.00001		0.00001
Titanium	Dissolved	mg/L	<0.010		0.01
Strontium	Dissolved	mg/L	<0.001		0.001
Tellurium	Dissolved	mg/L	<0.0001		0.0001
Thallium	Dissolved	mg/L	<0.00001		0.00001
Thorium	Dissolved	mg/L	<0.0004		0.0004
Tin	Dissolved	mg/L	<0.0001		0.0001
Uranium	Dissolved	mg/L	<0.0004		0.0004
Vanadium	Dissolved	mg/L	<0.00010		0.0001
Zinc	Dissolved	mg/L	<0.001		0.001
Zirconium	Dissolved	mg/L	<0.00010		0.0001
<b>Metals Total</b>					
Aluminum	Total	mg/L	0.002		0.005
Antimony	Total	mg/L	<0.0001		0.0001

**Analytical Report**

Bill To: Laberge Environmental Services Project:  
 Report To: Laberge Environmental Services ID:  
 Box 21072 Name: Clinton Creek  
 1-405 Ogilvie Street Location: Clinton Creek  
 Whitehorse, YT, Canada LSD:  
 Y1A 6P7 P.O.:  
 Attn: Bonnie Burns Acct code:

Sampled By:  
 Company:

Lot ID: **898270**  
 Control Number:  
 Date Received: Oct 9, 2012  
 Date Reported: Dec 28, 2012  
 Report Number: 1795065

Reference Number 898270-19  
 Sample Date  
 Sample Time  
 Sample Location  
 Sample Description Travel Blank  
 Matrix Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
<b>Metals Total - Continued</b>					
Arsenic	Total	mg/L	<0.00005		0.00005
Barium	Total	mg/L	0.00005		0.00005
Beryllium	Total	mg/L	<0.00005		0.00005
Bismuth	Total	mg/L	0.0001		0.0001
Boron	Total	mg/L	0.003		.002
Cadmium	Total	mg/L	0.00002		0.00001
Calcium	Total	mg/L	<0.05		0.05
Chromium	Total	mg/L	<0.0005		0.0005
Cobalt	Total	mg/L	<0.0001		0.0001
Copper	Total	mg/L	0.0004		0.0001
Iron	Total	mg/L	0.004		0.002
Lead	Total	mg/L	<0.0001		0.0001
Lithium	Total	mg/L	<0.0005		0.0005
Magnesium	Total	mg/L	<0.04		0.04
Manganese	Total	mg/L	<0.0002		0.001
Molybdenum	Total	mg/L	<0.00005		0.00005
Nickel	Total	mg/L	<0.0002		0.0002
Potassium	Total	mg/L	<0.1		0.1
Selenium	Total	mg/L	<0.0001		0.0001
Silicon	Total	mg/L	0.04		0.02
Silver	Total	mg/L	<0.00001		0.0005
Sodium	Total	mg/L	0.2		0.1
Strontium	Total	mg/L	<0.0001		0.0001
Thallium	Total	mg/L	<0.00001		0.00001
Thorium	Total	mg/L	<0.00001		0.00001
Tin	Total	mg/L	0.0002		0.0001
Titanium	Total	mg/L	<0.0005		0.0005
Uranium	Total	mg/L	<0.00001		0.00001
Vanadium	Total	mg/L	<0.0001		0.0001
Zinc	Total	mg/L	0.0015		0.0005
Zirconium	Total	mg/L	<0.0005		0.0005
Hardness	as CaCO3	mg/L	<1		1
<b>Physical and Aggregate Properties</b>					
Solids	Total Suspended	mg/L	<2		2
<b>Routine Water</b>					
pH	at 25 °C		5.73		

**Analytical Report**

Bill To: Laberge Environmental Services Project:  
 Report To: Laberge Environmental Services ID:  
 Box 21072 Name: Clinton Creek  
 1-405 Ogilvie Street Location: Clinton Creek  
 Whitehorse, YT, Canada LSD:  
 Y1A 6P7 P.O.:  
 Attn: Bonnie Burns Acct code:

Sampled By:  
 Company:

Lot ID: **898270**  
 Control Number:  
 Date Received: Oct 9, 2012  
 Date Reported: Dec 28, 2012  
 Report Number: 1795065

Reference Number 898270-19  
 Sample Date  
 Sample Time  
 Sample Location  
 Sample Description Travel Blank  
 Matrix Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
<b>Routine Water - Continued</b>					
Electrical Conductivity	µS/cm at 25 C	<1			1
Calcium	Dissolved mg/L	<0.10			0.1
Iron	Dissolved mg/L	<0.005			0.005
Magnesium	Dissolved mg/L	<0.1			0.1
Manganese	Dissolved mg/L	<0.001			0.001
Potassium	Dissolved mg/L	<0.1			0.1
Silicon	Dissolved mg/L	<0.05			0.05
Sodium	Dissolved mg/L	0.1			0.1
Bicarbonate	mg/L	<5			5
Carbonate	mg/L	<6			6
Hydroxide	mg/L	<5			5
T-Alkalinity	as CaCO3 mg/L	<5			5
Nitrate - N	Dissolved mg/L	<0.01			0.01
Nitrite - N	Dissolved mg/L	<0.01			0.01
Sulfate (SO4)	Dissolved mg/L	<0.5			0.5
Hardness	as CaCO3 mg/L	<5			5

Approved by:   
 Anthony Neumann, MSc  
 Laboratory Operations Manager

## Quality Control

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

### Inorganic Nonmetallic Parameters

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Orthophosphate-P	mg/L	0	-0.002	0.002	yes
Phosphorus	mg/L	0.0001	-0.003	0.003	yes
Ammonium - N	ug/L	-22.397	-110.00	10.00	yes
Date Acquired:	October 10, 2012				
Organic Carbon	mg/L	0.00164	-0.5	0.5	yes
Date Acquired:	October 10, 2012				

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Orthophosphate-P	mg/L	99.00	90	110	yes
Phosphorus	mg/L	100.60	90	110	yes
Ammonium - N	ug/L	92.44	85	115	yes
Date Acquired:	October 10, 2012				
Orthophosphate-P	mg/L	92.00	90	110	yes
Phosphorus	mg/L	105.00	80	120	yes
Ammonium - N	ug/L	85.10	70	130	yes
Date Acquired:	October 10, 2012				

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mg/L	0.21	0.24	0.07	0.42	yes
Date Acquired:	October 10, 2012					
Orthophosphate-P	mg/L	1.18	1.208	1.160	1.256	yes
Date Acquired:	October 10, 2012					

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Organic Carbon	mg/L	16.8	195	10	1.0	yes
Date Acquired:	October 10, 2012					
Orthophosphate-P	mg/L	<0.002	<0.002	20	0.050	yes
Phosphorus	mg/L	0.032	0.031	20	0.050	yes
Ammonia - N	mg/L	<0.01	<0.01	20	50.00	yes
Date Acquired:	October 10, 2012					

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Organic Carbon	mg/L	126	109.6	133.6	yes
Date Acquired:	October 10, 2012				
Organic Carbon	mg/L	14.7	12.8	17.2	yes
Date Acquired:	October 10, 2012				
Organic Carbon	mg/L	2.9	2.4	4.0	yes
Date Acquired:	October 10, 2012				
Phosphorus	mg/L	0.113	0.039	0.159	yes
Date Acquired:	October 10, 2012				



## Quality Control

Bill To: Laberge Environmental Services Project:  
 Report To: Laberge Environmental Services ID:  
 Box 21072 Name: Clinton Creek  
 1-405 Ogilvie Street Location: Clinton Creek  
 Whitehorse, YT, Canada LSD:  
 Y1A 6P7 P.O.:  
 Attn: Bonnie Burns Acct code:

Sampled By:  
 Company:

Lot ID: **898270**  
 Control Number:  
 Date Received: Oct 9, 2012  
 Date Reported: Dec 28, 2012  
 Report Number: 1795065

## Metals Dissolved

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Aluminum	mg/L	0.274	0.300	0.256	0.344	yes
Antimony	mg/L	0.0747	0.0750	0.0558	0.0942	yes
Arsenic	mg/L	0.0632	0.0649	0.0529	0.0769	yes
Barium	mg/L	0.189	0.200	0.182	0.218	yes
Beryllium	mg/L	0.0712	0.07520	0.06560	0.08480	yes
Boron	mg/L	0.091	0.087	0.070	0.104	yes
Cadmium	mg/L	0.05660	0.05800	0.04960	0.06640	yes
Chromium	mg/L	0.0608	0.0675	0.0558	0.0792	yes
Cobalt	mg/L	0.0743	0.07980	0.06990	0.08970	yes
Copper	mg/L	0.055	0.057	0.052	0.061	yes
Lead	mg/L	0.160	0.1527	0.1305	0.1749	yes
Molybdenum	mg/L	0.05680	0.05990	0.04970	0.07010	yes
Nickel	mg/L	0.207	0.220	0.198	0.243	yes
Selenium	mg/L	0.1100	0.1099	0.0856	0.1342	yes
Silver	mg/L	0.01350	0.01499	0.01319	0.01679	yes
Strontium	mg/L	0.047	0.050	0.043	0.058	yes
Thallium	mg/L	0.06650	0.06508	0.05278	0.07738	yes
Vanadium	mg/L	0.6930	0.75000	0.66390	0.83610	yes
Zinc	mg/L	0.121	0.130	0.115	0.145	yes

Date Acquired: October 11, 2012

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Sulfur	mg/L	64.3	64.0	30	3.0	yes
Titanium	mg/L	<0.010	<0.010	30	0.012	yes

Date Acquired: October 11, 2012

## Metals Total

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Aluminum	µg/L	0.721343	-1	1	yes
Antimony	µg/L	0.0142339	-0.1	0.1	yes
Arsenic	µg/L	0.00570692	-0.05	0.05	yes
Barium	µg/L	0.0313498	-0.02	0.08	yes
Beryllium	µg/L	0.000221296	-0.05	0.05	yes
Bismuth	µg/L	0.012937	-0.1	0.1	yes
Boron	µg/L	0.492377	-2	2	yes
Cadmium	µg/L	-0.000444112	-0.01	0.01	yes
Calcium	mg/L	-0.0021	-0.05	0.05	yes
Chromium	µg/L	-0.096853	-0.5	0.5	yes
Cobalt	µg/L	0.00403074	-0.1	0.1	yes
Copper	µg/L	0.100209	-0.1	0.1	yes
Iron	µg/L	0.312	-2	2	yes
Lead	µg/L	0.00336165	-0.1	0.1	yes

## Quality Control

Bill To: Laberge Environmental Services Project:  
 Report To: Laberge Environmental Services ID:  
 Box 21072 Name: Clinton Creek  
 1-405 Ogilvie Street Location: Clinton Creek  
 Whitehorse, YT, Canada LSD:  
 Y1A 6P7 P.O.:  
 Attn: Bonnie Burns Acct code:

Sampled By:  
 Company:

Lot ID: **898270**  
 Control Number:  
 Date Received: Oct 9, 2012  
 Date Reported: Dec 28, 2012  
 Report Number: 1795065

## Metals Total - Continued

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Lithium	µg/L	0.0381365	-0.5	0.5	yes
Magnesium	mg/L	0.0031	-0.02	0.02	yes
Manganese	µg/L	0.149904	-0.2	0.2	yes
Molybdenum	µg/L	0.0025	-0.05	0.05	yes
Nickel	µg/L	0.0234383	-0.2	0.2	yes
Potassium	mg/L	0.0223	-0.1	0.1	yes
Selenium	µg/L	0.00144186	-0.0	0.0	yes
Silicon	mg/L	0.0049	-0.02	0.02	yes
Silver	µg/L	0.00165671	-0.01	0.01	yes
Sodium	mg/L	0.0226	-0.2	0.2	yes
Strontium	µg/L	0.0267853	-0.1	0.1	yes
Thallium	µg/L	0.0009	-0.01	0.01	yes
Thorium	µg/L	0.005	-0.01	0.01	yes
Tin	µg/L	0.0347	-0.1	0.1	yes
Titanium	µg/L	0.0626539	-0.5	0.5	yes
Uranium	µg/L	0.004	-0.01	0.01	yes
Vanadium	µg/L	-0.00763026	-0.1	0.1	yes
Zinc	µg/L	0.335	-0.5	0.5	yes
Zirconium	µg/L	0.0548408	-0.5	0.5	yes

Date Acquired: October 11, 2012

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Aluminum	µg/L	394	402	15	1	yes
Antimony	µg/L	0.5	0.6	15	0.0	yes
Arsenic	µg/L	1.21	1.27	15	0.01	yes
Barium	µg/L	74.9	67.6	15	0.05	yes
Beryllium	µg/L	<0.05	<0.05	15	0.05	yes
Bismuth	µg/L	0.1	0.1	15	0.1	yes
Boron	µg/L	42	41	15	2	yes
Cadmium	µg/L	0.05	0.05	15	0.01	yes
Calcium	mg/L	82.3	82.3	15	0.05	yes
Chromium	µg/L	2.3	2.3	15	0.5	yes
Cobalt	µg/L	0.5	0.6	15	0.1	yes
Copper	µg/L	13.0	12.4	15	0.1	yes
Iron	µg/L	770	855	15	1	yes
Lead	µg/L	0.3	0.4	15	0.0	yes
Lithium	µg/L	4.6	4.7	15	0.5	yes
Magnesium	mg/L	46.8	46.8	15	0.04	yes
Manganese	µg/L	832	800	15	0.1	yes
Molybdenum	µg/L	42.4	43.4	15	0.05	yes
Nickel	µg/L	9.2	9.5	15	0.1	yes
Potassium	mg/L	0.9	0.9	15	0.1	yes
Selenium	µg/L	0.7	0.8	15	0.1	yes

## Quality Control

Bill To: Laberge Environmental Services Project:  
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 Box 21072 Name: Clinton Creek  
 1-405 Ogilvie Street Location: Clinton Creek  
 Whitehorse, YT, Canada LSD:  
 Y1A 6P7 P.O.:  
 Attn: Bonnie Burns Acct code:

Sampled By:  
 Company:

Lot ID: **898270**  
 Control Number:  
 Date Received: Oct 9, 2012  
 Date Reported: Dec 28, 2012  
 Report Number: 1795065

## Metals Total - Continued

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Silicon	mg/L	5.77	5.76	15	0.02	yes
Silver	µg/L	<0.01	0.01	15	0.01	yes
Sodium	mg/L	3.6	3.6	15	0.1	yes
Strontium	µg/L	328	335	15	0.1	yes
Thallium	µg/L	<0.01	0.01	15	0.01	yes
Thorium	µg/L	0.08	0.09	15	0.01	yes
Tin	µg/L	0.2	0.2	15	0.1	yes
Titanium	µg/L	120	111	15	0.5	yes
Uranium	µg/L	3.57	3.69	15	0.01	yes
Vanadium	µg/L	1.6	1.8	15	0.1	yes
Zinc	µg/L	57.7	60.7	15	0.5	yes
Zirconium	µg/L	1.3	0.9	15	0.5	yes

Date Acquired: October 11, 2012

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Antimony	µg/L	11.7	10.8	13.2	yes
Arsenic	µg/L	11.0	10.80	13.20	yes
Barium	µg/L	61.7	54.00	66.00	yes
Beryllium	µg/L	5.68	5.40	6.60	yes
Bismuth	µg/L	29.6	27.0	33.0	yes
Boron	µg/L	118	108	132	yes
Cadmium	µg/L	0.60	0.51	0.69	yes
Calcium	mg/L	53.2	44.99	55.01	yes
Chromium	µg/L	29.4	27.0	33.0	yes
Cobalt	µg/L	5.6	5.4	6.6	yes
Copper	µg/L	58.9	54.0	66.0	yes
Lead	µg/L	5.8	5.4	6.6	yes
Lithium	µg/L	60.6	54.0	66.0	yes
Magnesium	mg/L	20.8	17.99	22.01	yes
Molybdenum	µg/L	59.8	54.00	66.00	yes
Nickel	µg/L	29.3	27.0	33.0	yes
Potassium	mg/L	52.0	45.0	55.0	yes
Selenium	µg/L	11.3	10.8	13.2	yes
Silicon	mg/L	2.24	-0.01	4.01	yes
Silver	µg/L	5.88	5.40	6.60	yes
Sodium	mg/L	53.5	45.0	55.0	yes
Strontium	µg/L	58.7	54.0	66.0	yes
Thallium	µg/L	2.81	2.70	3.30	yes
Thorium	µg/L	29.9	27.00	33.00	yes
Tin	µg/L	60.4	54.0	66.0	yes
Titanium	µg/L	30.1	27.0	33.0	yes
Uranium	µg/L	29.8	27.00	33.00	yes
Vanadium	µg/L	5.9	5.4	6.6	yes

**Quality Control**

Bill To: Laberge Environmental Services Project:  
 Report To: Laberge Environmental Services ID:  
 Box 21072 Name: Clinton Creek  
 1-405 Ogilvie Street Location: Clinton Creek  
 Whitehorse, YT, Canada LSD:  
 Y1A 6P7 P.O.:  
 Attn: Bonnie Burns Acct code:

Sampled By:  
 Company:

Lot ID: **898270**  
 Control Number:  
 Date Received: Oct 9, 2012  
 Date Reported: Dec 28, 2012  
 Report Number: 1795065

**Metals Total - Continued**

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Zinc	µg/L	57.4	54.0	66.0	yes
Zirconium	µg/L	55.4	54.0	66.0	yes
Date Acquired: October 11, 2012					
Aluminum	µg/L	957	900	1100	yes
Antimony	µg/L	39.9	36.0	44.0	yes
Arsenic	µg/L	38.2	36.01	43.99	yes
Barium	µg/L	202	179.99	220.01	yes
Beryllium	µg/L	19.5	17.99	22.01	yes
Bismuth	µg/L	98.9	90.0	110.0	yes
Boron	µg/L	362	360	440	yes
Cadmium	µg/L	1.98	1.80	2.20	yes
Calcium	mg/L	247	225.01	274.99	yes
Chromium	µg/L	94.7	90.0	110.0	yes
Cobalt	µg/L	18.0	18.0	22.0	yes
Copper	µg/L	193	180.0	220.0	yes
Iron	µg/L	3900	3600	4400	yes
Lead	µg/L	19.3	18.0	22.0	yes
Lithium	µg/L	192	180.0	220.0	yes
Magnesium	mg/L	99.4	90.01	109.99	yes
Manganese	µg/L	400	360.1	439.9	yes
Molybdenum	µg/L	204	179.99	220.01	yes
Nickel	µg/L	94.7	90.0	110.0	yes
Potassium	mg/L	251	225.0	275.0	yes
Selenium	µg/L	37.7	36.0	44.0	yes
Silicon	mg/L	10.2	9.01	10.99	yes
Silver	µg/L	18.9	17.99	22.01	yes
Sodium	mg/L	254	225.0	275.0	yes
Strontium	µg/L	191	180.0	220.0	yes
Thallium	µg/L	9.30	9.01	10.99	yes
Thorium	µg/L	99.0	90.01	109.99	yes
Tin	µg/L	204	180.0	220.0	yes
Titanium	µg/L	97.4	90.0	110.0	yes
Uranium	µg/L	97.3	90.01	109.99	yes
Vanadium	µg/L	19.1	18.0	22.0	yes
Zinc	µg/L	194	180.0	220.0	yes
Zirconium	µg/L	191	180.0	220.0	yes
Date Acquired: October 11, 2012					
Aluminum	µg/L	51	45	55	yes
Antimony	µg/L	2.0	1.8	2.2	yes
Arsenic	µg/L	1.92	1.80	2.20	yes
Barium	µg/L	10.3	9.01	10.99	yes
Beryllium	µg/L	1.02	0.90	1.10	yes

## Quality Control

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

## Metals Total - Continued

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Bismuth	µg/L	5.0	4.5	5.5	yes
Boron	µg/L	21	18	22	yes
Cadmium	µg/L	0.10	0.09	0.11	yes
Calcium	mg/L	5.28	4.50	5.50	yes
Chromium	µg/L	5.1	4.5	5.5	yes
Cobalt	µg/L	0.9	0.9	1.1	yes
Copper	µg/L	10.0	9.0	11.0	yes
Iron	µg/L	202	180	220	yes
Lead	µg/L	1.0	0.9	1.1	yes
Lithium	µg/L	10.3	9.0	11.0	yes
Magnesium	mg/L	2.07	1.80	2.20	yes
Manganese	µg/L	20.4	18.0	22.0	yes
Molybdenum	µg/L	10.1	9.01	10.99	yes
Nickel	µg/L	5.2	4.5	5.5	yes
Potassium	mg/L	5.2	4.5	5.5	yes
Selenium	µg/L	1.9	1.8	2.2	yes
Silicon	mg/L	0.21	0.18	0.22	yes
Silver	µg/L	1.04	0.90	1.10	yes
Sodium	mg/L	5.3	4.5	5.5	yes
Strontium	µg/L	9.9	9.0	11.0	yes
Thallium	µg/L	0.50	0.45	0.55	yes
Thorium	µg/L	4.88	4.50	5.50	yes
Tin	µg/L	10.0	9.0	11.0	yes
Titanium	µg/L	5.1	4.5	5.5	yes
Uranium	µg/L	4.89	4.50	5.50	yes
Vanadium	µg/L	1.0	0.9	1.1	yes
Zinc	µg/L	10.7	9.0	11.0	yes
Zirconium	µg/L	9.2	9.0	11.0	yes

Date Acquired: October 11, 2012

## Physical and Aggregate Properties

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Solids	mg/L	16	17	30	20	yes

Date Acquired: October 11, 2012

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Solids	mg/L	498	291	591	yes
Solids	mg/L	22	16	31	yes
Solids	mg/L	<2	-3	3	yes

Date Acquired: October 11, 2012

**Quality Control**

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

**Physical and Aggregate Properties -**

**Continued**

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
Date Acquired:	October 11, 2012				

**Routine Water**

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	0	-0.05	0.05	yes
Iron	mg/L	-0.0022	-0.006	0.004	yes
Magnesium	mg/L	0.0091	-0.05	0.07	yes
Manganese	mg/L	-0.0012	-0.007	0.001	yes
Phosphorus	mg/L	-0.0033	-0.04	0.04	yes
Potassium	mg/L	0.0233	-0.4	0.4	yes
Silicon	mg/L	0.0006	-0.20	0.25	yes
Sodium	mg/L	0.006	-0.2	0.2	yes
Date Acquired:	October 11, 2012				
Calcium	mg/L	-0.0017	-0.13	0.16	yes
Iron	mg/L	0.0034	-0.005	0.005	yes
Magnesium	mg/L	-0.0117	-0.07	0.08	yes
Manganese	mg/L	-0.0021	-0.009	0.002	yes
Phosphorus	mg/L	0.009	-0.14	0.16	yes
Potassium	mg/L	0.0269	-0.8	0.8	yes
Silicon	mg/L	-0.0058	-1.76	2.02	yes
Sodium	mg/L	0.0027	-0.3	0.4	yes
Date Acquired:	October 11, 2012				
Nitrate - N	mg/L	0	-0.03	0.03	yes
Nitrite - N	mg/L	0	-0.10	0.10	yes
Sulfate (SO4)	mg/L	0	-1.0	1.0	yes
Date Acquired:	October 10, 2012				

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Nitrate - N	mg/L	92.07	85	115	yes
Nitrite - N	mg/L	100.93	90	110	yes
Sulfate (SO4)	mg/L	94.36	85	115	yes
Date Acquired:	October 10, 2012				
Calcium	mg/L	107.21	91	109	yes
Iron	mg/L	103.80	91	109	yes
Magnesium	mg/L	102.10	91	109	yes
Manganese	mg/L	104.30	90	110	yes
Phosphorus	mg/L	100.98	90	110	yes
Potassium	mg/L	100.72	91	109	yes
Silicon	mg/L	101.64	80	120	yes
Sodium	mg/L	100.15	90	110	yes

**Quality Control**

Bill To: Laberge Environmental Services Project:  
 Report To: Laberge Environmental Services ID:  
 Box 21072 Name: Clinton Creek  
 1-405 Ogilvie Street Location: Clinton Creek  
 Whitehorse, YT, Canada LSD:  
 Y1A 6P7 P.O.:  
 Attn: Bonnie Burns Acct code:

Sampled By:  
 Company:

Lot ID: **898270**  
 Control Number:  
 Date Received: Oct 9, 2012  
 Date Reported: Dec 28, 2012  
 Report Number: 1795065

**Routine Water - Continued**

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Date Acquired:	October 11, 2012				
Nitrate - N	mg/L	99.89	88	108	yes
Nitrite - N	mg/L	105.63	99	119	yes
Sulfate (SO4)	mg/L	95.94	90	110	yes

Date Acquired: October 10, 2012

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
T-Alkalinity	mg/L	10	10	8	12	yes
Date Acquired:	October 09, 2012					
Calcium	mg/L	1.53	1.51	1.31	1.72	yes
Iron	mg/L	0.310	0.319	0.279	0.359	yes
Magnesium	mg/L	1.00	1.00	0.86	1.14	yes
Manganese	mg/L	0.376	0.374	0.340	0.408	yes
Potassium	mg/L	0.6	0.6	0.5	0.7	yes
Sodium	mg/L	0.8	0.9	0.8	1.0	yes

Date Acquired: October 11, 2012

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Calcium	mg/L	81.9	81.7	30	1.00	yes
Iron	mg/L	0.621	0.616	30	0.060	yes
Magnesium	mg/L	39.2	39.2	30	1.00	yes
Manganese	mg/L	0.536	0.536	30	0.015	yes
Phosphorus	mg/L	0.01	<0.01	30	0.10	yes
Potassium	mg/L	0.6	0.7	30	1.0	yes
Silicon	mg/L	4.50	4.48	30	0.15	yes
Sodium	mg/L	3.4	3.4	30	1.0	yes

Date Acquired: October 11, 2012

pH		6.46	6.44	2		yes
Electrical Conductivity	dS/m at 25 C	0.781	0.790	10	0.005	yes
Bicarbonate	mg/L	224	225	10	10	yes
Carbonate	mg/L	<6	<6	10	10	yes
Hydroxide	mg/L	<5	<5	10	10	yes
P-Alkalinity	mg/L	<5	<5	10	5	yes
T-Alkalinity	mg/L	184	184	10	5	yes
Nitrate - N	mg/L	2.62	2.70	15	0.05	yes
Nitrite - N	mg/L	<0.01	<0.01	15	0.50	yes
Sulfate (SO4)	mg/L	6.4	6.6	15	0.5	yes

Date Acquired: October 10, 2012

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Nitrate - N	mg/L	0.26	0.22	12	0.05	yes
Nitrite - N	mg/L	0.27	0.27	6	0.01	yes

## Quality Control

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

## Routine Water - Continued

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Sulfate (SO4)	mg/L	3.7	3.7	6	0.0	yes
Date Acquired: October 10, 2012						

Control Sample	Units	Measured	Lower Limit	Upper Limit	Passed QC
pH		10.1	9.17	10.81	yes
Electrical Conductivity	µS/cm at 25 C	192	165	243	yes
P-Alkalinity	mg/L	36	7	55	yes
T-Alkalinity	mg/L	92	90	101	yes
Date Acquired: October 09, 2012					
pH		4.00	3.88	4.12	yes
Date Acquired: October 09, 2012					
pH		7.94	7.88	8.12	yes
Date Acquired: October 09, 2012					
Electrical Conductivity	µS/cm at 25 C	18	0	2	yes
Date Acquired: October 09, 2012					
Electrical Conductivity	µS/cm at 25 C	1360	1323	1503	yes
Date Acquired: October 09, 2012					
Electrical Conductivity	µS/cm at 25 C	<1	-2	2	yes
Date Acquired: October 09, 2012					

## Trace Metals Dissolved

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Aluminum	µg/L	0	-10	10	yes
Antimony	µg/L	0	-0.4	0.2	yes
Arsenic	µg/L	0	-0.5	0.5	yes
Barium	µg/L	0	-0	0	yes
Beryllium	µg/L	0	-0.10	0.10	yes
Bismuth	µg/L	0	-1.0	1.0	yes
Boron	µg/L	0	-6	5	yes
Cadmium	µg/L	0	-0.03	0.03	yes
Chromium	µg/L	0	-0.1	0.2	yes
Cobalt	µg/L	0	-0.07	0.07	yes
Copper	µg/L	0	-1	1	yes
Lead	µg/L	0	-0.1	0.1	yes
Lithium	µg/L	0	-1	1	yes
Molybdenum	µg/L	0	-0.31	0.29	yes
Nickel	µg/L	0	-1	1	yes
Selenium	µg/L	0	-1.7	1.3	yes
Silver	µg/L	0	-0.05	0.05	yes
Strontium	µg/L	0	-0	0	yes
Tellurium	µg/L	0	-0.7	0.7	yes



## Quality Control

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

## Trace Metals Dissolved - Continued

Blanks	Units	Measured	Lower Limit	Upper Limit	Passed QC
Thallium	µg/L	0	-0.03	0.03	yes
Thorium	µg/L	0	-1.5	1.5	yes
Tin	µg/L	0	-3.0	3.0	yes
Titanium	µg/L	0	-0.2	0.2	yes
Uranium	µg/L	0	-0.03	0.03	yes
Vanadium	µg/L	0	-0.35	0.35	yes
Zinc	µg/L	9.205	-2	4	yes
Zirconium	µg/L	0	-0.1	0.1	yes
Date Acquired: October 11, 2012					
Aluminum	µg/L	0.671	-6	6	yes
Antimony	µg/L	-0.023	-0.4	0.3	yes
Arsenic	µg/L	-0.013	-0.4	0.3	yes
Barium	µg/L	-0.006	-0	1	yes
Beryllium	µg/L	-0.001	-0.10	0.10	yes
Bismuth	µg/L	0.394	0.0	0.0	yes
Boron	µg/L	-1.589	-18	19	yes
Cadmium	µg/L	-0.004	-0.03	0.03	yes
Chromium	µg/L	0.032	-0.1	0.2	yes
Cobalt	µg/L	0.03	-0.30	0.30	yes
Copper	µg/L	-0.077	-1	1	yes
Lead	µg/L	-0.012	-0.3	0.4	yes
Lithium	µg/L	0.043	-0	0	yes
Molybdenum	µg/L	0.021	-0.95	0.85	yes
Nickel	µg/L	0.005	-1	1	yes
Selenium	µg/L	-1.283	-1.7	1.7	yes
Silver	µg/L	0.015	-0.67	0.47	yes
Strontium	µg/L	0.041	-2	4	yes
Tellurium	µg/L	-0.174	-0.7	0.7	yes
Thallium	µg/L	-0.004	-0.06	0.06	yes
Thorium	µg/L	-0.218	-0.7	0.5	yes
Tin	µg/L	0.072	-3.8	4.0	yes
Titanium	µg/L	0.037	-0.3	0.2	yes
Uranium	µg/L	0.019	-0.04	0.02	yes
Vanadium	µg/L	-0.093	-0.30	0.30	yes
Zinc	µg/L	9.534	-11	19	yes
Zirconium	µg/L	0.073	-0.0	0.0	yes
Date Acquired: October 11, 2012					

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Aluminum	µg/L	98.20	70	130	yes
Antimony	µg/L	100.04	85	115	yes
Arsenic	µg/L	103.52	90	110	yes
Barium	µg/L	95.60	90	110	yes

## Quality Control

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
Whitehorse, YT, Canada	LSD:	Report Number: 1795065
Y1A 6P7	P.O.:	
Attn: Bonnie Burns	Acct code:	
Sampled By:		
Company:		

## Trace Metals Dissolved - Continued

Calibration Check	Units	% Recovery	Lower Limit	Upper Limit	Passed QC
Beryllium	µg/L	99.80	90	110	yes
Bismuth	µg/L	99.52	90	110	yes
Boron	µg/L	100.80	70	130	yes
Cadmium	µg/L	106.12	90	110	yes
Chromium	µg/L	99.60	90	110	yes
Cobalt	µg/L	101.30	90	110	yes
Copper	µg/L	105.66	90	110	yes
Lead	µg/L	104.28	90	110	yes
Lithium	µg/L	105.04	90	110	yes
Molybdenum	µg/L	99.36	90	110	yes
Nickel	µg/L	99.84	90	110	yes
Selenium	µg/L	102.68	90	110	yes
Silver	µg/L	0.09	0	0	yes
Strontium	µg/L	102.44	90	110	yes
Thallium	µg/L	101.60	90	110	yes
Tin	µg/L	104.80	90	110	yes
Titanium	µg/L	94.92	90	110	yes
Uranium	µg/L	102.24	85	115	yes
Vanadium	µg/L	98.96	90	110	yes
Zinc	µg/L	98.94	90	110	yes
Zirconium	µg/L	108.52	90	110	yes

Date Acquired: October 11, 2012

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Aluminum	µg/L	20	20	20	20	yes
Antimony	µg/L	0.4	0.9	20	1.0	yes
Arsenic	µg/L	0.9	1.0	20	1.0	yes
Barium	µg/L	54	54	20	5	yes
Beryllium	µg/L	<0.04	<0.04	20	1.00	yes
Boron	µg/L	8	10	20	5	yes
Cadmium	µg/L	0.08	0.07	20	0.50	yes
Chromium	µg/L	1.4	1.3	20	5.0	yes
Cobalt	µg/L	1.04	1.04	20	0.50	yes
Copper	µg/L	2	2	20	5	yes
Lead	µg/L	<0.1	<0.1	20	0.5	yes
Lithium	µg/L	4	4	20	5	yes
Molybdenum	µg/L	1.57	1.64	20	0.50	yes
Nickel	µg/L	8	7	20	5	yes
Selenium	µg/L	1.0	<0.6	20	0.5	yes
Silver	µg/L	<0.01	<0.01	20	0.50	yes
Strontium	µg/L	377	372	20	0	yes
Tellurium	µg/L	<0.1	<0.1	20	0.5	yes
Thallium	µg/L	<0.01	0.02	20	0.10	yes

## Quality Control

Bill To:	Laberge Environmental Services	Project:		Lot ID:	<b>898270</b>
Report To:	Laberge Environmental Services	ID:		Control Number:	
	Box 21072	Name:	Clinton Creek	Date Received:	Oct 9, 2012
	1-405 Ogilvie Street	Location:	Clinton Creek	Date Reported:	Dec 28, 2012
	Whitehorse, YT, Canada	LSD:		Report Number:	1795065
	Y1A 6P7	P.O.:			
Attn:	Bonnie Burns	Acct code:			
Sampled By:					
Company:					

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## Trace Metals Dissolved - Continued

Replicates	Units	Replicate 1	Replicate 2	% RSD Criteria	Absolute Criteria	Passed QC
Thorium	µg/L	<0.4	<0.4	10	0.1	yes
Tin	µg/L	<0.1	0.1	20	0.5	yes
Titanium	µg/L	2.7	2.6	20	0.5	yes
Uranium	µg/L	1.95	2.04	20	0.10	yes
Vanadium	µg/L	0.50	0.51	20	0.50	yes
Zinc	µg/L	3	3	20	5	yes
Zirconium	µg/L	0.9	1.0	20	0.5	yes
Date Acquired: October 11, 2012						

## Methodology and Notes

Bill To: Laberge Environmental Services	Project:	Lot ID: <b>898270</b>
Report To: Laberge Environmental Services	ID:	Control Number:
Box 21072	Name: Clinton Creek	Date Received: Oct 9, 2012
1-405 Ogilvie Street	Location: Clinton Creek	Date Reported: Dec 28, 2012
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Sampled By:		
Company:		

## Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (Surrey)	APHA	* Alkalinity - Titration Method, 2320 B	09-Oct-12	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* Conductivity, 2510 B	09-Oct-12	Exova Surrey
Alk, pH, EC, Turb in water (Surrey)	APHA	* pH - Electrometric Method, 4500-H+ B	09-Oct-12	Exova Surrey
Ammonia-N in Water (Surrey)	APHA	* Flow Injection Analysis, 4500-NH3 H	10-Oct-12	Exova Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	10-Oct-12	Exova Surrey
BC ICP-MS Total Metals in Water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	11-Oct-12	Exova Edmonton
BC ICP-MS Total Metals in Water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	27-Dec-12	Exova Edmonton
BC Trace Total Metals in Water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	11-Oct-12	Exova Edmonton
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	10-Oct-12	Exova Edmonton
Metals SemiTrace (Dissolved) in water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	11-Oct-12	Exova Surrey
Phosphorus - total (low level) - Surrey	APHA	* Preliminary Acid Hydrolysis, Ascorbic Acid Reduction Method, 4500-P B,E	10-Oct-12	Exova Surrey
Phosphorus - total reactive P (orthophosphate) - Surrey	APHA	Ascorbic Acid Reduction Method, 4500 -P E	10-Oct-12	Exova Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105°C, 2540 D	11-Oct-12	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	11-Oct-12	Exova Surrey
Trace Metals (dissolved) in Water (Surrey)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	11-Oct-12	Exova Surrey

\* Reference Method Modified

## References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

## Comments:

- Report was re-issued to correct the titanium result on all samples previously reported on Test Report 1772978. Report 1795065 replaces report 1772978.
- Upon receipt, samples had exceeded recommended holding time for nitrate and nitrite analysis.

## Methodology and Notes

Bill To:	Laberge Environmental Services	Project:		Lot ID:	<b>898270</b>
Report To:	Laberge Environmental Services	ID:		Control Number:	
	Box 21072	Name:	Clinton Creek	Date Received:	Oct 9, 2012
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	Y1A 6P7	P.O.:			
Attn:	Bonnie Burns	Acct code:			
Sampled By:					
Company:					

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Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

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