

ENVIRONMENTAL IMPACT STATEMENT

MINAGO PROJECT

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LABORATORY CERTIFIED REPORTS

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Certified Laboratory Reports for Surface Water Quality

May 2007 Results



Environmental Division

ANALYTICAL REPORT

URS CANADA INC.

ATTN: KEITH MOUNTJOY

Reported On: 07-JUN-07 06:45 PM

P.O. BOX 11507
1900 - 650 WEST GEORGIA STREET
VANCOUVER BC V6B 4N7

Lab Work Order #: L507178

Date Received: 17-MAY-07

Project P.O. #: MINAGO
Job Reference: 39548827
Legal Site Desc:
CofC Numbers: A005312

Other Information:

Comments:

TIMOTHY GUY CROWTHER
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Jerry Holzbecher

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS Canada Ltd.
Part of the **ALS Laboratory Group**

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A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L507178-1	L507178-2	L507178-3	L507178-4	L507178-5
		Description					
		Sampled Date	15-MAY-07	16-MAY-07	15-MAY-07	16-MAY-07	15-MAY-07
		Sampled Time					
		Client ID	MRW1	MRW2	MRW3	HRW1	OCW1
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO ₃) (mg/L)		107	184	106	74.5	158
	Conductivity (uS/cm)		184	306	188	129	253
	pH (pH)		7.84	8.12	7.95	7.90	8.01
	Total Dissolved Solids (mg/L)		126	192	123	111	159
	Total Suspended Solids (mg/L)		<3.0	6.7	5.7	33.2	<3.0
	Turbidity (NTU)		2.87	5.36	3.90	28.9	1.51
Anions and Nutrients	Ammonia as N (mg/L)		0.031	0.030	<0.020	0.025	0.022
	Acidity (as CaCO ₃) (mg/L)		2.9	2.1	2.5	2.1	2.7
	Alkalinity, Total (as CaCO ₃) (mg/L)		92.8	157	96.5	66.2	134
	Bromide (Br) (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Chloride (Cl) (mg/L)		0.57	1.19	0.71	<0.50	<0.50
	Fluoride (F) (mg/L)		0.055	0.077	0.056	0.050	0.067
	Sulfate (SO ₄) (mg/L)		0.73	1.50	0.60	<0.50	0.84
	Nitrate (as N) (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Nitrite (as N) (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Total Kjeldahl Nitrogen (mg/L)		0.507	0.409	0.520	0.492	0.363
	Total Nitrogen (mg/L)		0.507	0.409	0.520	0.492	0.363
Cyanides	Cyanide, Total (mg/L)		0.0104	0.0094	0.0118	0.0140	0.0117
Total Metals	Aluminum (Al)-Total (mg/L)		0.104	0.135	0.0214	0.891	0.0288
	Antimony (Sb)-Total (mg/L)		0.00054	<0.00010	0.00039	<0.00010	0.00082
	Arsenic (As)-Total (mg/L)		0.00063	0.00049	0.00072	0.00079	0.00038
	Barium (Ba)-Total (mg/L)		0.0109	0.0221	0.0130	0.0147	0.0180
	Beryllium (Be)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bismuth (Bi)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)		0.010	0.013	0.012	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)		0.000333	<0.000050	0.00118	<0.000050	<0.000050
	Calcium (Ca)-Total (mg/L)		23.8	41.8	24.1	19.9	34.7
	Chromium (Cr)-Total (mg/L)		<0.00050	<0.00050	0.00082	0.00167	<0.00050
	Cobalt (Co)-Total (mg/L)		<0.00010	0.00011	<0.00010	0.00045	<0.00010
	Copper (Cu)-Total (mg/L)		0.00068	0.00046	0.00063	0.00136	0.00026
	Iron (Fe)-Total (mg/L)		0.169	0.213	0.052	0.945	0.066
	Lead (Pb)-Total (mg/L)		0.000138	0.000100	0.000160	0.000460	0.000078
	Lithium (Li)-Total (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Total (mg/L)		11.8	19.5	11.7	8.08	16.9
	Manganese (Mn)-Total (mg/L)		0.00967	0.0175	0.000842	0.0427	0.00914
	Mercury (Hg)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Total (mg/L)		0.000081	0.000123	0.000095	0.000070	0.000086
	Nickel (Ni)-Total (mg/L)		<0.00050	<0.00050	0.00053	0.00133	<0.00050
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L507178-6 16-MAY-07 OCW2	L507178-7 16-MAY-07 OCW3	L507178-8 16-MAY-07 WRW1=WRW2x	L507178-9 16-MAY-07 WRW2=WRW1x
Grouping	Analyte				
WATER					
Physical Tests	Hardness (as CaCO ₃) (mg/L)	179	163	167	132
	Conductivity (uS/cm)	290	259	282	218
	pH (pH)	8.01	7.97	8.18	8.07
	Total Dissolved Solids (mg/L)	177	164	170	144
	Total Suspended Solids (mg/L)	<3.0	<3.0	30.2	32.7
	Turbidity (NTU)	0.56	1.01	22.6	26.3
Anions and Nutrients	Ammonia as N (mg/L)	0.021	0.043	0.031	0.028
	Acidity (as CaCO ₃) (mg/L)	3.0	3.1	1.4	2.0
	Alkalinity, Total (as CaCO ₃) (mg/L)	152	139	151	113
	Bromide (Br) (mg/L)	<0.050	<0.050	<0.050	<0.050
	Chloride (Cl) (mg/L)	<0.50	<0.50	1.06	0.83
	Fluoride (F) (mg/L)	0.076	0.067	0.083	0.068
	Sulfate (SO ₄) (mg/L)	1.38	<0.50	2.09	1.23
	Nitrate (as N) (mg/L)	<0.0050	<0.0050	<0.0050	0.0053
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010
	Total Kjeldahl Nitrogen (mg/L)	0.316	0.354	0.412	0.507
	Total Nitrogen (mg/L)	0.316	0.354	0.412	0.512
Cyanides	Cyanide, Total (mg/L)	0.0093	0.0106	0.0096	0.0120
Total Metals	Aluminum (Al)-Total (mg/L)	0.0045	0.0070	0.732	0.813
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	0.00044	0.00043
	Arsenic (As)-Total (mg/L)	0.00027	0.00028	0.00065	0.00070
	Barium (Ba)-Total (mg/L)	0.0210	0.0166	0.0272	0.0232
	Beryllium (Be)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.010	<0.010	0.012	0.010
	Cadmium (Cd)-Total (mg/L)	<0.000050	<0.000050	0.000060	0.000364
	Calcium (Ca)-Total (mg/L)	40.6	36.6	26.4	23.6
	Chromium (Cr)-Total (mg/L)	<0.00050	<0.00050	0.00149	0.00167
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	0.00041	0.00045
	Copper (Cu)-Total (mg/L)	<0.00010	<0.00010	0.00105	0.00131
	Iron (Fe)-Total (mg/L)	0.035	0.055	0.748	0.895
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050	0.000437	0.000509
	Lithium (Li)-Total (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Total (mg/L)	19.4	17.0	23.6	17.6
	Manganese (Mn)-Total (mg/L)	0.00273	0.00286	0.0220	0.0302
	Mercury (Hg)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Total (mg/L)	0.000092	0.000062	0.000124	0.000091
	Nickel (Ni)-Total (mg/L)	<0.00050	<0.00050	0.00124	0.00135
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	<0.30

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L507178-1	L507178-2	L507178-3	L507178-4	L507178-5
		Description					
		Sampled Date	15-MAY-07	16-MAY-07	15-MAY-07	16-MAY-07	15-MAY-07
		Sampled Time					
		Client ID	MRW1	MRW2	MRW3	HRW1	OCW1
Grouping	Analyte						
WATER							
Total Metals	Potassium (K)-Total (mg/L)		<2.0	<2.0	<2.0	<2.0	<2.0
	Selenium (Se)-Total (mg/L)		<0.00050	<0.00050	<0.00050	0.00072	<0.00050
			<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Silicon (Si)-Total (mg/L)		3.52	3.67	3.36	4.16	3.08
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		2.8	3.1	2.8	<2.0	<2.0
	Strontium (Sr)-Total (mg/L)		0.0337	0.0466	0.0378	0.0305	0.0321
	Thallium (Tl)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	0.00012	<0.00010
	Titanium (Ti)-Total (mg/L)		<0.010	<0.010	<0.010	0.040	<0.010
	Uranium (U)-Total (mg/L)		0.000084	0.000181	0.000081	0.000096	0.000113
	Vanadium (V)-Total (mg/L)		<0.0010	<0.0010	<0.0010	0.0021	<0.0010
	Zinc (Zn)-Total (mg/L)		0.0015	0.0011	0.0018	0.0055	0.0010
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		0.0957	0.0119	0.0339	0.0462	0.0089
	Antimony (Sb)-Dissolved (mg/L)		0.00062	<0.00010	0.00050	<0.00010	0.00057
	Arsenic (As)-Dissolved (mg/L)		0.00065	0.00048	0.00064	0.00064	0.00036
	Barium (Ba)-Dissolved (mg/L)		0.0151	0.0211	0.0101	0.00725	0.0177
	Beryllium (Be)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bismuth (Bi)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)		0.010	0.014	0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)		0.00218	<0.000050	0.000351	0.000053	0.000088
	Calcium (Ca)-Dissolved (mg/L)		23.6	41.5	23.7	18.0	35.2
	Chromium (Cr)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)		0.00013	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)		0.00088	0.00043	0.00096	0.00082	0.00106
	Iron (Fe)-Dissolved (mg/L)		0.152	0.055	0.111	0.103	0.039
	Lead (Pb)-Dissolved (mg/L)		0.000190	<0.000050	0.000148	0.000113	0.000112
	Lithium (Li)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Dissolved (mg/L)		11.7	19.5	11.5	7.17	17.0
	Manganese (Mn)-Dissolved (mg/L)		0.00916	0.0118	0.0135	0.0146	0.00824
	Mercury (Hg)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)		0.000310	0.000145	0.000134	0.000057	0.000131
	Nickel (Ni)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	0.00056	0.00063
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		<2.0	<2.0	<2.0	<2.0	<2.0
	Selenium (Se)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	0.00050
			<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Silicon (Si)-Dissolved (mg/L)		3.47	3.44	3.26	2.52	3.12
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID Description	L507178-6	L507178-7	L507178-8	L507178-9
		Sampled Date	16-MAY-07	16-MAY-07	16-MAY-07	16-MAY-07
		Sampled Time				
		Client ID	OCW2	OCW3	WRW1=WRW2x	WRW2=WRW1x
Grouping	Analyte					
WATER						
Total Metals	Potassium (K)-Total (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Selenium (Se)-Total (mg/L)	0.00052	<0.00050	0.00081	0.00135	0.00135
		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Silicon (Si)-Total (mg/L)	3.03	3.29	3.95	4.41	4.41
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Strontium (Sr)-Total (mg/L)	0.0351	0.0309	0.0310	0.0305	0.0305
	Thallium (Tl)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	0.035	0.040	0.040
	Uranium (U)-Total (mg/L)	0.000186	0.000037	0.000245	0.000175	0.000175
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	0.0017	0.0018	0.0018
	Zinc (Zn)-Total (mg/L)	<0.0010	<0.0010	0.0036	0.0060	0.0060
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0024	0.0026	0.229	0.306	0.306
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	0.00042	0.00035	0.00035
	Arsenic (As)-Dissolved (mg/L)	0.00028	0.00027	0.00060	0.00060	0.00060
	Barium (Ba)-Dissolved (mg/L)	0.0210	0.0163	0.0227	0.0185	0.0185
	Beryllium (Be)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	0.012	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Calcium (Ca)-Dissolved (mg/L)	40.2	37.0	26.7	23.5	23.5
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	0.00066	0.00077	0.00077
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	0.00021	0.00030	0.00030
	Copper (Cu)-Dissolved (mg/L)	0.00022	0.00012	0.00068	0.00093	0.00093
	Iron (Fe)-Dissolved (mg/L)	<0.030	<0.030	0.273	0.395	0.395
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	0.000210	0.000303	0.000303
	Lithium (Li)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Dissolved (mg/L)	19.2	17.3	24.4	17.7	17.7
	Manganese (Mn)-Dissolved (mg/L)	0.00300	0.00166	0.0122	0.0207	0.0207
	Mercury (Hg)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.000102	0.000059	0.000088	0.000060	0.000060
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	<0.00050	0.00061	0.00085	0.00085
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Selenium (Se)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Silicon (Si)-Dissolved (mg/L)	3.01	3.28	3.01	3.27	3.27
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L507178-1	L507178-2	L507178-3	L507178-4	L507178-5
		Description					
		Sampled Date	15-MAY-07	16-MAY-07	15-MAY-07	16-MAY-07	15-MAY-07
		Sampled Time					
		Client ID	MRW1	MRW2	MRW3	HRW1	OCW1
Grouping	Analyte						
WATER							
Dissolved Metals	Sodium (Na)-Dissolved (mg/L)		2.7	3.1	2.8	<2.0	<2.0
	Strontium (Sr)-Dissolved (mg/L)		0.0338	0.0476	0.0359	0.0270	0.0322
	Thallium (Tl)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Dissolved (mg/L)		0.00020	<0.00010	0.00039	0.00014	0.00041
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.000088	0.000184	0.000079	0.000064	0.000111
	Vanadium (V)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)		0.0032	<0.0010	0.0024	0.0018	0.0031
Radiological Parameters	Radium-226 (Bq/L)		<0.005	<0.005	<0.005	<0.005	<0.005

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L507178-6	L507178-7	L507178-8	L507178-9
		Description				
		Sampled Date	16-MAY-07	16-MAY-07	16-MAY-07	16-MAY-07
		Sampled Time				
		Client ID	OCW2	OCW3	WRW1=WRW2x	WRW2=WRW1x
Grouping	Analyte					
WATER						
Dissolved Metals	Sodium (Na)-Dissolved (mg/L)	<2.0	<2.0	<2.0	<2.0	
	Strontium (Sr)-Dissolved (mg/L)	0.0361	0.0304	0.0285	0.0281	
	Thallium (Tl)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	
	Tin (Sn)-Dissolved (mg/L)	<0.00010	0.00011	0.00011	0.00024	
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	0.012	0.016	
	Uranium (U)-Dissolved (mg/L)	0.000184	0.000034	0.000220	0.000154	
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	
	Zinc (Zn)-Dissolved (mg/L)	0.0012	<0.0010	0.0020	0.0027	
Radiological Parameters	Radium-226 (Bq/L)	<0.005	<0.005	<0.005	<0.005	

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automated Titration	APHA 2310 "Acidity"
<p>This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.</p>			
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
<p>This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.</p>			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC
<p>This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.</p>			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
<p>This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.</p>			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
<p>This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.</p>			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC
<p>This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.</p>			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
<p>This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.</p>			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
<p>This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.</p>			
CN-T-MID-HH-COL-VA	Water	Total Cyanide by HH Distillation	APHA 4500-CN "Cyanide"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.</p>			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
<p>This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.</p>			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
<p>Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.</p>			
HG-DIS-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS	EPA SW-846 3005A & EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
HG-TOT-CVAFS-VA	Water	Total Mercury in Water by CVAFS	EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
<p>This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p>			
RADIO-RADIUM226-SR	Water	Radium 226	CANMET 1986
SE-DIS-HVAAS-VA	Water	Dissolved Selenium in Water by HVAAS	EPA 3005A/7000 SERIES
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption spectrophotometry (EPA Method 7000 series).</p>			
SE-TOT-HVAAS-VA	Water	Total Selenium in Water by HVAAS	EPA 3005A/7000 SERIES
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption spectrophotometry (EPA Method 7000 series).</p>			
TDS-VA	Water	Total Dissolved Solids by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
TKN-COL-VA	Water	Total Kjeldahl Nitrogen by Auto. Colour	APHA 4500-Norg (TKN)
This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.			
TN-CALC-VA	Water	TN by Calc (TKN + N+N)	BC MOE LABORATORY MANUAL (2005)
Total Nitrogen is determined by calculation by suming TKN and the NO2 and NO3 results.			
TSS-VA	Water	Solids by Gravimetric	APHA 2540 Gravimetric
This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.			
TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
SR	Saskatchewan Research Council - Saskatoon, Saskatchewan, Can	VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in enviromental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Environmental Division

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Client: URS CANADA INC.
P.O. BOX 11507 1900 - 650 WEST GEORGIA STREET
VANCOUVER BC V6B 4N7

Contact: KEITH MOUNTJOY

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-PCT-VA	Water							
Batch R526459								
WG599380-3 CRM		VA-ACY-CONTROL						
Acidity (as CaCO3)			102		%		85-115	24-MAY-07
WG599380-4 DUP		L507178-9						
Acidity (as CaCO3)		2.0	2.0	J	mg/L	0.0	4	24-MAY-07
ALK-COL-VA	Water							
Batch R526534								
WG599900-7 DUP		L507178-6						
Alkalinity, Total (as CaCO3)		152	148		mg/L	2.7	20	24-MAY-07
WG599900-1 MB								
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	24-MAY-07
ANIONS-BR-IC-VA	Water							
Batch R526333								
WG599372-2 CRM		VA-ALLT-170088						
Bromide (Br)			99		%		90-110	24-MAY-07
WG599372-1 MB								
Bromide (Br)			<0.050		mg/L		0.05	24-MAY-07
ANIONS-CL-IC-VA	Water							
Batch R526333								
WG599372-2 CRM		VA-ALLT-170088						
Chloride (Cl)			101		%		94-106	24-MAY-07
WG599372-1 MB								
Chloride (Cl)			<0.50		mg/L		0.5	24-MAY-07
ANIONS-F-IC-VA	Water							
Batch R526333								
WG599372-2 CRM		VA-ALLT-170088						
Fluoride (F)			101		%		93-107	24-MAY-07
WG599372-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	24-MAY-07
ANIONS-NO2-IC-VA	Water							
Batch R526333								
WG599372-2 CRM		VA-ALLT-170088						
Nitrite (as N)			102		%		91-109	24-MAY-07
WG599372-1 MB								
Nitrite (as N)			<0.0010		mg/L		0.001	24-MAY-07
ANIONS-NO3-IC-VA	Water							

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ANIONS-NO3-IC-VA								
Batch R526333								
WG599372-2	CRM	VA-ALLT-170088						
Nitrate (as N)			98		%		91-109	24-MAY-07
WG599372-1	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	24-MAY-07
ANIONS-SO4-IC-VA								
Batch R526333								
WG599372-2	CRM	VA-ALLT-170088						
Sulfate (SO4)			102		%		93-107	24-MAY-07
WG599372-1	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	24-MAY-07
CN-T-MID-HH-COL-VA								
Batch R527423								
WG600941-1	MB							
Cyanide, Total			<0.0050		mg/L		0.005	27-MAY-07
EC-PCT-VA								
Batch R526459								
WG599380-4	DUP	L507178-9						
Conductivity		218	220		uS/cm	0.91	20	24-MAY-07
WG599380-1	MB							
Conductivity			<2.0		uS/cm		2	24-MAY-07
HG-DIS-CVAFS-VA								
Batch R527895								
WG601632-2	CRM	VA-HG-WATRM						
Mercury (Hg)-Dissolved			90		%		88-112	28-MAY-07
WG599753-7	DUP	L507178-6						
Mercury (Hg)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	28-MAY-07
WG601632-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	28-MAY-07
HG-TOT-CVAFS-VA								
Batch R527895								
WG601632-2	CRM	VA-HG-WATRM						
Mercury (Hg)-Total			90		%		88-112	28-MAY-07
WG601632-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	28-MAY-07
MET-DIS-ICP-VA								
Batch R527895								

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-ICP-VA								
	Water							
Batch	R527661							
WG599753-7	DUP	L507178-6						
Calcium (Ca)-Dissolved		40.2	39.8		mg/L	0.90	20	28-MAY-07
Iron (Fe)-Dissolved		<0.030	<0.030	RPD-NA	mg/L	N/A	20	28-MAY-07
Magnesium (Mg)-Dissolved		19.2	18.9		mg/L	1.2	20	28-MAY-07
Phosphorus (P)-Dissolved		<0.30	<0.30	RPD-NA	mg/L	N/A	20	28-MAY-07
Potassium (K)-Dissolved		<2.0	<2.0	RPD-NA	mg/L	N/A	20	28-MAY-07
Silicon (Si)-Dissolved		3.01	2.98		mg/L	1.2	20	28-MAY-07
Sodium (Na)-Dissolved		<2.0	<2.0	RPD-NA	mg/L	N/A	20	28-MAY-07
Titanium (Ti)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	28-MAY-07
Batch	R529333							
WG599753-10	CRM	VA-HIGH-WATRM						
Calcium (Ca)-Dissolved			110		%		85-115	31-MAY-07
Iron (Fe)-Dissolved			101		%		90-110	31-MAY-07
Magnesium (Mg)-Dissolved			103		%		85-115	31-MAY-07
Phosphorus (P)-Dissolved			105		%		90-110	31-MAY-07
Potassium (K)-Dissolved			100		%		85-115	31-MAY-07
Silicon (Si)-Dissolved			102		%		90-110	31-MAY-07
Sodium (Na)-Dissolved			103		%		85-115	31-MAY-07
Titanium (Ti)-Dissolved			100		%		90-110	31-MAY-07
WG599753-1	MB							
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	31-MAY-07
Iron (Fe)-Dissolved			<0.030		mg/L		0.03	31-MAY-07
Magnesium (Mg)-Dissolved			<0.10		mg/L		0.1	31-MAY-07
Phosphorus (P)-Dissolved			<0.30		mg/L		0.3	31-MAY-07
Potassium (K)-Dissolved			<2.0		mg/L		2	31-MAY-07
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	31-MAY-07
Sodium (Na)-Dissolved			<2.0		mg/L		2	31-MAY-07
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	31-MAY-07
MET-DIS-LOW-MS-VA								
	Water							
Batch	R527110							
WG599753-1	MB							
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	25-MAY-07
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	25-MAY-07
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	25-MAY-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-MS-VA								
	Water							
Batch	R527110							
WG599753-1	MB							
Beryllium (Be)-Dissolved			<0.00050		mg/L		0.0005	25-MAY-07
Bismuth (Bi)-Dissolved			<0.00050		mg/L		0.0005	25-MAY-07
Boron (B)-Dissolved			<0.010		mg/L		0.01	25-MAY-07
Cadmium (Cd)-Dissolved			<0.000050		mg/L		0.00005	25-MAY-07
Chromium (Cr)-Dissolved			<0.00050		mg/L		0.0005	25-MAY-07
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	25-MAY-07
Copper (Cu)-Dissolved			<0.00010		mg/L		0.0001	25-MAY-07
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	25-MAY-07
Lithium (Li)-Dissolved			<0.0050		mg/L		0.005	25-MAY-07
Manganese (Mn)-Dissolved			<0.000050		mg/L		0.00005	25-MAY-07
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	25-MAY-07
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	25-MAY-07
Selenium (Se)-Dissolved			<0.0010		mg/L		0.001	25-MAY-07
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	25-MAY-07
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	25-MAY-07
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	25-MAY-07
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	25-MAY-07
Vanadium (V)-Dissolved			<0.0010		mg/L		0.001	25-MAY-07
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	25-MAY-07
Batch	R527618							
WG599753-1	MB							
Barium (Ba)-Dissolved			<0.00070		mg/L		0.0007	28-MAY-07
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	28-MAY-07
Batch	R527728							
WG599753-7	DUP	L507178-6						
Aluminum (Al)-Dissolved		0.0024	0.0022	J	mg/L	0.0002	0.004	28-MAY-07
Antimony (Sb)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	28-MAY-07
Arsenic (As)-Dissolved		0.00028	0.00029	J	mg/L	0.00001	0.0004	28-MAY-07
Barium (Ba)-Dissolved		0.0210	0.0211		mg/L	0.28	20	28-MAY-07
Beryllium (Be)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	28-MAY-07
Bismuth (Bi)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	28-MAY-07
Boron (B)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	28-MAY-07
Cadmium (Cd)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	28-MAY-07

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MET-DIS-LOW-MS-VA								
	Water							
Batch	R527728							
WG599753-7	DUP	L507178-6						
Chromium (Cr)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	28-MAY-07
Cobalt (Co)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	28-MAY-07
Copper (Cu)-Dissolved		0.00022	0.00018	J	mg/L	0.00003	0.0004	28-MAY-07
Lead (Pb)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	28-MAY-07
Lithium (Li)-Dissolved		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	28-MAY-07
Manganese (Mn)-Dissolved		0.00300	0.00257		mg/L	15	20	28-MAY-07
Molybdenum (Mo)-Dissolved		0.000102	0.000100	J	mg/L	0.000002	0.0002	28-MAY-07
Nickel (Ni)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	28-MAY-07
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	28-MAY-07
Silver (Ag)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	28-MAY-07
Strontium (Sr)-Dissolved		0.0361	0.0363		mg/L	0.65	20	28-MAY-07
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	28-MAY-07
Tin (Sn)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	28-MAY-07
Uranium (U)-Dissolved		0.000184	0.000185		mg/L	0.62	20	28-MAY-07
Vanadium (V)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	28-MAY-07
Zinc (Zn)-Dissolved		0.0012	0.0011	J	mg/L	0.0001	0.004	28-MAY-07
Batch	R527836							
WG599753-10	CRM	VA-HIGH-WATRM						
Antimony (Sb)-Dissolved			103		%		90-110	28-MAY-07
Arsenic (As)-Dissolved			103		%		90-110	28-MAY-07
Barium (Ba)-Dissolved			106		%		90-110	28-MAY-07
Beryllium (Be)-Dissolved			103		%		90-110	28-MAY-07
Bismuth (Bi)-Dissolved			98		%		90-110	28-MAY-07
Boron (B)-Dissolved			108		%		85-115	28-MAY-07
Cadmium (Cd)-Dissolved			102		%		90-110	28-MAY-07
Chromium (Cr)-Dissolved			106		%		90-110	28-MAY-07
Cobalt (Co)-Dissolved			107		%		90-110	28-MAY-07
Copper (Cu)-Dissolved			109		%		90-110	28-MAY-07
Lead (Pb)-Dissolved			101		%		90-110	28-MAY-07
Lithium (Li)-Dissolved			106		%		90-110	28-MAY-07
Molybdenum (Mo)-Dissolved			106		%		90-110	28-MAY-07
Nickel (Ni)-Dissolved			107		%		90-110	28-MAY-07
Selenium (Se)-Dissolved			101		%		90-110	28-MAY-07

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MET-DIS-LOW-MS-VA								
	Water							
Batch	R527836							
WG599753-10	CRM	VA-HIGH-WATRM						
Silver (Ag)-Dissolved			105		%		90-110	28-MAY-07
Strontium (Sr)-Dissolved			104		%		90-110	28-MAY-07
Thallium (Tl)-Dissolved			99		%		85-115	28-MAY-07
Tin (Sn)-Dissolved			105		%		90-110	28-MAY-07
Uranium (U)-Dissolved			107		%		90-110	28-MAY-07
Vanadium (V)-Dissolved			103		%		90-110	28-MAY-07
Batch	R528345							
WG599753-10	CRM	VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			103		%		90-110	29-MAY-07
Manganese (Mn)-Dissolved			103		%		90-110	29-MAY-07
Zinc (Zn)-Dissolved			103		%		85-115	29-MAY-07
MET-TOT-ICP-VA								
	Water							
Batch	R525750							
WG597907-3	CRM	VA-HIGH-WATRM						
Calcium (Ca)-Total			103		%		85-115	23-MAY-07
Iron (Fe)-Total			94		%		90-110	23-MAY-07
Magnesium (Mg)-Total			100		%		85-115	23-MAY-07
Phosphorus (P)-Total			102		%		90-110	23-MAY-07
Potassium (K)-Total			100		%		85-115	23-MAY-07
Silicon (Si)-Total			99		%		90-110	23-MAY-07
Sodium (Na)-Total			96		%		85-115	23-MAY-07
Titanium (Ti)-Total			99		%		90-110	23-MAY-07
WG598005-4	CRM	VA-HIGH-WATRM						
Calcium (Ca)-Total			101		%		85-115	23-MAY-07
Iron (Fe)-Total			93		%		90-110	23-MAY-07
Magnesium (Mg)-Total			98		%		85-115	23-MAY-07
Phosphorus (P)-Total			98		%		90-110	23-MAY-07
Potassium (K)-Total			98		%		85-115	23-MAY-07
Silicon (Si)-Total			97		%		90-110	23-MAY-07
Sodium (Na)-Total			95		%		85-115	23-MAY-07
Titanium (Ti)-Total			97		%		90-110	23-MAY-07
WG597907-1	MB							
Calcium (Ca)-Total			<0.050		mg/L		0.05	23-MAY-07
Iron (Fe)-Total			<0.030				0.03	

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MET-TOT-ICP-VA								
	Water							
Batch	R525750							
WG597907-1	MB							
Iron (Fe)-Total			<0.030		mg/L		0.03	23-MAY-07
Magnesium (Mg)-Total			<0.10		mg/L		0.1	23-MAY-07
Phosphorus (P)-Total			<0.30		mg/L		0.3	23-MAY-07
Potassium (K)-Total			<2.0		mg/L		2	23-MAY-07
Silicon (Si)-Total			<0.050		mg/L		0.05	23-MAY-07
Sodium (Na)-Total			<2.0		mg/L		2	23-MAY-07
Titanium (Ti)-Total			<0.010		mg/L		0.01	23-MAY-07
WG598005-1	MB							
Calcium (Ca)-Total			<0.050		mg/L		0.05	23-MAY-07
Iron (Fe)-Total			<0.030		mg/L		0.03	23-MAY-07
Magnesium (Mg)-Total			<0.10		mg/L		0.1	23-MAY-07
Phosphorus (P)-Total			<0.30		mg/L		0.3	23-MAY-07
Potassium (K)-Total			<2.0		mg/L		2	23-MAY-07
Silicon (Si)-Total			<0.050		mg/L		0.05	23-MAY-07
Sodium (Na)-Total			<2.0		mg/L		2	23-MAY-07
Titanium (Ti)-Total			<0.010		mg/L		0.01	23-MAY-07
Batch	R527661							
WG599659-2	DUP	L507178-7						
Calcium (Ca)-Total		36.6	36.6		mg/L	0.018	20	28-MAY-07
Iron (Fe)-Total		0.055	0.052	J	mg/L	0.003	0.12	28-MAY-07
Magnesium (Mg)-Total		17.0	17.1		mg/L	0.63	20	28-MAY-07
Phosphorus (P)-Total		<0.30	<0.30	RPD-NA	mg/L	N/A	20	28-MAY-07
Potassium (K)-Total		<2.0	<2.0	RPD-NA	mg/L	N/A	20	28-MAY-07
Silicon (Si)-Total		3.29	3.28		mg/L	0.23	20	28-MAY-07
Sodium (Na)-Total		<2.0	<2.0	RPD-NA	mg/L	N/A	20	28-MAY-07
Titanium (Ti)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	28-MAY-07
Batch	R529333							
WG599659-11	CRM	VA-HIGH-WATRM						
Calcium (Ca)-Total			106		%		85-115	31-MAY-07
Iron (Fe)-Total			100		%		90-110	31-MAY-07
Magnesium (Mg)-Total			102		%		85-115	31-MAY-07
Phosphorus (P)-Total			101		%		90-110	31-MAY-07
Potassium (K)-Total			99		%		85-115	31-MAY-07

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MET-TOT-ICP-VA								
	Water							
Batch	R529333							
WG599659-11	CRM	VA-HIGH-WATRM						
Silicon (Si)-Total			99		%		90-110	31-MAY-07
Sodium (Na)-Total			100		%		85-115	31-MAY-07
Titanium (Ti)-Total			99		%		90-110	31-MAY-07
WG599659-1	MB							
Calcium (Ca)-Total			<0.050		mg/L		0.05	31-MAY-07
Iron (Fe)-Total			<0.030		mg/L		0.03	31-MAY-07
Magnesium (Mg)-Total			<0.10		mg/L		0.1	31-MAY-07
Phosphorus (P)-Total			<0.30		mg/L		0.3	31-MAY-07
Potassium (K)-Total			<2.0		mg/L		2	31-MAY-07
Silicon (Si)-Total			<0.050		mg/L		0.05	31-MAY-07
Sodium (Na)-Total			<2.0		mg/L		2	31-MAY-07
Titanium (Ti)-Total			<0.010		mg/L		0.01	31-MAY-07
MET-TOT-LOW-MS-VA								
	Water							
Batch	R525306							
WG597907-1	MB							
Aluminum (Al)-Total			<0.0010		mg/L		0.001	22-MAY-07
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	22-MAY-07
Arsenic (As)-Total			<0.00010		mg/L		0.0001	22-MAY-07
Barium (Ba)-Total			<0.000050		mg/L		0.00005	22-MAY-07
Beryllium (Be)-Total			<0.00050		mg/L		0.0005	22-MAY-07
Bismuth (Bi)-Total			<0.00050		mg/L		0.0005	22-MAY-07
Boron (B)-Total			<0.010		mg/L		0.01	22-MAY-07
Cadmium (Cd)-Total			<0.000050		mg/L		0.00005	22-MAY-07
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	22-MAY-07
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	22-MAY-07
Copper (Cu)-Total			<0.00010		mg/L		0.0001	22-MAY-07
Lead (Pb)-Total			<0.000050		mg/L		0.00005	22-MAY-07
Lithium (Li)-Total			<0.0050		mg/L		0.005	22-MAY-07
Manganese (Mn)-Total			<0.000050		mg/L		0.00005	22-MAY-07
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	22-MAY-07
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	22-MAY-07
Selenium (Se)-Total			<0.0010		mg/L		0.001	22-MAY-07
Silver (Ag)-Total			<0.000010		mg/L		0.00001	22-MAY-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TOT-LOW-MS-VA	Water							
Batch	R525306							
WG597907-1	MB							
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	22-MAY-07
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	22-MAY-07
Tin (Sn)-Total			<0.00010		mg/L		0.0001	22-MAY-07
Uranium (U)-Total			<0.000010		mg/L		0.00001	22-MAY-07
Vanadium (V)-Total			<0.0010		mg/L		0.001	22-MAY-07
Zinc (Zn)-Total			<0.0010		mg/L		0.001	22-MAY-07
Batch	R525881							
WG598005-1	MB							
Aluminum (Al)-Total			<0.0010		mg/L		0.001	23-MAY-07
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	23-MAY-07
Arsenic (As)-Total			<0.00010		mg/L		0.0001	23-MAY-07
Barium (Ba)-Total			<0.000050		mg/L		0.00005	23-MAY-07
Beryllium (Be)-Total			<0.00050		mg/L		0.0005	23-MAY-07
Bismuth (Bi)-Total			<0.00050		mg/L		0.0005	23-MAY-07
Boron (B)-Total			<0.010		mg/L		0.01	23-MAY-07
Cadmium (Cd)-Total			<0.000050		mg/L		0.00005	23-MAY-07
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	23-MAY-07
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	23-MAY-07
Copper (Cu)-Total			<0.00010		mg/L		0.0001	23-MAY-07
Lead (Pb)-Total			<0.000050		mg/L		0.00005	23-MAY-07
Lithium (Li)-Total			<0.0050		mg/L		0.005	23-MAY-07
Manganese (Mn)-Total			<0.000050		mg/L		0.00005	23-MAY-07
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	23-MAY-07
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	23-MAY-07
Selenium (Se)-Total			<0.0010		mg/L		0.001	23-MAY-07
Silver (Ag)-Total			<0.000010		mg/L		0.00001	23-MAY-07
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	23-MAY-07
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	23-MAY-07
Tin (Sn)-Total			<0.00010		mg/L		0.0001	23-MAY-07
Uranium (U)-Total			<0.000010		mg/L		0.00001	23-MAY-07
Vanadium (V)-Total			<0.0010		mg/L		0.001	23-MAY-07
Zinc (Zn)-Total			<0.0010		mg/L		0.001	23-MAY-07

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MET-TOT-LOW-MS-VA	Water							
Batch	R526115							
WG597907-3 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Total			103		%		90-110	23-MAY-07
Antimony (Sb)-Total			101		%		90-110	23-MAY-07
Arsenic (As)-Total			103		%		90-110	23-MAY-07
Barium (Ba)-Total			101		%		90-110	23-MAY-07
Beryllium (Be)-Total			105		%		90-110	23-MAY-07
Bismuth (Bi)-Total			98		%		90-110	23-MAY-07
Boron (B)-Total			98		%		85-115	23-MAY-07
Cadmium (Cd)-Total			96		%		90-110	23-MAY-07
Chromium (Cr)-Total			102		%		90-110	23-MAY-07
Cobalt (Co)-Total			100		%		90-110	23-MAY-07
Copper (Cu)-Total			100		%		90-110	23-MAY-07
Lead (Pb)-Total			99		%		90-110	23-MAY-07
Lithium (Li)-Total			96		%		90-110	23-MAY-07
Manganese (Mn)-Total			102		%		90-110	23-MAY-07
Molybdenum (Mo)-Total			104		%		90-110	23-MAY-07
Nickel (Ni)-Total			101		%		90-110	23-MAY-07
Selenium (Se)-Total			99		%		90-110	23-MAY-07
Silver (Ag)-Total			102		%		90-110	23-MAY-07
Strontium (Sr)-Total			101		%		90-110	23-MAY-07
Thallium (Tl)-Total			97		%		85-115	23-MAY-07
Tin (Sn)-Total			100		%		90-110	23-MAY-07
Uranium (U)-Total			101		%		90-110	23-MAY-07
Vanadium (V)-Total			102		%		90-110	23-MAY-07
Zinc (Zn)-Total			101		%		85-115	23-MAY-07
WG598005-4 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Total			107		%		90-110	23-MAY-07
Antimony (Sb)-Total			105		%		90-110	23-MAY-07
Arsenic (As)-Total			108		%		90-110	23-MAY-07
Barium (Ba)-Total			105		%		90-110	23-MAY-07
Beryllium (Be)-Total			100		%		90-110	23-MAY-07
Bismuth (Bi)-Total			102		%		90-110	23-MAY-07
Boron (B)-Total			102		%		85-115	23-MAY-07
Cadmium (Cd)-Total			101		%		90-110	23-MAY-07

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MET-TOT-LOW-MS-VA								
	Water							
Batch	R526115							
WG598005-4	CRM	VA-HIGH-WATRM						
Chromium (Cr)-Total			108		%		90-110	23-MAY-07
Cobalt (Co)-Total			106		%		90-110	23-MAY-07
Copper (Cu)-Total			104		%		90-110	23-MAY-07
Lead (Pb)-Total			103		%		90-110	23-MAY-07
Lithium (Li)-Total			100		%		90-110	23-MAY-07
Manganese (Mn)-Total			106		%		90-110	23-MAY-07
Molybdenum (Mo)-Total			108		%		90-110	23-MAY-07
Nickel (Ni)-Total			106		%		90-110	23-MAY-07
Selenium (Se)-Total			103		%		90-110	23-MAY-07
Silver (Ag)-Total			106		%		90-110	23-MAY-07
Strontium (Sr)-Total			106		%		90-110	23-MAY-07
Thallium (Tl)-Total			99		%		85-115	23-MAY-07
Tin (Sn)-Total			104		%		90-110	23-MAY-07
Uranium (U)-Total			105		%		90-110	23-MAY-07
Vanadium (V)-Total			106		%		90-110	23-MAY-07
Zinc (Zn)-Total			106		%		85-115	23-MAY-07
Batch	R527110							
WG599659-1	MB							
Aluminum (Al)-Total			<0.0010		mg/L		0.001	25-MAY-07
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	25-MAY-07
Arsenic (As)-Total			<0.00010		mg/L		0.0001	25-MAY-07
Barium (Ba)-Total			<0.000050		mg/L		0.00005	25-MAY-07
Beryllium (Be)-Total			<0.00050		mg/L		0.0005	25-MAY-07
Bismuth (Bi)-Total			<0.00050		mg/L		0.0005	25-MAY-07
Boron (B)-Total			<0.010		mg/L		0.01	25-MAY-07
Cadmium (Cd)-Total			<0.000050		mg/L		0.00005	25-MAY-07
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	25-MAY-07
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	25-MAY-07
Copper (Cu)-Total			<0.00010		mg/L		0.0001	25-MAY-07
Lead (Pb)-Total			<0.000050		mg/L		0.00005	25-MAY-07
Lithium (Li)-Total			<0.0050		mg/L		0.005	25-MAY-07
Manganese (Mn)-Total			<0.000050		mg/L		0.00005	25-MAY-07
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	25-MAY-07

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MET-TOT-LOW-MS-VA	Water							
Batch R527110								
WG599659-1 MB								
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	25-MAY-07
Selenium (Se)-Total			<0.0010		mg/L		0.001	25-MAY-07
Silver (Ag)-Total			<0.000010		mg/L		0.00001	25-MAY-07
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	25-MAY-07
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	25-MAY-07
Tin (Sn)-Total			<0.00010		mg/L		0.0001	25-MAY-07
Uranium (U)-Total			<0.000010		mg/L		0.00001	25-MAY-07
Vanadium (V)-Total			<0.0010		mg/L		0.001	25-MAY-07
Zinc (Zn)-Total			<0.0010		mg/L		0.001	25-MAY-07
Batch R527728								
WG599659-2 DUP		L507178-7						
Aluminum (Al)-Total		0.0070	0.0075	J	mg/L	0.0005	0.004	28-MAY-07
Antimony (Sb)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	28-MAY-07
Arsenic (As)-Total		0.00028	0.00027	J	mg/L	0.00001	0.0004	28-MAY-07
Barium (Ba)-Total		0.0166	0.0167		mg/L	0.59	20	28-MAY-07
Beryllium (Be)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	28-MAY-07
Bismuth (Bi)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	28-MAY-07
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	28-MAY-07
Cadmium (Cd)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	28-MAY-07
Chromium (Cr)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	28-MAY-07
Cobalt (Co)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	28-MAY-07
Copper (Cu)-Total		<0.00010	0.00014	RPD-NA	mg/L	N/A	20	28-MAY-07
Lead (Pb)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	28-MAY-07
Lithium (Li)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	28-MAY-07
Manganese (Mn)-Total		0.00286	0.00292		mg/L	1.9	20	28-MAY-07
Molybdenum (Mo)-Total		0.000062	0.000058	J	mg/L	0.000004	0.0002	28-MAY-07
Nickel (Ni)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	28-MAY-07
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	28-MAY-07
Silver (Ag)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	28-MAY-07
Strontium (Sr)-Total		0.0309	0.0313		mg/L	1.3	20	28-MAY-07
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	28-MAY-07
Tin (Sn)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	28-MAY-07
Uranium (U)-Total		0.000037	0.000036	J	mg/L	0.000001	0.00004	28-MAY-07

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MET-TOT-LOW-MS-VA								
	Water							
Batch	R527728							
WG599659-2	DUP	L507178-7						
Vanadium (V)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	28-MAY-07
Zinc (Zn)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	28-MAY-07
Batch	R527836							
WG599659-11	CRM	VA-HIGH-WATRM						
Antimony (Sb)-Total			104		%		90-110	28-MAY-07
Arsenic (As)-Total			105		%		90-110	28-MAY-07
Barium (Ba)-Total			107		%		90-110	28-MAY-07
Beryllium (Be)-Total			105		%		90-110	28-MAY-07
Bismuth (Bi)-Total			99		%		90-110	28-MAY-07
Boron (B)-Total			113		%		85-115	28-MAY-07
Cadmium (Cd)-Total			106		%		90-110	28-MAY-07
Chromium (Cr)-Total			107		%		90-110	28-MAY-07
Cobalt (Co)-Total			108		%		90-110	28-MAY-07
Lead (Pb)-Total			102		%		90-110	28-MAY-07
Lithium (Li)-Total			108		%		90-110	28-MAY-07
Molybdenum (Mo)-Total			108		%		90-110	28-MAY-07
Nickel (Ni)-Total			106		%		90-110	28-MAY-07
Selenium (Se)-Total			103		%		90-110	28-MAY-07
Silver (Ag)-Total			106		%		90-110	28-MAY-07
Strontium (Sr)-Total			107		%		90-110	28-MAY-07
Thallium (Tl)-Total			100		%		85-115	28-MAY-07
Tin (Sn)-Total			107		%		90-110	28-MAY-07
Uranium (U)-Total			106		%		90-110	28-MAY-07
Vanadium (V)-Total			104		%		90-110	28-MAY-07
Batch	R528345							
WG599659-11	CRM	VA-HIGH-WATRM						
Aluminum (Al)-Total			104		%		90-110	29-MAY-07
Copper (Cu)-Total			99		%		90-110	29-MAY-07
Manganese (Mn)-Total			102		%		90-110	29-MAY-07
Zinc (Zn)-Total			105		%		85-115	29-MAY-07
NH3-SIE-VA								
	Water							

ALS Laboratory Group Quality Control Report

Workorder: L507178

Report Date: 07-JUN-07

Page 14 of 17

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-SIE-VA		Water						
Batch	R526130							
WG599389-2	CRM	VA-SPXNUT-22-16						
Ammonia as N			100		%		86-114	23-MAY-07
WG599389-1	MB							
Ammonia as N			<0.020		mg/L		0.02	23-MAY-07
PH-PCT-VA		Water						
Batch	R526459							
WG599380-2	CRM	VA-PH7-BUF						
pH			6.99		pH		6.97-7.03	24-MAY-07
WG599380-4	DUP	L507178-9						
pH		8.07	8.08		pH	0.11	20	24-MAY-07
SE-DIS-HVAAS-VA		Water						
Batch	R527116							
WG599753-7	DUP	L507178-6						
Selenium (Se)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	25-MAY-07
Batch	R530528							
WG599753-10	CRM	VA-HIGH-WATRM						
Selenium (Se)-Dissolved			90		%		90-110	04-JUN-07
Batch	R531278							
WG599753-1	MB							
Selenium (Se)-Dissolved			<0.00050		mg/L		0.0005	05-JUN-07
SE-TOT-HVAAS-VA		Water						
Batch	R527091							
WG597907-3	CRM	VA-HIGH-WATRM						
Selenium (Se)-Total			107		%		90-110	25-MAY-07
WG598005-4	CRM	VA-HIGH-WATRM						
Selenium (Se)-Total			106		%		90-110	25-MAY-07
Batch	R527116							
WG599659-2	DUP	L507178-7						
Selenium (Se)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	25-MAY-07
Batch	R529996							
WG599659-1	MB							
Selenium (Se)-Total			<0.00050		mg/L		0.0005	01-JUN-07

ALS Laboratory Group Quality Control Report

Workorder: L507178

Report Date: 07-JUN-07

Page 15 of 17

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SE-TOT-HVAAS-VA								
	Water							
Batch	R531278							
WG599659-11	CRM	VA-HIGH-WATRM						
Selenium (Se)-Total			97		%		90-110	05-JUN-07
WG597907-1	MB							
Selenium (Se)-Total			<0.00050		mg/L		0.0005	05-JUN-07
WG598005-1	MB							
Selenium (Se)-Total			<0.00050		mg/L		0.0005	05-JUN-07
TDS-VA								
	Water							
Batch	R528141							
WG600153-1	MB							
Total Dissolved Solids			<10		mg/L		10	29-MAY-07
TKN-COL-VA								
	Water							
Batch	R526398							
WG599804-2	CRM	VA-TKN-CSPK1						
Total Kjeldahl Nitrogen			109		%		85-115	24-MAY-07
WG599804-1	MB							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	24-MAY-07
Batch	R527755							
WG601484-2	CRM	VA-TKN-CSPK1						
Total Kjeldahl Nitrogen			103		%		85-115	28-MAY-07
WG601484-1	MB							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	28-MAY-07
TSS-VA								
	Water							
Batch	R527580							
WG600150-1	MB							
Total Suspended Solids			<3.0		mg/L		3	28-MAY-07
TURBIDITY-VA								
	Water							
Batch	R526355							
WG599754-3	DUP	L507178-4						
Turbidity			28.9		NTU	0.0	20	24-MAY-07
WG599754-4	DUP	L507178-9						
Turbidity			26.3		NTU	7.5	20	24-MAY-07
WG599754-1	MB							
Turbidity			<0.10		NTU		0.1	24-MAY-07

ALS Laboratory Group Quality Control Report

Workorder: L507178

Report Date: 07-JUN-07

Page 16 of 17

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TURBIDITY-VA	Water							
Batch	R527882							
WG601618-1	MB							
Turbidity			<0.10		NTU		0.1	28-MAY-07

ALS Laboratory Group Quality Control Report

Workorder: L507178

Report Date: 07-JUN-07

Page 17 of 17

Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Qualifier:

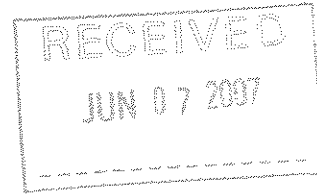
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.
A	Method blank exceeds acceptance limit. Blank correction not applied, unless the qualifier "RAMB" (result adjusted for method blank) appears in the Analytical Report.
B	Method blank result exceeds acceptance limit, however, it is less than 5% of sample concentration. Blank correction not applied.
E	Matrix spike recovery may fall outside the acceptance limits due to high sample background.
F	Silver recovery low, likely due to elevated chloride levels in sample.
G	Outlier - No assignable cause for nonconformity has been determined.
J	Duplicate results and limit(s) are expressed in terms of absolute difference.
K	The sample referenced above is of a non-standard matrix type; standard QC acceptance criteria may not be achievable.
L	Low matrix spike recovery due to instability of spiked analyte in the sample matrix.

SRC ANALYTICAL

L7.5-189

422 Downey Road
Saskatoon, Saskatchewan, S7N 4N1
(306) 933-6932 or 1-800-240-8808
Fax: (306) 933-7922

ALS
Aurora Laboratory Services Ltd.
1988 Triumph Street
Vancouver, British Columbia V5L 1K5
Attn: Jerry Holzbecher



Date Samples Received: May-22-2007 Client P.O.: LW10211

Analysis has been reviewed by:

A handwritten signature in dark ink, appearing to read "D. Chorney".

Dave Chorney
Radiochemistry and SLOWPOKE II Supervisor

- * Test methods and data are validated by the laboratory's Quality Assurance Program. SRC Analytical is accredited by the Canadian Association for Environmental Analytical Laboratories (CAEAL) for specific tests listed in the scope of accreditation approved by CAEAL.
- * Routine methods follow recognized procedures from sources such as
 - * Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF
 - * Environment Canada
 - * US EPA
 - * CANMET
- * Samples will be kept for 30 working days after the final report is sent. Please contact the lab if you have any special requirements.

SRC ANALYTICAL

422 Downey Road
 Saskatoon, Saskatchewan S7N 4N1
 (306) 933-6932 1-800-240-8808

L7.5-190

ALS
 Aurora Laboratory Services Ltd.
 1988 Triumph Street
 Vancouver, British Columbia V5L 1K5
 Attn: Jerry Holzbecher

Jun-01-2007

Date Samples Received: May-22-2007 Client P.O.: LW10211

SAMPLE	CLIENT DESCRIPTION
14004	5/15/2007 MRW1 L507178-1 *WATER*
14005	5/16/2007 MRW2 L507178-2 *WATER*
14006	5/15/2007 MRW3 L507178-3 *WATER*

ANALYTE	UNITS	14004	14005	14006
---------	-------	-------	-------	-------

RADIO CHEMISTRY				
Radium-226	Bq/L	<0.005	<0.005	<0.005

SAMPLE	CLIENT DESCRIPTION
14007	5/16/2007 HRW1 L507178-4 *WATER*
14008	5/15/2007 OCW1 L507178-5 *WATER*
14009	5/16/2007 OCW2 L507178-6 *WATER*

ANALYTE	UNITS	14007	14008	14009
---------	-------	-------	-------	-------

RADIO CHEMISTRY				
Radium-226	Bq/L	<0.005	<0.005	<0.005

SAMPLE	CLIENT DESCRIPTION
14010	5/16/2007 OCW3 L507178-7 *WATER*
14011	5/16/2007 WRW1 L507178-8 *WATER*
14012	5/16/2007 WRW2 L507178-9 *WATER*

ANALYTE	UNITS	14010	14011	14012
---------	-------	-------	-------	-------

RADIO CHEMISTRY				
Radium-226	Bq/L	<0.005	<0.005	<0.005

"<": not detected at level stated above

SRC ANALYTICAL

15 Innovation Blvd.
 Saskatoon, Saskatchewan S7N 2X8
 (306) 933-6932 1-800-240-8808

L7.5-191

(Summary of charges: not an invoice)

ALS
 Aurora Laboratory Services Ltd.
 1988 Triumph Street
 Vancouver, British Columbia V5L 1K5
 Attn: Jerry Holzbecher

Jun-01-2007

Date Samples Received: May-22-2007 Client P.O.: LW10211

SRC Sample Numbers: 14004 to 14012

14004 15-May-07 MRW1 L507178-1
 14005 16-May-07 MRW2 L507178-2
 14006 15-May-07 MRW3 L507178-3
 14007 16-May-07 HRW1 L507178-4
 14008 15-May-07 OCW1 L507178-5
 14009 16-May-07 OCW2 L507178-6
 14010 16-May-07 OCW3 L507178-7
 14011 16-May-07 WRW1 L507178-8
 14012 16-May-07 WRW2 L507178-9

No. of Det'ns	Analyte Description	Unit Charge	No. of Det'ns	Analyte Description	Unit Charge
9	Radium-226	\$87.00			

Analyte Charge Subtotal = \$783.00

9 Fusion @ \$35.00 each

Special Charges Subtotal = \$315.00

Summary of Charges (Before taxes) = \$1098.00

This summary of charges does not include the 6% GST. It will be added to the invoice if applicable. Payment is due upon the receipt of invoice. Late payment charges will be assessed after 30 days at a rate of 1.5% compounded monthly.



Environmental Division

REPORT TO: **URS**

COMPANY: **URS**

CONTACT: **650 West Georgia St**

ADDRESS: **Keith Manthey Vancouver**

PHONE: **6046811672** FAX: **6046873446**

INVOICE TO: **SAME AS REPORT ? (YES/NO)**

COMPANY: **BC, V6B 4W7**

CONTACT: **James - Phillips**

ADDRESS: **39548827**

PHONE: **Jerry Holzbecher**

LEGAL SITE DESCRIPTION: **Munego**

QUOTE #:

STANDARD: EXCEL CUSTOM FAX

EMAIL 1: **keith-manthey@urscorp.com**

EMAIL 2: **James-Phillips@bc.ca**

INDICATE BOTTLES: FILTERED / PRESERVED (F/P)

CLIENT / PROJECT INFORMATION:

JOB #: **39548827**

PO / A/E: **Jerry Holzbecher**

Legal Site Description: **Munego**

QUOTE #:

REPORT FORMAT / DISTRIBUTION

STANDARD: EXCEL CUSTOM FAX

EMAIL 1: **keith-manthey@urscorp.com**

EMAIL 2: **James-Phillips@bc.ca**

INDICATE BOTTLES: FILTERED / PRESERVED (F/P)

CLIENT / PROJECT INFORMATION:

JOB #: **39548827**

PO / A/E: **Jerry Holzbecher**

Legal Site Description: **Munego**

QUOTE #:

REPORT FORMAT / DISTRIBUTION

STANDARD: EXCEL CUSTOM FAX

EMAIL 1: **keith-manthey@urscorp.com**

SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLER (Initials):	SAMPLE TYPE	ANALYSIS REQUEST							HAZARDOUS ?	HIGHLY CONTAMINATED ?	NUMBER OF CONTAINERS	
					General Parameters	Cyanide	Radium 226	Total metals (Field Pres)	Dissolved Metals (Field filtered, Field Pres)	Ammonia	Total Nitrogen				REGULAR SERVICE (DEFAULT)
MRW1	May 15 07	PM	TP/CLB	Surface Water	X	X	X	X	X	X	X	X			
MRW2	May 15	PM			X	X	X	X	X	X	X	X			
MRW3	May 15	AM			X	X	X	X	X	X	X	X			
HRW1	May 16	PM			X	X	X	X	X	X	X	X			
OCW1	May 16	AM			X	X	X	X	X	X	X	X			
OCW2	May 16	AM			X	X	X	X	X	X	X	X			
OCW3	May 16	AM			X	X	X	X	X	X	X	X			
WRW1	May 16	AM			X	X	X	X	X	X	X	X			
WRW2	May 16	AM			X	X	X	X	X	X	X	X			

GUIDELINES / REGULATIONS

SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse page of the white report copy.

RELINQUISHED BY: **[Signature]** DATE & TIME: **May 17/07** RECEIVED BY: **[Signature]** DATE & TIME: **May 17/07**

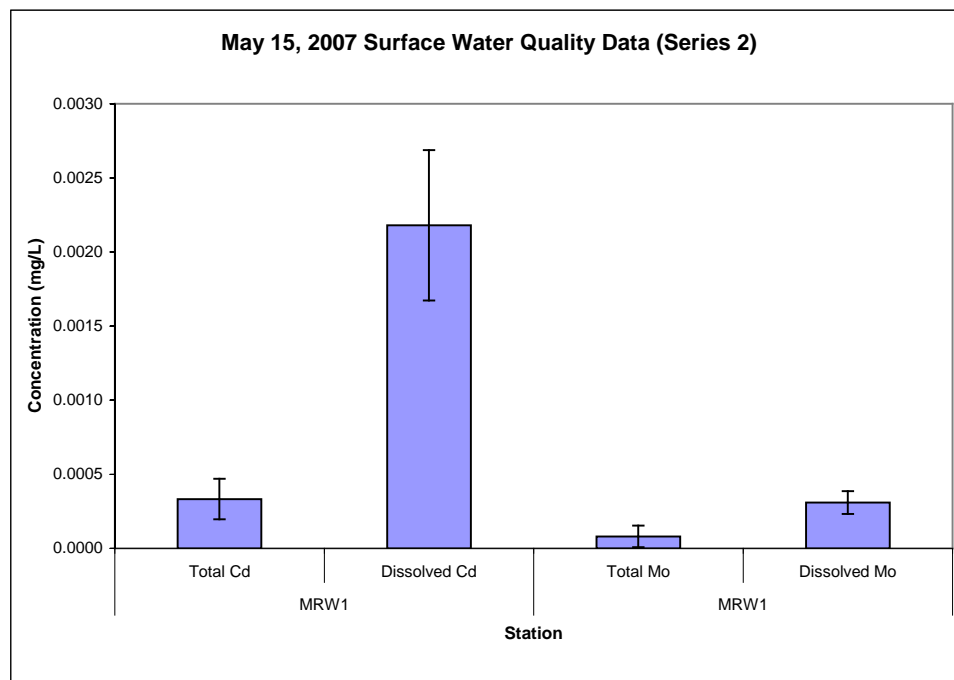
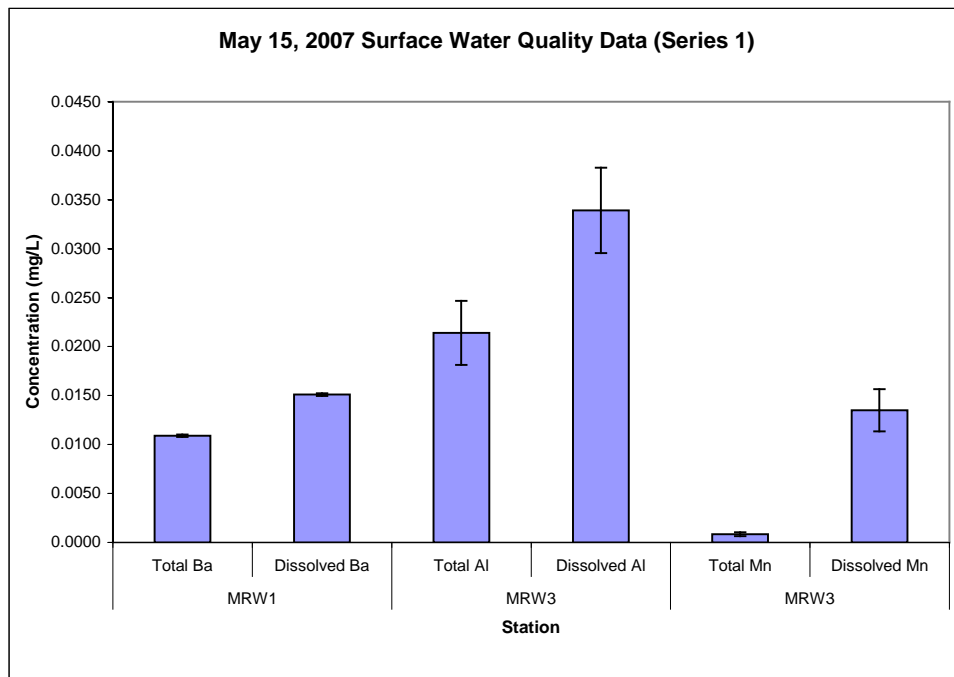
TEMPERATURE: **9°C** SAMPLES RECEIVED IN GOOD CONDITION? YES / NO

REFER TO BACK PAGE FOR REGIONAL LOCATIONS AND SAMPLING INFORMATION

WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY

L75-192 GENF-14.00

**May 15, 2007 Minago Surface Water Quality Data
for which the measured Dissolved concentrations were higher than the Total concentrations**



APPENDIX L7.5-J

Certified Laboratory Reports for Surface Water Quality

June 2007 Results



Environmental Division

ANALYTICAL REPORT

URS CANADA INC.

ATTN: KEITH MOUNTJOY

P.O. BOX 11507
1900 - 650 WEST GEORGIA STREET
VANCOUVER BC V6B 4N7

Reported On: 10-JUL-07 09:18 AM

Revision: 2

Lab Work Order #: L518885

Date Received: 15-JUN-07

Project P.O. #:

Job Reference: 39548827 MINAGO

Legal Site Desc:

CofC Numbers: A015248

Other Information:

Comments: Please note that the unpreserved bottles for this submission were sampled on June 26th 2007. All other bottles were sampled on June 12th, 2007.

Timothy Guy Crowther
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Jerry Holzbecher

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS Canada Ltd.
Part of the **ALS Laboratory Group**

1988 Triumph Street, Vancouver, BC V5L 1K5
Phone: +1 604 253 4188 Fax: +1 604 253 6700 www.alsglobal.com
A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L518885-1	L518885-2	L518885-3	L518885-4	L518885-5
		12-JUN-07	12-JUN-07	12-JUN-07	13-JUN-07	13-JUN-07
		OCW1	OCW2	OCW3	HRW1	MRW1
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	191	209	179	103	139
	Conductivity (uS/cm)	260	284	269	155	211
	pH (pH)	8.11	8.08	8.03	7.99	8.05
	Total Dissolved Solids (mg/L)	184	189	176	141	159
	Total Suspended Solids (mg/L)	<3.0	<3.0	<3.0	38.5	<3.0
	Turbidity (NTU)	0.80	0.34	0.28	33.8	1.46
Anions and Nutrients	Ammonia as N (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
	Acidity (as CaCO3) (mg/L)	2.3	2.4	3.0	2.6	2.4
	Alkalinity, Total (as CaCO3) (mg/L)	151	163	156	90.3	121
	Bromide (Br) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	0.060	0.067	0.043	0.050	<0.020
	Sulfate (SO4) (mg/L)	<0.50	0.59	<0.50	<0.50	<0.50
	Nitrate (as N) (mg/L)	<0.0050	<0.0050	<0.0050	0.0100	<0.0050
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Total Kjeldahl Nitrogen (mg/L)	0.476	0.447	0.532	0.629	0.614
	Total Nitrogen (mg/L)	0.476	0.447	0.532	0.639	0.614
Cyanides	Cyanide, Total (mg/L)	0.0109	0.0077	0.0083	0.0092	0.0092
Total Metals	Aluminum (Al)-Total (mg/L)	0.0346	0.0134	0.0088	1.66	0.0488
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	0.00041	0.00033	0.00032	0.00096	0.00081
	Barium (Ba)-Total (mg/L)	0.0232	0.0282	0.0209	0.0199	0.0115
	Beryllium (Be)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	0.011	0.012	0.011	0.010	0.013
	Cadmium (Cd)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Calcium (Ca)-Total (mg/L)	42.5	46.4	40.3	24.9	31.8
	Chromium (Cr)-Total (mg/L)	<0.00050	<0.00050	<0.00050	0.00256	<0.00050
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	<0.00010	0.00069	<0.00010
	Copper (Cu)-Total (mg/L)	0.00027	0.00027	0.00020	0.00200	0.00068
	Iron (Fe)-Total (mg/L)	0.079	0.056	0.063	1.34	0.091
	Lead (Pb)-Total (mg/L)	<0.000050	0.000073	<0.000050	0.000643	0.000052
	Lithium (Li)-Total (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Total (mg/L)	20.8	22.0	18.7	11.0	14.7
	Manganese (Mn)-Total (mg/L)	0.0192	0.00561	0.00413	0.0805	0.0120
	Mercury (Hg)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Total (mg/L)	0.000128	0.000112	0.000072	0.000147	0.000089
	Nickel (Ni)-Total (mg/L)	<0.00050	<0.00050	<0.00050	0.00217	<0.00050
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID Description Sampled Date Sampled Time Client ID	L518885-6	L518885-7	L518885-8	L518885-9	L518885-10
			13-JUN-07	14-JUN-07	13-JUN-07	13-JUN-07	12-JUN-07
			MRW2	MRW3	WRW1=WRW2x	WRW2=WRW1x	DUP 1 of OCW1
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)	205	139	192	154	190	
	Conductivity (uS/cm)	305	213	277	225	263	
	pH (pH)	8.16	7.94	8.25	8.11	8.12	
	Total Dissolved Solids (mg/L)	200	159	197	177	186	
	Total Suspended Solids (mg/L)	<3.0	<3.0	65.0	23.5	<3.0	
	Turbidity (NTU)	2.42	1.12	28.3	20.8	0.70	
Anions and Nutrients	Ammonia as N (mg/L)	<0.020	0.021	0.032	0.024	<0.020	
	Acidity (as CaCO3) (mg/L)	2.1	3.1	1.3	2.3	2.2	
	Alkalinity, Total (as CaCO3) (mg/L)	176	124	158	131	156	
	Bromide (Br) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	
	Chloride (Cl) (mg/L)	0.65	<0.50	1.00	0.66	<0.50	
	Fluoride (F) (mg/L)	0.050	0.036	0.068	0.040	0.045	
	Sulfate (SO4) (mg/L)	1.15	0.52	1.76	0.88	<0.50	
	Nitrate (as N) (mg/L)	0.0055	<0.0050	<0.0050	<0.0050	<0.0050	
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
	Total Kjeldahl Nitrogen (mg/L)	0.522	0.645	0.660	0.495	0.474	
Total Nitrogen (mg/L)	0.527	0.645	0.660	0.495	0.474		
Cyanides	Cyanide, Total (mg/L)	0.0067	0.0090	0.0056	0.0082	0.0102	
Total Metals	Aluminum (Al)-Total (mg/L)	0.185	0.0842	0.968	1.94	0.0286	
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
	Arsenic (As)-Total (mg/L)	0.00061	0.00077	0.00065	0.00075	0.00041	
	Barium (Ba)-Total (mg/L)	0.0269	0.0112	0.0295	0.0300	0.0233	
	Beryllium (Be)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
	Boron (B)-Total (mg/L)	0.020	0.013	0.014	0.012	0.011	
	Cadmium (Cd)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
	Calcium (Ca)-Total (mg/L)	45.1	31.6	29.9	29.6	42.1	
	Chromium (Cr)-Total (mg/L)	<0.00050	<0.00050	0.00163	0.00298	<0.00050	
	Cobalt (Co)-Total (mg/L)	0.00015	<0.00010	0.00047	0.00072	<0.00010	
	Copper (Cu)-Total (mg/L)	0.00055	<0.0010	0.00131	0.00183	0.00028	
	Iron (Fe)-Total (mg/L)	0.262	0.137	0.833	1.45	0.077	
	Lead (Pb)-Total (mg/L)	0.000095	<0.00020	0.000561	0.000707	0.000052	
	Lithium (Li)-Total (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
	Magnesium (Mg)-Total (mg/L)	21.9	13.9	26.7	22.4	20.7	
	Manganese (Mn)-Total (mg/L)	0.0464	0.0355	0.0290	0.0437	0.0184	
	Mercury (Hg)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
	Molybdenum (Mo)-Total (mg/L)	0.000170	0.000129	0.000131	0.000116	0.000077	
	Nickel (Ni)-Total (mg/L)	0.00055	0.00102	0.00138	0.00223	<0.00050	
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30	

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Sample ID Description Sampled Date Sampled Time Client ID		L518885-1	L518885-2	L518885-3	L518885-4	L518885-5
		12-JUN-07	12-JUN-07	12-JUN-07	13-JUN-07	13-JUN-07
		OCW1	OCW2	OCW3	HRW1	MRW1
Grouping	Analyte					
WATER						
Total Metals	Potassium (K)-Total (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Selenium (Se)-Total (mg/L)	<0.00050	<0.00050	<0.00050	0.00063	<0.00050
	Silicon (Si)-Total (mg/L)	2.99	2.88	2.60	5.46	2.36
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	0.000012	<0.000010
	Sodium (Na)-Total (mg/L)	2.4	2.2	<2.0	3.1	4.5
	Strontium (Sr)-Total (mg/L)	0.0483	0.0536	0.0451	0.0473	0.0518
	Thallium (Tl)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Total (mg/L)	<0.00010	0.00018	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	<0.010	0.051	<0.010
	Uranium (U)-Total (mg/L)	0.000189	0.000209	0.000031	0.000153	0.000118
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	<0.0010	0.0032	<0.0010
	Zinc (Zn)-Total (mg/L)	0.0011	0.0018	<0.0010	0.0059	0.0011
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0065	0.0028	0.0027	0.0755	0.0109
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00042	0.00034	0.00032	0.00087	0.00078
	Barium (Ba)-Dissolved (mg/L)	0.0227	0.0280	0.0204	0.0104	0.0112
	Beryllium (Be)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	0.010	0.013	0.011	<0.010	0.012
	Cadmium (Cd)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Calcium (Ca)-Dissolved (mg/L)	41.9	47.0	40.2	24.1	31.5
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00032	0.00018	0.00018	0.00111	0.00064
	Iron (Fe)-Dissolved (mg/L)	0.043	0.032	0.030	0.100	0.041
	Lead (Pb)-Dissolved (mg/L)	0.000052	<0.000050	<0.000050	0.000081	<0.000050
	Lithium (Li)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Dissolved (mg/L)	20.9	22.3	19.1	10.4	14.8
	Manganese (Mn)-Dissolved (mg/L)	0.0126	0.00402	0.00296	0.0272	0.00658
	Mercury (Hg)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.000123	0.000102	0.000062	0.000075	0.000071
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	0.00067	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Selenium (Se)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Silicon (Si)-Dissolved (mg/L)	2.96	2.94	2.65	3.07	2.27
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	2.4	2.3	<2.0	3.1	4.5
	Strontium (Sr)-Dissolved (mg/L)	0.0492	0.0532	0.0454	0.0450	0.0519

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Sample ID Description Sampled Date Sampled Time Client ID		L518885-6	L518885-7	L518885-8	L518885-9	L518885-10
		13-JUN-07	14-JUN-07	13-JUN-07	13-JUN-07	12-JUN-07
		MRW2	MRW3	WRW1=WRW2x	WRW2=WRW1x	DUP 1 of OCW1
Grouping	Analyte					
WATER						
Total Metals	Potassium (K)-Total (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Selenium (Se)-Total (mg/L)	0.00061	<0.00050	0.00063	0.00094	<0.00050
	Silicon (Si)-Total (mg/L)	2.75	2.35	3.78	5.67	2.98
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	0.000012	<0.000010
	Sodium (Na)-Total (mg/L)	5.3	4.4	2.5	3.1	2.4
	Strontium (Sr)-Total (mg/L)	0.0718	0.0615	0.0357	0.0401	0.0499
	Thallium (Tl)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00020	<0.00010	<0.00030	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	0.034	0.065	<0.010
	Uranium (U)-Total (mg/L)	0.000210	0.000124	0.000290	0.000263	0.000195
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	0.0019	0.0032	<0.0010
	Zinc (Zn)-Total (mg/L)	0.0011	<0.0040	<0.0060	<0.0070	0.0014
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0135	0.0058	0.211	0.0446	0.0048
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00063	0.00077	0.00066	0.00067	0.00041
	Barium (Ba)-Dissolved (mg/L)	0.0260	0.00992	0.0250	0.0187	0.0226
	Beryllium (Be)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	0.020	0.013	0.014	0.011	0.010
	Cadmium (Cd)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Calcium (Ca)-Dissolved (mg/L)	45.2	31.9	30.0	25.9	41.8
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	0.00013	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00049	0.00064	0.00074	0.00061	0.00020
	Iron (Fe)-Dissolved (mg/L)	0.071	0.041	0.166	0.042	0.041
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	0.000149	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Dissolved (mg/L)	22.3	14.3	28.5	21.6	20.7
	Manganese (Mn)-Dissolved (mg/L)	0.0368	0.0109	0.0112	0.00689	0.0120
	Mercury (Hg)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.000156	0.000073	0.000126	0.000110	0.000074
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	<0.00050	0.00054	<0.00050	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Selenium (Se)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Silicon (Si)-Dissolved (mg/L)	2.48	2.29	2.77	2.68	2.94
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	5.4	4.6	2.6	3.0	2.4
	Strontium (Sr)-Dissolved (mg/L)	0.0722	0.0603	0.0312	0.0309	0.0494

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		Sample ID	L518885-1	L518885-2	L518885-3	L518885-4	L518885-5
		Description					
		Sampled Date	12-JUN-07	12-JUN-07	12-JUN-07	13-JUN-07	13-JUN-07
		Sampled Time					
		Client ID	OCW1	OCW2	OCW3	HRW1	MRW1
Grouping	Analyte						
WATER							
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.000191	0.000213	0.000032	0.000113	0.000125
	Vanadium (V)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)		0.0015	<0.0010	<0.0010	0.0014	<0.0010
Radiological Parameters	Radium-226 (Bq/L)		<0.005	<0.005	<0.005	0.005	<0.005

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L518885-6	L518885-7	L518885-8	L518885-9	L518885-10
		Description					
		Sampled Date	13-JUN-07	14-JUN-07	13-JUN-07	13-JUN-07	12-JUN-07
		Sampled Time					
		Client ID	MRW2	MRW3	WRW1=WRW2x	WRW2=WRW1x	DUP 1 of OCW1
Grouping	Analyte						
WATER							
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	0.00017	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.000213	0.000127	0.000298	0.000243	0.000193	0.000193
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	<0.0010	0.0012	0.0014	<0.0010	<0.0010	<0.0010
Radiological Parameters	Radium-226 (Bq/L)	0.007	<0.005	<0.005	<0.005	0.006	

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automated Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
CN-T-MID-HH-COL-VA	Water	Total Cyanide by HH Distillation	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
HG-DIS-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS	EPA SW-846 3005A & EPA 245.7
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
HG-TOT-CVAFS-VA	Water	Total Mercury in Water by CVAFS	EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
<p>This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p>			
RADIO-RADIUM226-SR	Water	Radium 226	CANMET 1986
SE-DIS-HVAAS-VA	Water	Dissolved Selenium in Water by HVAAS	EPA 3005A/7000 SERIES
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption spectrophotometry (EPA Method 7000 series).</p>			
SE-TOT-HVAAS-VA	Water	Total Selenium in Water by HVAAS	EPA 3005A/7000 SERIES
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption spectrophotometry (EPA Method 7000 series).</p>			
TDS-VA	Water	Total Dissolved Solids by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
TKN-COL-VA	Water	Total Kjeldahl Nitrogen by Auto. Colour	APHA 4500-Norg (TKN)
This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.			
TN-CALC-VA	Water	TN by Calc (TKN + N+N)	BC MOE LABORATORY MANUAL (2005)
Total Nitrogen is determined by calculation by suming TKN and the NO2 and NO3 results.			
TSS-VA	Water	Solids by Gravimetric	APHA 2540 Gravimetric
This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.			
TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
SR	Saskatchewan Research Council - Saskatoon, Saskatchewan, Can	VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in enviromental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

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Client: URS CANADA INC.
P.O. BOX 11507 1900 - 650 WEST GEORGIA STREET
VANCOUVER BC V6B 4N7

Contact: KEITH MOUNTJOY

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-PCT-VA		Water						
Batch	R543552							
WG620064-2	CRM	VA-ACY-CONTROL						
Acidity (as CaCO3)			100		%		85-115	04-JUL-07
WG620064-4	DUP	L518885-2						
Acidity (as CaCO3)		2.4	2.5	J	mg/L	0.1	4	04-JUL-07
WG620064-1	MB							
Acidity (as CaCO3)			2.8	A	mg/L		1	04-JUL-07
ALK-COL-VA		Water						
Batch	R542680							
WG619458-2	DUP	L518885-3						
Alkalinity, Total (as CaCO3)		156	156		mg/L	0.57	20	30-JUN-07
WG619458-1	MB							
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	30-JUN-07
ANIONS-BR-IC-VA		Water						
Batch	R543761							
WG620375-13	CRM	VA-ALLT-170088						
Bromide (Br)			99		%		90-110	04-JUL-07
WG620375-2	CRM	VA-ALLT-170088						
Bromide (Br)			97		%		90-110	04-JUL-07
WG620375-3	DUP	L518885-2						
Bromide (Br)		<0.050	<0.050	RPD-NA	mg/L	N/A	20	04-JUL-07
WG620375-1	MB							
Bromide (Br)			<0.050		mg/L		0.05	04-JUL-07
WG620375-10	MB							
Bromide (Br)			<0.050		mg/L		0.05	04-JUL-07
WG620375-12	MB							
Bromide (Br)			<0.050		mg/L		0.05	04-JUL-07
WG620375-4	MB							
Bromide (Br)			<0.050		mg/L		0.05	04-JUL-07
WG620375-6	MB							
Bromide (Br)			<0.050		mg/L		0.05	04-JUL-07
WG620375-8	MB							
Bromide (Br)			<0.050		mg/L		0.05	04-JUL-07
ANIONS-CL-IC-VA		Water						
Batch	R543761							
WG620375-13	CRM	VA-ALLT-170088						
Chloride (Cl)			101		%		94-106	04-JUL-07
WG620375-2	CRM	VA-ALLT-170088						

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ANIONS-CL-IC-VA		Water						
Batch	R543761							
WG620375-2	CRM	VA-ALLT-170088						
Chloride (Cl)			101		%		94-106	04-JUL-07
WG620375-3	DUP	L518885-2						
Chloride (Cl)		<0.50	<0.50	RPD-NA	mg/L	N/A	20	04-JUL-07
WG620375-1	MB							
Chloride (Cl)			<0.50		mg/L		0.5	04-JUL-07
WG620375-10	MB							
Chloride (Cl)			<0.50		mg/L		0.5	04-JUL-07
WG620375-12	MB							
Chloride (Cl)			<0.50		mg/L		0.5	04-JUL-07
WG620375-4	MB							
Chloride (Cl)			<0.50		mg/L		0.5	04-JUL-07
WG620375-6	MB							
Chloride (Cl)			<0.50		mg/L		0.5	04-JUL-07
WG620375-8	MB							
Chloride (Cl)			<0.50		mg/L		0.5	04-JUL-07
ANIONS-F-IC-VA		Water						
Batch	R543761							
WG620375-13	CRM	VA-ALLT-170088						
Fluoride (F)			101		%		93-107	04-JUL-07
WG620375-2	CRM	VA-ALLT-170088						
Fluoride (F)			102		%		93-107	04-JUL-07
WG620375-3	DUP	L518885-2						
Fluoride (F)		0.067	0.048	J	mg/L	0.019	0.08	04-JUL-07
WG620375-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	04-JUL-07
WG620375-10	MB							
Fluoride (F)			<0.020		mg/L		0.02	04-JUL-07
WG620375-12	MB							
Fluoride (F)			<0.020		mg/L		0.02	04-JUL-07
WG620375-4	MB							
Fluoride (F)			<0.020		mg/L		0.02	04-JUL-07
WG620375-6	MB							
Fluoride (F)			<0.020		mg/L		0.02	04-JUL-07
WG620375-8	MB							
Fluoride (F)			<0.020		mg/L		0.02	04-JUL-07
ANIONS-NO2-IC-VA		Water						

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ANIONS-NO2-IC-VA		Water						
Batch	R543761							
WG620375-13	CRM	VA-ALLT-170088						
Nitrite (as N)			105		%		91-109	04-JUL-07
WG620375-2	CRM	VA-ALLT-170088						
Nitrite (as N)			102		%		91-109	04-JUL-07
WG620375-3	DUP	L518885-2						
Nitrite (as N)		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	04-JUL-07
WG620375-1	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	04-JUL-07
WG620375-10	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	04-JUL-07
WG620375-12	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	04-JUL-07
WG620375-4	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	04-JUL-07
WG620375-6	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	04-JUL-07
WG620375-8	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	04-JUL-07
ANIONS-NO3-IC-VA		Water						
Batch	R543761							
WG620375-13	CRM	VA-ALLT-170088						
Nitrate (as N)			100		%		91-109	04-JUL-07
WG620375-2	CRM	VA-ALLT-170088						
Nitrate (as N)			97		%		91-109	04-JUL-07
WG620375-3	DUP	L518885-2						
Nitrate (as N)		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	04-JUL-07
WG620375-1	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	04-JUL-07
WG620375-10	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	04-JUL-07
WG620375-12	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	04-JUL-07
WG620375-4	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	04-JUL-07
WG620375-6	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	04-JUL-07
WG620375-8	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	04-JUL-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ANIONS-SO4-IC-VA								
	Water							
Batch	R543761							
WG620375-13	CRM	VA-ALLT-170088						
Sulfate (SO4)			103		%		93-107	04-JUL-07
WG620375-2	CRM	VA-ALLT-170088						
Sulfate (SO4)			102		%		93-107	04-JUL-07
WG620375-3	DUP	L518885-2						
Sulfate (SO4)		0.59	0.58	J	mg/L	0.00	2	04-JUL-07
WG620375-1	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	04-JUL-07
WG620375-10	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	04-JUL-07
WG620375-12	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	04-JUL-07
WG620375-4	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	04-JUL-07
WG620375-6	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	04-JUL-07
WG620375-8	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	04-JUL-07
CN-T-MID-HH-COL-VA								
	Water							
Batch	R540659							
WG616508-1	MB							
Cyanide, Total			<0.0050		mg/L		0.005	26-JUN-07
EC-PCT-VA								
	Water							
Batch	R543552							
WG620064-4	DUP	L518885-2						
Conductivity		284	285		uS/cm	0.35	20	04-JUL-07
WG620064-1	MB							
Conductivity			<2.0		uS/cm		2	04-JUL-07
HG-DIS-CVAFS-VA								
	Water							
Batch	R540613							
WG616828-2	CRM	VA-HG-WATRM						
Mercury (Hg)-Dissolved			92		%		88-112	26-JUN-07
WG616306-2	DUP	L518885-1						
Mercury (Hg)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	27-JUN-07
WG616828-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-JUN-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-DIS-CVAFS-VA								
	Water							
Batch	R541378							
WG617785-2	CRM	VA-HG-WATRM						
Mercury (Hg)-Dissolved			109		%		88-112	28-JUN-07
WG617785-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	28-JUN-07
Batch	R542376							
WG616306-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	03-JUL-07
WG616921-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	03-JUL-07
HG-TOT-CVAFS-VA								
	Water							
Batch	R540613							
WG616828-2	CRM	VA-HG-WATRM						
Mercury (Hg)-Total			92		%		88-112	26-JUN-07
WG616828-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	26-JUN-07
Batch	R541378							
WG617785-2	CRM	VA-HG-WATRM						
Mercury (Hg)-Total			109		%		88-112	28-JUN-07
WG617785-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	28-JUN-07
MET-DIS-ICP-VA								
	Water							
Batch	R541065							
WG616306-1	MB							
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	27-JUN-07
Iron (Fe)-Dissolved			<0.030		mg/L		0.03	27-JUN-07
Magnesium (Mg)-Dissolved			<0.10		mg/L		0.1	27-JUN-07
Phosphorus (P)-Dissolved			<0.30		mg/L		0.3	27-JUN-07
Potassium (K)-Dissolved			<2.0		mg/L		2	27-JUN-07
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	27-JUN-07
Sodium (Na)-Dissolved			<2.0		mg/L		2	27-JUN-07
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	27-JUN-07
Batch	R541216							
WG616306-5	CRM	VA-HIGH-WATRM						
Calcium (Ca)-Dissolved			105		%		85-115	27-JUN-07
Iron (Fe)-Dissolved			93		%		90-110	27-JUN-07
Magnesium (Mg)-Dissolved			98		%		85-115	27-JUN-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-ICP-VA								
	Water							
Batch	R541216							
WG616306-5	CRM	VA-HIGH-WATRM						
Phosphorus (P)-Dissolved			99		%		90-110	27-JUN-07
Potassium (K)-Dissolved			101		%		85-115	27-JUN-07
Silicon (Si)-Dissolved			97		%		90-110	27-JUN-07
Sodium (Na)-Dissolved			93		%		85-115	27-JUN-07
Batch	R541805							
WG616921-1	MB							
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	28-JUN-07
Iron (Fe)-Dissolved			<0.030		mg/L		0.03	28-JUN-07
Magnesium (Mg)-Dissolved			<0.10		mg/L		0.1	28-JUN-07
Phosphorus (P)-Dissolved			<0.30		mg/L		0.3	28-JUN-07
Potassium (K)-Dissolved			<2.0		mg/L		2	28-JUN-07
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	28-JUN-07
Sodium (Na)-Dissolved			<2.0		mg/L		2	28-JUN-07
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	28-JUN-07
Batch	R543060							
WG616921-6	CRM	VA-HIGH-WATRM						
Calcium (Ca)-Dissolved			107		%		85-115	03-JUL-07
Iron (Fe)-Dissolved			100		%		90-110	03-JUL-07
Magnesium (Mg)-Dissolved			103		%		85-115	03-JUL-07
Phosphorus (P)-Dissolved			101		%		90-110	03-JUL-07
Potassium (K)-Dissolved			100		%		85-115	03-JUL-07
Silicon (Si)-Dissolved			102		%		90-110	03-JUL-07
Sodium (Na)-Dissolved			101		%		85-115	03-JUL-07
Titanium (Ti)-Dissolved			107		%		90-110	03-JUL-07
MET-DIS-LOW-MS-VA								
	Water							
Batch	R540687							
WG616306-1	MB							
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	26-JUN-07
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	26-JUN-07
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	26-JUN-07
Barium (Ba)-Dissolved			<0.000050		mg/L		0.00005	26-JUN-07
Beryllium (Be)-Dissolved			<0.00050		mg/L		0.0005	26-JUN-07
Bismuth (Bi)-Dissolved			<0.00050		mg/L		0.0005	26-JUN-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-MS-VA								
	Water							
Batch	R540687							
WG616306-1	MB							
Boron (B)-Dissolved			<0.010		mg/L		0.01	26-JUN-07
Cadmium (Cd)-Dissolved			<0.000050		mg/L		0.00005	26-JUN-07
Chromium (Cr)-Dissolved			<0.00050		mg/L		0.0005	26-JUN-07
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	26-JUN-07
Copper (Cu)-Dissolved			<0.00010		mg/L		0.0001	26-JUN-07
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	26-JUN-07
Lithium (Li)-Dissolved			<0.0050		mg/L		0.005	26-JUN-07
Manganese (Mn)-Dissolved			<0.000050		mg/L		0.00005	26-JUN-07
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	26-JUN-07
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	26-JUN-07
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	26-JUN-07
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	26-JUN-07
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	26-JUN-07
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	26-JUN-07
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	26-JUN-07
Vanadium (V)-Dissolved			<0.0010		mg/L		0.001	26-JUN-07
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	26-JUN-07
Batch	R541013							
WG616306-2	DUP	L518885-1						
Aluminum (Al)-Dissolved		0.0065	0.0048	J	mg/L	0.0018	0.004	27-JUN-07
Antimony (Sb)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-07
Arsenic (As)-Dissolved		0.00042	0.00041	J	mg/L	0.00001	0.0004	27-JUN-07
Barium (Ba)-Dissolved		0.0227	0.0225		mg/L	0.80	20	27-JUN-07
Beryllium (Be)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	27-JUN-07
Bismuth (Bi)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	27-JUN-07
Boron (B)-Dissolved		0.010	0.010	J	mg/L	0.000	0.04	27-JUN-07
Cadmium (Cd)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	27-JUN-07
Chromium (Cr)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	27-JUN-07
Cobalt (Co)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-07
Copper (Cu)-Dissolved		0.00032	0.00023	J	mg/L	0.00009	0.0004	27-JUN-07
Lead (Pb)-Dissolved		0.000052	<0.000050	RPD-NA	mg/L	N/A	20	27-JUN-07
Lithium (Li)-Dissolved		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	27-JUN-07
Manganese (Mn)-Dissolved		0.0126	0.0125		mg/L	0.92	20	27-JUN-07

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MET-DIS-LOW-MS-VA								
	Water							
Batch	R541013							
WG616306-2	DUP	L518885-1						
Molybdenum (Mo)-Dissolved		0.000123	0.000115	J	mg/L	0.000008	0.0002	27-JUN-07
Nickel (Ni)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	27-JUN-07
Silver (Ag)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	27-JUN-07
Strontium (Sr)-Dissolved		0.0492	0.0483		mg/L	1.7	20	27-JUN-07
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-07
Tin (Sn)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-07
Uranium (U)-Dissolved		0.000191	0.000185		mg/L	3.4	20	27-JUN-07
Vanadium (V)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	27-JUN-07
Zinc (Zn)-Dissolved		0.0015	<0.0010	RPD-NA	mg/L	N/A	20	27-JUN-07
Batch	R541532							
WG616306-5	CRM	VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			106		%		90-110	28-JUN-07
Antimony (Sb)-Dissolved			100		%		90-110	28-JUN-07
Arsenic (As)-Dissolved			107		%		90-110	28-JUN-07
Barium (Ba)-Dissolved			103		%		90-110	28-JUN-07
Beryllium (Be)-Dissolved			107		%		90-110	28-JUN-07
Bismuth (Bi)-Dissolved			98		%		90-110	28-JUN-07
Boron (B)-Dissolved			106		%		85-115	28-JUN-07
Cadmium (Cd)-Dissolved			100		%		90-110	28-JUN-07
Chromium (Cr)-Dissolved			104		%		90-110	28-JUN-07
Cobalt (Co)-Dissolved			103		%		90-110	28-JUN-07
Copper (Cu)-Dissolved			101		%		90-110	28-JUN-07
Lead (Pb)-Dissolved			101		%		90-110	28-JUN-07
Lithium (Li)-Dissolved			101		%		90-110	28-JUN-07
Manganese (Mn)-Dissolved			103		%		90-110	28-JUN-07
Molybdenum (Mo)-Dissolved			105		%		90-110	28-JUN-07
Nickel (Ni)-Dissolved			103		%		90-110	28-JUN-07
Silver (Ag)-Dissolved			104		%		90-110	28-JUN-07
Strontium (Sr)-Dissolved			103		%		90-110	28-JUN-07
Thallium (Tl)-Dissolved			98		%		85-115	28-JUN-07
Vanadium (V)-Dissolved			103		%		90-110	28-JUN-07
Zinc (Zn)-Dissolved			103		%		85-115	28-JUN-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-MS-VA								
	Water							
Batch	R541792							
WG616921-1	MB							
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	28-JUN-07
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	28-JUN-07
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	28-JUN-07
Barium (Ba)-Dissolved			<0.000050		mg/L		0.00005	28-JUN-07
Beryllium (Be)-Dissolved			<0.00050		mg/L		0.0005	28-JUN-07
Bismuth (Bi)-Dissolved			<0.00050		mg/L		0.0005	28-JUN-07
Boron (B)-Dissolved			<0.010		mg/L		0.01	28-JUN-07
Cadmium (Cd)-Dissolved			<0.000050		mg/L		0.00005	28-JUN-07
Chromium (Cr)-Dissolved			<0.00050		mg/L		0.0005	28-JUN-07
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	28-JUN-07
Copper (Cu)-Dissolved			<0.00010		mg/L		0.0001	28-JUN-07
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	28-JUN-07
Lithium (Li)-Dissolved			<0.0050		mg/L		0.005	28-JUN-07
Manganese (Mn)-Dissolved			<0.000050		mg/L		0.00005	28-JUN-07
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	28-JUN-07
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	28-JUN-07
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	28-JUN-07
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	28-JUN-07
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	28-JUN-07
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	28-JUN-07
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	28-JUN-07
Vanadium (V)-Dissolved			<0.0010		mg/L		0.001	28-JUN-07
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	28-JUN-07
Batch	R542347							
WG616921-6	CRM	VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			104		%		90-110	29-JUN-07
Antimony (Sb)-Dissolved			101		%		90-110	29-JUN-07
Arsenic (As)-Dissolved			102		%		90-110	29-JUN-07
Barium (Ba)-Dissolved			103		%		90-110	29-JUN-07
Beryllium (Be)-Dissolved			99		%		90-110	29-JUN-07
Bismuth (Bi)-Dissolved			97		%		90-110	29-JUN-07
Boron (B)-Dissolved			101		%		85-115	29-JUN-07
Cadmium (Cd)-Dissolved			101		%		90-110	29-JUN-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-MS-VA								
	Water							
Batch	R542347							
WG616921-6	CRM	VA-HIGH-WATRM						
Chromium (Cr)-Dissolved			103		%		90-110	29-JUN-07
Cobalt (Co)-Dissolved			102		%		90-110	29-JUN-07
Copper (Cu)-Dissolved			101		%		90-110	29-JUN-07
Lead (Pb)-Dissolved			100		%		90-110	29-JUN-07
Lithium (Li)-Dissolved			100		%		90-110	29-JUN-07
Manganese (Mn)-Dissolved			102		%		90-110	29-JUN-07
Molybdenum (Mo)-Dissolved			104		%		90-110	29-JUN-07
Nickel (Ni)-Dissolved			104		%		90-110	29-JUN-07
Silver (Ag)-Dissolved			100		%		90-110	29-JUN-07
Strontium (Sr)-Dissolved			103		%		90-110	29-JUN-07
Thallium (Tl)-Dissolved			96		%		85-115	29-JUN-07
Uranium (U)-Dissolved			108		%		90-110	29-JUN-07
Vanadium (V)-Dissolved			105		%		90-110	29-JUN-07
Zinc (Zn)-Dissolved			102		%		85-115	29-JUN-07
MET-TOT-ICP-VA								
	Water							
Batch	R538349							
WG612545-2	CRM	VA-HIGH-WATRM						
Calcium (Ca)-Total			104		%		85-115	21-JUN-07
Iron (Fe)-Total			99		%		90-110	21-JUN-07
Magnesium (Mg)-Total			102		%		85-115	21-JUN-07
Phosphorus (P)-Total			99		%		90-110	21-JUN-07
Potassium (K)-Total			96		%		85-115	21-JUN-07
Silicon (Si)-Total			94		%		90-110	21-JUN-07
Sodium (Na)-Total			96		%		85-115	21-JUN-07
Titanium (Ti)-Total			104		%		90-110	21-JUN-07
WG612545-1	MB							
Calcium (Ca)-Total			<0.050		mg/L		0.05	21-JUN-07
Iron (Fe)-Total			<0.030		mg/L		0.03	21-JUN-07
Magnesium (Mg)-Total			<0.10		mg/L		0.1	21-JUN-07
Phosphorus (P)-Total			<0.30		mg/L		0.3	21-JUN-07
Potassium (K)-Total			<2.0		mg/L		2	21-JUN-07
Silicon (Si)-Total			<0.050		mg/L		0.05	21-JUN-07
Sodium (Na)-Total			<2.0		mg/L		2	21-JUN-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TOT-ICP-VA								
	Water							
Batch	R538349							
WG612545-1	MB							
Titanium (Ti)-Total			<0.010		mg/L		0.01	21-JUN-07
Batch	R540579							
WG612545-3	DUP	L518885-6						
Calcium (Ca)-Total		45.1	44.8		mg/L	0.62	20	26-JUN-07
Iron (Fe)-Total		0.262	0.267	J	mg/L	0.005	0.12	26-JUN-07
Magnesium (Mg)-Total		21.9	21.8		mg/L	0.094	20	26-JUN-07
Phosphorus (P)-Total		<0.30	<0.30	RPD-NA	mg/L	N/A	20	26-JUN-07
Potassium (K)-Total		<2.0	<2.0	RPD-NA	mg/L	N/A	20	26-JUN-07
Silicon (Si)-Total		2.75	2.75		mg/L	0.17	20	26-JUN-07
Sodium (Na)-Total		5.3	5.4	J	mg/L	0.0	8	26-JUN-07
Titanium (Ti)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	26-JUN-07
WG612855-5	DUP	L518885-9						
Calcium (Ca)-Total		29.6	29.9		mg/L	0.93	20	26-JUN-07
Iron (Fe)-Total		1.45	1.42		mg/L	2.6	20	26-JUN-07
Magnesium (Mg)-Total		22.4	22.4		mg/L	0.23	20	26-JUN-07
Phosphorus (P)-Total		<0.30	<0.30	RPD-NA	mg/L	N/A	20	26-JUN-07
Potassium (K)-Total		<2.0	<2.0	RPD-NA	mg/L	N/A	20	26-JUN-07
Silicon (Si)-Total		5.67	5.52		mg/L	2.6	20	26-JUN-07
Sodium (Na)-Total		3.1	3.1	J	mg/L	0.0	8	26-JUN-07
Titanium (Ti)-Total		0.065	0.062	J	mg/L	0.003	0.04	26-JUN-07
Batch	R540669							
WG612855-2	CRM	VA-HIGH-WATRM						
Calcium (Ca)-Total			102		%		85-115	26-JUN-07
Iron (Fe)-Total			101		%		90-110	26-JUN-07
Magnesium (Mg)-Total			101		%		85-115	26-JUN-07
Phosphorus (P)-Total			102		%		90-110	26-JUN-07
Potassium (K)-Total			99		%		85-115	26-JUN-07
Silicon (Si)-Total			100		%		90-110	26-JUN-07
Sodium (Na)-Total			99		%		85-115	26-JUN-07
Titanium (Ti)-Total			108		%		90-110	26-JUN-07
WG612855-1	MB							
Calcium (Ca)-Total			<0.050		mg/L		0.05	26-JUN-07
Iron (Fe)-Total			<0.030		mg/L		0.03	26-JUN-07

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MET-TOT-ICP-VA								
	Water							
Batch	R541805							
WG616880-1	MB							
Calcium (Ca)-Total			<0.050		mg/L		0.05	28-JUN-07
Iron (Fe)-Total			<0.030		mg/L		0.03	28-JUN-07
Magnesium (Mg)-Total			<0.10		mg/L		0.1	28-JUN-07
Phosphorus (P)-Total			<0.30		mg/L		0.3	28-JUN-07
Potassium (K)-Total			<2.0		mg/L		2	28-JUN-07
Silicon (Si)-Total			<0.050		mg/L		0.05	28-JUN-07
Sodium (Na)-Total			<2.0		mg/L		2	28-JUN-07
Titanium (Ti)-Total			<0.010		mg/L		0.01	28-JUN-07
MET-TOT-LOW-MS-VA								
	Water							
Batch	R537469							
WG612545-1	MB							
Aluminum (Al)-Total			<0.0010		mg/L		0.001	19-JUN-07
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	19-JUN-07
Arsenic (As)-Total			<0.00010		mg/L		0.0001	19-JUN-07
Barium (Ba)-Total			<0.000050		mg/L		0.00005	19-JUN-07
Beryllium (Be)-Total			<0.00050		mg/L		0.0005	19-JUN-07
Bismuth (Bi)-Total			<0.00050		mg/L		0.0005	19-JUN-07
Boron (B)-Total			<0.010		mg/L		0.01	19-JUN-07
Cadmium (Cd)-Total			<0.000050		mg/L		0.00005	19-JUN-07
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	19-JUN-07
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	19-JUN-07
Copper (Cu)-Total			<0.00010		mg/L		0.0001	19-JUN-07
Lead (Pb)-Total			<0.000050		mg/L		0.00005	19-JUN-07
Lithium (Li)-Total			<0.0050		mg/L		0.005	19-JUN-07
Manganese (Mn)-Total			<0.000050		mg/L		0.00005	19-JUN-07
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	19-JUN-07
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	19-JUN-07
Silver (Ag)-Total			<0.000010		mg/L		0.00001	19-JUN-07
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	19-JUN-07
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	19-JUN-07
Tin (Sn)-Total			<0.00010		mg/L		0.0001	19-JUN-07
Uranium (U)-Total			<0.000010		mg/L		0.00001	19-JUN-07
Vanadium (V)-Total			<0.0010		mg/L		0.001	19-JUN-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TOT-LOW-MS-VA								
	Water							
Batch	R537469							
WG612545-1	MB							
Zinc (Zn)-Total			<0.0010		mg/L		0.001	19-JUN-07
Batch	R537916							
WG612855-1	MB							
Aluminum (Al)-Total			0.0013	A	mg/L		0.001	20-JUN-07
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	20-JUN-07
Arsenic (As)-Total			<0.00010		mg/L		0.0001	20-JUN-07
Barium (Ba)-Total			0.000053	A	mg/L		0.00005	20-JUN-07
Beryllium (Be)-Total			<0.00050		mg/L		0.0005	20-JUN-07
Bismuth (Bi)-Total			<0.00050		mg/L		0.0005	20-JUN-07
Boron (B)-Total			<0.010		mg/L		0.01	20-JUN-07
Cadmium (Cd)-Total			<0.000050		mg/L		0.00005	20-JUN-07
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	20-JUN-07
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	20-JUN-07
Copper (Cu)-Total			0.00032	A	mg/L		0.0001	20-JUN-07
Lead (Pb)-Total			0.000058	A	mg/L		0.00005	20-JUN-07
Lithium (Li)-Total			<0.0050		mg/L		0.005	20-JUN-07
Manganese (Mn)-Total			0.000063	A	mg/L		0.00005	20-JUN-07
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	20-JUN-07
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	20-JUN-07
Silver (Ag)-Total			<0.000010		mg/L		0.00001	20-JUN-07
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	20-JUN-07
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	20-JUN-07
Tin (Sn)-Total			0.00011	A	mg/L		0.0001	20-JUN-07
Uranium (U)-Total			<0.000010		mg/L		0.00001	20-JUN-07
Vanadium (V)-Total			<0.0010		mg/L		0.001	20-JUN-07
Zinc (Zn)-Total			0.0023	A	mg/L		0.001	20-JUN-07
Batch	R538112							
WG612545-2	CRM	VA-HIGH-WATRM						
Aluminum (Al)-Total			100		%		90-110	20-JUN-07
Antimony (Sb)-Total			97		%		90-110	20-JUN-07
Arsenic (As)-Total			101		%		90-110	20-JUN-07
Barium (Ba)-Total			100		%		90-110	20-JUN-07

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MET-TOT-LOW-MS-VA	Water							
Batch	R538112							
WG612545-2 CRM		VA-HIGH-WATRM						
Beryllium (Be)-Total			103		%		90-110	20-JUN-07
Bismuth (Bi)-Total			98		%		90-110	20-JUN-07
Boron (B)-Total			104		%		85-115	20-JUN-07
Cadmium (Cd)-Total			99		%		90-110	20-JUN-07
Chromium (Cr)-Total			99		%		90-110	20-JUN-07
Cobalt (Co)-Total			101		%		90-110	20-JUN-07
Copper (Cu)-Total			97		%		90-110	20-JUN-07
Lead (Pb)-Total			99		%		90-110	20-JUN-07
Lithium (Li)-Total			99		%		90-110	20-JUN-07
Manganese (Mn)-Total			100		%		90-110	20-JUN-07
Molybdenum (Mo)-Total			104		%		90-110	20-JUN-07
Nickel (Ni)-Total			101		%		90-110	20-JUN-07
Silver (Ag)-Total			100		%		90-110	20-JUN-07
Strontium (Sr)-Total			101		%		90-110	20-JUN-07
Thallium (Tl)-Total			98		%		85-115	20-JUN-07
Uranium (U)-Total			103		%		90-110	20-JUN-07
Vanadium (V)-Total			103		%		90-110	20-JUN-07
Zinc (Zn)-Total			103		%		85-115	20-JUN-07
Batch	R538996							
WG612855-2 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Total			105		%		90-110	22-JUN-07
Antimony (Sb)-Total			99		%		90-110	22-JUN-07
Arsenic (As)-Total			100		%		90-110	22-JUN-07
Barium (Ba)-Total			98		%		90-110	22-JUN-07
Beryllium (Be)-Total			105		%		90-110	22-JUN-07
Bismuth (Bi)-Total			98		%		90-110	22-JUN-07
Boron (B)-Total			103		%		85-115	22-JUN-07
Cadmium (Cd)-Total			98		%		90-110	22-JUN-07
Chromium (Cr)-Total			101		%		90-110	22-JUN-07
Cobalt (Co)-Total			99		%		90-110	22-JUN-07
Copper (Cu)-Total			97		%		90-110	22-JUN-07
Lead (Pb)-Total			99		%		90-110	22-JUN-07
Lithium (Li)-Total			100		%		90-110	22-JUN-07

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MET-TOT-LOW-MS-VA	Water							
Batch	R538996							
WG612855-2 CRM		VA-HIGH-WATRM						
Manganese (Mn)-Total			97		%		90-110	22-JUN-07
Molybdenum (Mo)-Total			101		%		90-110	22-JUN-07
Nickel (Ni)-Total			98		%		90-110	22-JUN-07
Silver (Ag)-Total			99		%		90-110	22-JUN-07
Strontium (Sr)-Total			101		%		90-110	22-JUN-07
Thallium (Tl)-Total			98		%		85-115	22-JUN-07
Uranium (U)-Total			107		%		90-110	22-JUN-07
Vanadium (V)-Total			101		%		90-110	22-JUN-07
Zinc (Zn)-Total			102		%		85-115	22-JUN-07
Batch	R540687							
WG616264-1 MB								
Aluminum (Al)-Total			<0.0010		mg/L		0.001	26-JUN-07
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	26-JUN-07
Arsenic (As)-Total			<0.00010		mg/L		0.0001	26-JUN-07
Barium (Ba)-Total			<0.000050		mg/L		0.00005	26-JUN-07
Beryllium (Be)-Total			<0.00050		mg/L		0.0005	26-JUN-07
Bismuth (Bi)-Total			<0.00050		mg/L		0.0005	26-JUN-07
Boron (B)-Total			<0.010		mg/L		0.01	26-JUN-07
Cadmium (Cd)-Total			<0.000050		mg/L		0.00005	26-JUN-07
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	26-JUN-07
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	26-JUN-07
Copper (Cu)-Total			<0.00010		mg/L		0.0001	26-JUN-07
Lead (Pb)-Total			<0.000050		mg/L		0.00005	26-JUN-07
Lithium (Li)-Total			<0.0050		mg/L		0.005	26-JUN-07
Manganese (Mn)-Total			<0.000050		mg/L		0.00005	26-JUN-07
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	26-JUN-07
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	26-JUN-07
Silver (Ag)-Total			<0.000010		mg/L		0.00001	26-JUN-07
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	26-JUN-07
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	26-JUN-07
Tin (Sn)-Total			<0.00010		mg/L		0.0001	26-JUN-07
Uranium (U)-Total			<0.000010		mg/L		0.00001	26-JUN-07
Vanadium (V)-Total			<0.0010		mg/L		0.001	26-JUN-07

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MET-TOT-LOW-MS-VA								
	Water							
Batch	R540687							
WG616264-1	MB							
Zinc (Zn)-Total			<0.0010		mg/L		0.001	26-JUN-07
Batch	R541013							
WG612545-3	DUP	L518885-6						
Aluminum (Al)-Total		0.185	0.189		mg/L	2.1	20	27-JUN-07
Antimony (Sb)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-07
Arsenic (As)-Total		0.00061	0.00062	J	mg/L	0.00002	0.0004	27-JUN-07
Barium (Ba)-Total		0.0269	0.0273		mg/L	1.4	20	27-JUN-07
Beryllium (Be)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	27-JUN-07
Bismuth (Bi)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	27-JUN-07
Boron (B)-Total		0.020	0.020	J	mg/L	0.000	0.04	27-JUN-07
Cadmium (Cd)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	27-JUN-07
Chromium (Cr)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	27-JUN-07
Cobalt (Co)-Total		0.00015	0.00015	J	mg/L	0.00000	0.0004	27-JUN-07
Copper (Cu)-Total		0.00055	0.00057	J	mg/L	0.00002	0.0004	27-JUN-07
Lead (Pb)-Total		0.000095	0.000104	J	mg/L	0.000010	0.0002	27-JUN-07
Lithium (Li)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	27-JUN-07
Manganese (Mn)-Total		0.0464	0.0473		mg/L	1.9	20	27-JUN-07
Molybdenum (Mo)-Total		0.000170	0.000165	J	mg/L	0.000006	0.0002	27-JUN-07
Nickel (Ni)-Total		0.00055	0.00062	J	mg/L	0.00007	0.002	27-JUN-07
Silver (Ag)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	27-JUN-07
Strontium (Sr)-Total		0.0718	0.0727		mg/L	1.3	20	27-JUN-07
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-07
Tin (Sn)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-07
Uranium (U)-Total		0.000210	0.000223		mg/L	5.8	20	27-JUN-07
Vanadium (V)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	27-JUN-07
Zinc (Zn)-Total		0.0011	0.0013	J	mg/L	0.0002	0.004	27-JUN-07
WG612855-5	DUP	L518885-9						
Aluminum (Al)-Total		1.94	1.88		mg/L	3.2	20	27-JUN-07
Antimony (Sb)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-07
Arsenic (As)-Total		0.00075	0.00075	J	mg/L	0.00000	0.0004	27-JUN-07
Barium (Ba)-Total		0.0300	0.0296		mg/L	1.4	20	27-JUN-07
Beryllium (Be)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	27-JUN-07

ALS Laboratory Group Quality Control Report

Workorder: L518885

Report Date: 10-JUL-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TOT-LOW-MS-VA								
	Water							
Batch	R541013							
WG612855-5	DUP	L518885-9						
Bismuth (Bi)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	27-JUN-07
Boron (B)-Total		0.012	0.012	J	mg/L	0.000	0.04	27-JUN-07
Cadmium (Cd)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	27-JUN-07
Chromium (Cr)-Total		0.00298	0.00296	J	mg/L	0.00002	0.002	27-JUN-07
Cobalt (Co)-Total		0.00072	0.00075	J	mg/L	0.00003	0.0004	27-JUN-07
Copper (Cu)-Total		0.00183	0.00195		mg/L	6.4	20	27-JUN-07
Lead (Pb)-Total		0.000707	0.000720		mg/L	1.7	20	27-JUN-07
Lithium (Li)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	27-JUN-07
Manganese (Mn)-Total		0.0437	0.0446		mg/L	2.1	20	27-JUN-07
Molybdenum (Mo)-Total		0.000116	0.000118	J	mg/L	0.000001	0.0002	27-JUN-07
Nickel (Ni)-Total		0.00223	0.00231	J	mg/L	0.00008	0.002	27-JUN-07
Silver (Ag)-Total		0.000012	0.000011	J	mg/L	0.000001	0.00004	27-JUN-07
Strontium (Sr)-Total		0.0401	0.0406		mg/L	1.2	20	27-JUN-07
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUN-07
Tin (Sn)-Total		<0.00030	<0.00030	RPD-NA	mg/L	N/A	20	27-JUN-07
Uranium (U)-Total		0.000263	0.000268		mg/L	1.9	20	27-JUN-07
Vanadium (V)-Total		0.0032	0.0032	J	mg/L	0.0000	0.004	27-JUN-07
Zinc (Zn)-Total		<0.0070	<0.0070	RPD-NA	mg/L	N/A	20	27-JUN-07
Batch	R541532							
WG616264-5	CRM	VA-HIGH-WATRM						
Aluminum (Al)-Total			105		%		90-110	28-JUN-07
Antimony (Sb)-Total			99		%		90-110	28-JUN-07
Arsenic (As)-Total			106		%		90-110	28-JUN-07
Barium (Ba)-Total			103		%		90-110	28-JUN-07
Beryllium (Be)-Total			104		%		90-110	28-JUN-07
Bismuth (Bi)-Total			99		%		90-110	28-JUN-07
Boron (B)-Total			108		%		85-115	28-JUN-07
Cadmium (Cd)-Total			100		%		90-110	28-JUN-07
Chromium (Cr)-Total			102		%		90-110	28-JUN-07
Cobalt (Co)-Total			103		%		90-110	28-JUN-07
Copper (Cu)-Total			101		%		90-110	28-JUN-07
Lead (Pb)-Total			102		%		90-110	28-JUN-07
Lithium (Li)-Total			104		%		90-110	28-JUN-07

ALS Laboratory Group Quality Control Report

Workorder: L518885

Report Date: 10-JUL-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TOT-LOW-MS-VA	Water							
Batch	R541532							
WG616264-5 CRM		VA-HIGH-WATRM						
Manganese (Mn)-Total			102		%		90-110	28-JUN-07
Molybdenum (Mo)-Total			107		%		90-110	28-JUN-07
Nickel (Ni)-Total			103		%		90-110	28-JUN-07
Silver (Ag)-Total			104		%		90-110	28-JUN-07
Strontium (Sr)-Total			105		%		90-110	28-JUN-07
Thallium (Tl)-Total			99		%		85-115	28-JUN-07
Vanadium (V)-Total			103		%		90-110	28-JUN-07
Zinc (Zn)-Total			103		%		85-115	28-JUN-07
Batch	R541792							
WG616880-1 MB								
Aluminum (Al)-Total			<0.0060		mg/L		0.006	28-JUN-07
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	28-JUN-07
Arsenic (As)-Total			<0.00010		mg/L		0.0001	28-JUN-07
Barium (Ba)-Total			<0.000050		mg/L		0.00005	28-JUN-07
Beryllium (Be)-Total			<0.00050		mg/L		0.0005	28-JUN-07
Bismuth (Bi)-Total			<0.00050		mg/L		0.0005	28-JUN-07
Boron (B)-Total			<0.010		mg/L		0.01	28-JUN-07
Cadmium (Cd)-Total			<0.000050		mg/L		0.00005	28-JUN-07
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	28-JUN-07
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	28-JUN-07
Copper (Cu)-Total			<0.00010		mg/L		0.0001	28-JUN-07
Lead (Pb)-Total			<0.000050		mg/L		0.00005	28-JUN-07
Lithium (Li)-Total			<0.0050		mg/L		0.005	28-JUN-07
Manganese (Mn)-Total			<0.000050		mg/L		0.00005	28-JUN-07
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	28-JUN-07
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	28-JUN-07
Silver (Ag)-Total			<0.000010		mg/L		0.00001	28-JUN-07
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	28-JUN-07
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	28-JUN-07
Tin (Sn)-Total			<0.00010		mg/L		0.0001	28-JUN-07
Uranium (U)-Total			<0.000010		mg/L		0.00001	28-JUN-07
Vanadium (V)-Total			<0.0010		mg/L		0.001	28-JUN-07
Zinc (Zn)-Total			<0.0010		mg/L		0.001	28-JUN-07

ALS Laboratory Group Quality Control Report

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-SIE-VA		Water						
Batch	R540700							
WG617132-2	CRM	VA-SPXNUT-22-16	96		%		86-114	26-JUN-07
	Ammonia as N							
WG617132-3	DUP	L518885-2	<0.020	RPD-NA	mg/L	N/A	20	26-JUN-07
	Ammonia as N							
WG617132-1	MB		<0.020		mg/L		0.02	26-JUN-07
	Ammonia as N							
PH-PCT-VA		Water						
Batch	R543552							
WG620064-4	DUP	L518885-2	8.08		pH	0.099	20	04-JUL-07
	pH							
WG620064-1	MB		5.37	A	pH		0.01	04-JUL-07
	pH							
SE-DIS-HVAAS-VA		Water						
Batch	R541090							
WG616306-5	CRM	VA-HIGH-WATRM	104		%		90-110	27-JUN-07
	Selenium (Se)-Dissolved							
WG616306-1	MB		<0.00050		mg/L		0.0005	27-JUN-07
	Selenium (Se)-Dissolved							
Batch	R541154							
WG616306-2	DUP	L518885-1	<0.00050	RPD-NA	mg/L	N/A	20	27-JUN-07
	Selenium (Se)-Dissolved							
Batch	R543129							
WG616921-6	CRM	VA-HIGH-WATRM	103		%		90-110	03-JUL-07
	Selenium (Se)-Dissolved							
WG616921-1	MB		<0.00050		mg/L		0.0005	03-JUL-07
	Selenium (Se)-Dissolved							
SE-TOT-HVAAS-VA		Water						
Batch	R540401							
WG612545-2	CRM	VA-HIGH-WATRM	100		%		90-110	26-JUN-07
	Selenium (Se)-Total							
WG612545-1	MB		<0.00050		mg/L		0.0005	26-JUN-07
	Selenium (Se)-Total							
Batch	R541095							
WG612855-2	CRM	VA-HIGH-WATRM	101		%		90-110	27-JUN-07
	Selenium (Se)-Total							
WG616264-5	CRM	VA-HIGH-WATRM						

ALS Laboratory Group Quality Control Report

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SE-TOT-HVAAS-VA								
Water								
Batch	R541095							
WG616264-5	CRM	VA-HIGH-WATRM						
Selenium (Se)-Total			92		%		90-110	27-JUN-07
WG612855-1	MB		<0.00050		mg/L		0.0005	27-JUN-07
Selenium (Se)-Total								
WG616264-1	MB		<0.00050		mg/L		0.0005	27-JUN-07
Selenium (Se)-Total								
Batch	R541154							
WG612545-3	DUP	L518885-6						
Selenium (Se)-Total		0.00061	<0.00050	RPD-NA	mg/L	N/A	20	27-JUN-07
Batch	R543129							
WG616880-6	CRM	VA-HIGH-WATRM						
Selenium (Se)-Total			102		%		90-110	03-JUL-07
Batch	R543669							
WG616880-1	MB		<0.00050		mg/L		0.0005	04-JUL-07
Selenium (Se)-Total								
TDS-VA								
Water								
Batch	R543680							
WG620163-3	DUP	L518885-1						
Total Dissolved Solids		184	177		mg/L	3.9	20	04-JUL-07
WG620163-1	MB		<10		mg/L		10	04-JUL-07
Total Dissolved Solids								
TKN-COL-VA								
Water								
Batch	R541100							
WG617594-2	CRM	VA-TKN-CSPK1						
Total Kjeldahl Nitrogen			97		%		85-115	27-JUN-07
WG617594-1	MB		<0.050		mg/L		0.05	27-JUN-07
Total Kjeldahl Nitrogen								
TSS-VA								
Water								
Batch	R543476							
WG620361-3	DUP	L518885-1						
Total Suspended Solids		<3.0	<3.0	RPD-NA	mg/L	N/A	25	04-JUL-07
WG620361-1	MB		<3.0		mg/L		3	04-JUL-07
Total Suspended Solids								
TURBIDITY-VA								
Water								

ALS Laboratory Group Quality Control Report

Workorder: L518885

Report Date: 10-JUL-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TURBIDITY-VA								
	Water							
Batch	R543305							
WG620327-2	CRM	VA-TURB-SPK-8						
Turbidity			99		%		85-115	03-JUL-07
WG620327-6	DUP	L518885-10						
Turbidity		0.70	0.77	J	NTU	0.070	0.4	03-JUL-07
WG620327-1	MB							
Turbidity			<0.10		NTU		0.1	03-JUL-07

ALS Laboratory Group Quality Control Report

Workorder: L518885

Report Date: 10-JUL-07

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Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Qualifier:

RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.
A	Method blank exceeds acceptance limit. Blank correction not applied, unless the qualifier "RAMB" (result adjusted for method blank) appears in the Analytical Report.
B	Method blank result exceeds acceptance limit, however, it is less than 5% of sample concentration. Blank correction not applied.
E	Matrix spike recovery may fall outside the acceptance limits due to high sample background.
F	Silver recovery low, likely due to elevated chloride levels in sample.
G	Outlier - No assignable cause for nonconformity has been determined.
J	Duplicate results and limit(s) are expressed in terms of absolute difference.
K	The sample referenced above is of a non-standard matrix type; standard QC acceptance criteria may not be achievable.
L	Low matrix spike recovery due to instability of spiked analyte in the sample matrix.

SRC ANALYTICAL**L7.5-228**

Jul 06, 2007

422 Downey Road

Saskatoon, Saskatchewan, Canada

S7N 4N1

(306) 933-6932 or 1-800-240-8808

Fax: (306) 933-7922

ALS

Aurora Laboratory Services Ltd.

1988 Triumph Street

Vancouver, British Columbia V5L 1K5

Attn: Amber Springer

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Sample # **18226**
 Date Sampled: **Jun 12, 2007**
 Sample Matrix: **WATER**
 Description: **L518885-1 OCW-1**

Client PO #: **LW10817**
 Date Received: **Jun 19, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Jul 05, 2007

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-229**

Jul 06, 2007

Sample # **18227**
Date Sampled: **Jun 12, 2007**
Sample Matrix: **WATER**
Description: **L518885-2 OCW-2**

Client PO #: **LW10817**
Date Received: **Jun 19, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Jul 05, 2007

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-230** Jul 06, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **18228**
Date Sampled: **Jun 12, 2007**
Sample Matrix: **WATER**
Description: **L518885-3 OCW-3**

Client PO #: **LW10817**
Date Received: **Jun 19, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Jul 05, 2007

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-231** Jul 06, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **18229**
Date Sampled: **Jun 13, 2007**
Sample Matrix: **WATER**
Description: **L518885-4 HRW1**

Client PO #: **LW10817**
Date Received: **Jun 19, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.005	0.005	Jul 05, 2007

SRC ANALYTICALL7.5-232

Jul 06, 2007

Sample # **18230**
Date Sampled: **Jun 13, 2007**
Sample Matrix: **WATER**
Description: **L518885-5 MRW1**

Client PO #: **LW10817**
Date Received: **Jun 19, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Jul 05, 2007

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-233** Jul 06, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **18231**
Date Sampled: **Jun 13, 2007**
Sample Matrix: **WATER**
Description: **L518885-6 MRW2**

Client PO #: **LW10817**
Date Received: **Jun 19, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.007	0.005	Jul 05, 2007

SRC ANALYTICAL**L7.5-234** Jul 06, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **18232**
Date Sampled: **Jun 14, 2007**
Sample Matrix: **WATER**
Description: **L518885-7 MRW3**

Client PO #: **LW10817**
Date Received: **Jun 19, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Jul 05, 2007

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-235** Jul 06, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **18233**
Date Sampled: **Jun 13, 2007**
Sample Matrix: **WATER**
Description: **L518885-8 WRW1**

Client PO #: **LW10817**
Date Received: **Jun 19, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Jul 05, 2007

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-236** Jul 06, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **18234**
Date Sampled: **Jun 13, 2007**
Sample Matrix: **WATER**
Description: **L518885-9 WRW2**

Client PO #: **LW10817**
Date Received: **Jun 19, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Jul 05, 2007

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-237** Jul 06, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **18235**
Date Sampled: **Jun 12, 2007**
Sample Matrix: **WATER**
Description: **L518885-10 DUP1**

Client PO #: **LW10817**
Date Received: **Jun 19, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.006	0.005	Jul 05, 2007



Environmental Division

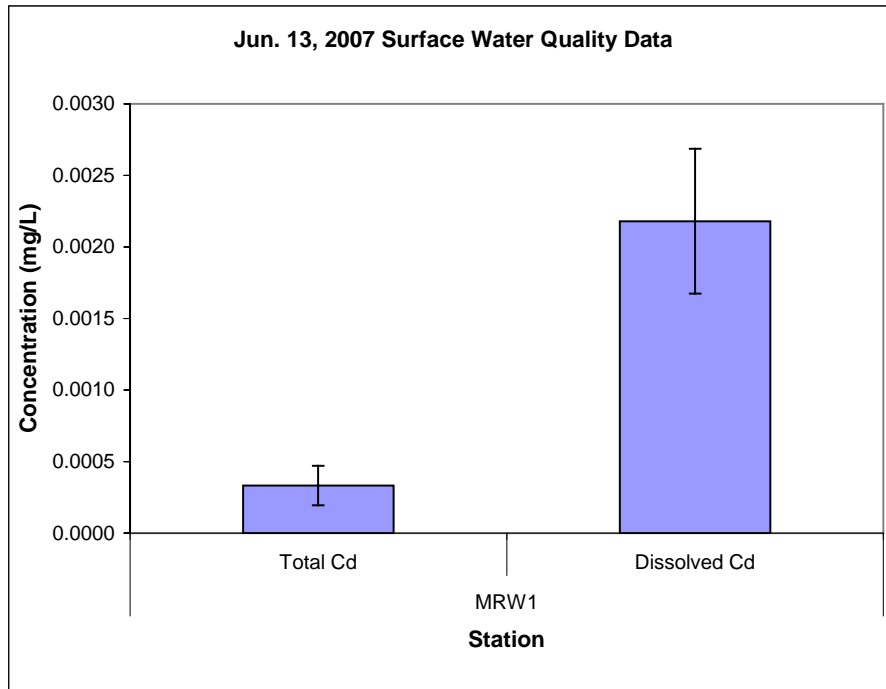
259 8885

REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY: URS		STANDARD <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		<input checked="" type="checkbox"/> REGULAR SERVICE (DEFAULT)	
CONTACT: Kath-Montgomery@urscorp.com		PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> CUSTOM <input type="checkbox"/> FAX <input type="checkbox"/>		<input type="checkbox"/> RUSH SERVICE (2-3 DAYS)	
ADDRESS: 650 West Georgia St		EMAIL 1: James-phibbs@urscorp.com		<input type="checkbox"/> PRIORITY SERVICE (1 DAY or ASAP)	
PHONE: 604 6811672 FAX: 604 6873446		EMAIL 2:		<input type="checkbox"/> EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
INVOICE TO: SAME AS REPORT ? (YES) NO		INDICATE BOTTLES ALTERED / PRESERVED (F/P)		ANALYSIS REQUEST	
COMPANY:		CLIENT / PROJECT INFORMATION:			
CONTACT:		JOB #: 36548527			
ADDRESS:		PO / AFE:			
PHONE:		Legal Site Description: Mnago			
FAX:		QUOTE #:			
Lab Work Order # (lab use only)		SAMPLER (Initials):		SP	
SAMPLE IDENTIFICATION (This description will appear on the report)		DATE		TIME	
OCW1		June 12 2007		AM	
OCW2		12		PM	
OCW3		12		PM	
HRW1		13		PM	
MRW1		13		PM	
MRW2		13		PM	
MRW3		14		AM	
WRW1		13		AM	
WRW2		13		AM	
DVP1		12		AM	
SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS			
GUIDELINES / REGULATIONS		HAZARDOUS ?			
		HIGHLY CONTAMINATED ?			
		NUMBER OF CONTAINERS			

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

RELINQUISHED BY: **[Signature]** DATE & TIME: **06/15/07** RECEIVED BY: **R. Weeks** DATE & TIME: **07/06/15 18:00** TEMPERATURE: **11°C** SAMPLE CONDITION (list use only) SAMPLES RECEIVED IN GOOD CONDITION? YES / NO

**June 13, 2007 Minago Surface Water Quality Data
for which the measured Dissolved concentration was higher than the Total concentration**



APPENDIX L7.5-K

Certified Laboratory Reports for Surface Water Quality

July 2007 Results



Environmental Division

ANALYTICAL REPORT

URS CANADA INC.

ATTN: KEITH MOUNTJOY

P.O. BOX 11507
1900 - 650 WEST GEORGIA STREET
VANCOUVER BC V6B 4N7

Reported On: 14-AUG-07 02:28 PM

Revision: 1

Lab Work Order #: L532666

Date Received: 20-JUL-07

Project P.O. #: JERRY HOLZBECHER

Job Reference: 39548827

Legal Site Desc:

CofC Numbers: A005522

Other Information:

Comments:

Timothy Guy Crowther
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Jerry Holzbecher

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

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ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L532666-1	L532666-2	L532666-3	L532666-4	L532666-5
		Description					
		Sampled Date	15-JUL-07	15-JUL-07	16-JUL-07	16-JUL-07	17-JUL-07
		Sampled Time					
		Client ID	OCW2	OCW3	WRW1=WRW2x	WRW2=WRW1x	MRW2
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		195	173	190	123	192
	Conductivity (uS/cm)		291	258	291	199	302
	pH (pH)		7.94	7.89	8.18	8.00	7.94
	Total Dissolved Solids (mg/L)		197	175	181	150	206
	Total Suspended Solids (mg/L)		<3.0	<3.0	29.9	18.9	4.9
	Turbidity (NTU)		0.41	0.24	20.6	14.1	2.18
Anions and Nutrients	Ammonia as N (mg/L)		<0.020	0.021	0.022	<0.020	0.022
	Acidity (as CaCO3) (mg/L)		2.9	2.9	1.1	1.8	3.1
	Alkalinity, Total (as CaCO3) (mg/L)		164	144	160	108	167
	Bromide (Br) (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Chloride (Cl) (mg/L)		<0.50	<0.50	1.06	0.62	0.56
	Fluoride (F) (mg/L)		0.077	0.068	0.089	0.066	0.080
	Sulfate (SO4) (mg/L)		<0.50	<0.50	1.93	0.55	0.65
	Nitrate (as N) (mg/L)		<0.0050	0.0070	<0.0050	<0.0050	<0.0050
	Nitrite (as N) (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Total Kjeldahl Nitrogen (mg/L)		0.479	0.430	0.404	0.538	0.546
	Total Nitrogen (mg/L)		0.479	0.437	0.404	0.538	0.546
Cyanides	Cyanide, Total (mg/L)		0.0072	0.0110	0.0099	0.0109	0.0140
Total Metals	Aluminum (Al)-Total (mg/L)		0.0159	0.0032	0.543	0.383	0.0470
	Antimony (Sb)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	0.00015
	Arsenic (As)-Total (mg/L)		0.00043	0.00038	0.00071	0.00080	0.00081
	Barium (Ba)-Total (mg/L)		0.0241	0.0184	0.0242	0.0160	0.0213
	Beryllium (Be)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bismuth (Bi)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)		0.012	<0.010	0.013	<0.010	0.015
	Cadmium (Cd)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Calcium (Ca)-Total (mg/L)		40.7	40.7	32.2	24.8	44.9
	Chromium (Cr)-Total (mg/L)		<0.00050	<0.00050	0.00119	0.00078	<0.00050
	Cobalt (Co)-Total (mg/L)		<0.00010	<0.00010	0.00039	0.00028	<0.00010
	Copper (Cu)-Total (mg/L)		<0.00030	0.00042	0.00138	0.00166	<0.00090
	Iron (Fe)-Total (mg/L)		0.076	0.065	0.657	0.492	0.165
	Lead (Pb)-Total (mg/L)		<0.000050	<0.000050	0.000407	0.000310	0.000333
	Lithium (Li)-Total (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Total (mg/L)		18.1	17.7	24.9	15.1	19.6
	Manganese (Mn)-Total (mg/L)		0.00888	0.00322	0.0247	0.0328	0.0164
	Mercury (Hg)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Total (mg/L)		0.000064	<0.000050	0.000090	0.000062	0.000115
	Nickel (Ni)-Total (mg/L)		<0.00050	0.00210	0.00215	0.00641	0.00592
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30

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		Sample ID	L532666-6	L532666-7	L532666-8	L532666-9	L532666-10
		Description					
		Sampled Date	17-JUL-07	18-JUL-07	18-JUL-07	18-JUL-07	18-JUL-07
		Sampled Time					
		Client ID	MRW3	OCW1	HRW1	MRW1	JULY DUP1 of MRW1
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		135	183	105	141	138
	Conductivity (uS/cm)		212	290	177	219	219
	pH (pH)		7.81	8.01	8.05	7.93	7.96
	Total Dissolved Solids (mg/L)		156	213	153	163	160
	Total Suspended Solids (mg/L)		<3.0	<3.0	39.4	<3.0	5.4
	Turbidity (NTU)		1.25	1.06	32.0	1.33	2.20
Anions and Nutrients	Ammonia as N (mg/L)		0.026	<0.020	0.029	0.021	0.025
	Acidity (as CaCO3) (mg/L)		3.0	2.4	1.4	2.4	2.2
	Alkalinity, Total (as CaCO3) (mg/L)		115	162	97.1	120	118
	Bromide (Br) (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Chloride (Cl) (mg/L)		<0.50	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)		0.063	0.075	0.063	0.064	0.066
	Sulfate (SO4) (mg/L)		<0.50	<0.50	<0.50	<0.50	<0.50
	Nitrate (as N) (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	0.0050
	Nitrite (as N) (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Total Kjeldahl Nitrogen (mg/L)		0.603	0.503	0.594	0.582	0.555
	Total Nitrogen (mg/L)		0.603	0.503	0.594	0.582	0.560
Cyanides	Cyanide, Total (mg/L)		0.0069	0.0107	0.0131	0.0068	0.0051
Total Metals	Aluminum (Al)-Total (mg/L)		0.0251	0.0166	0.723	0.0460	0.0342
	Antimony (Sb)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)		0.00100	0.00060	0.00129	0.00096	0.00095
	Barium (Ba)-Total (mg/L)		0.00946	0.0218	0.0160	0.0101	0.0100
	Beryllium (Be)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bismuth (Bi)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)		0.011	0.012	0.012	0.011	0.011
	Cadmium (Cd)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Calcium (Ca)-Total (mg/L)		31.1	43.0	26.1	32.4	32.8
	Chromium (Cr)-Total (mg/L)		<0.00050	<0.00050	0.00143	<0.00050	<0.00050
	Cobalt (Co)-Total (mg/L)		<0.00010	<0.00010	0.00048	<0.00010	<0.00010
	Copper (Cu)-Total (mg/L)		0.00036	0.00016	0.00148	0.00032	0.00040
	Iron (Fe)-Total (mg/L)		0.172	0.099	0.912	0.182	0.171
	Lead (Pb)-Total (mg/L)		0.000051	<0.000050	0.000453	0.000096	<0.000050
	Lithium (Li)-Total (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Total (mg/L)		13.2	18.8	11.5	14.0	14.0
	Manganese (Mn)-Total (mg/L)		0.0213	0.0170	0.0644	0.0127	0.0122
	Mercury (Hg)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Total (mg/L)		0.000071	0.000061	0.000057	0.000057	0.000059
	Nickel (Ni)-Total (mg/L)		0.00052	<0.00050	0.00168	<0.00050	<0.00050
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30

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		Sample ID	L532666-1	L532666-2	L532666-3	L532666-4	L532666-5
		Description					
		Sampled Date	15-JUL-07	15-JUL-07	16-JUL-07	16-JUL-07	17-JUL-07
		Sampled Time					
		Client ID	OCW2	OCW3	WRW1=WRW2x	WRW2=WRW1x	MRW2
Grouping	Analyte						
WATER							
Total Metals	Potassium (K)-Total (mg/L)		<2.0	<2.0	<2.0	<2.0	12.2
	Selenium (Se)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Silicon (Si)-Total (mg/L)		2.17	1.55	3.29	3.70	3.68
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	0.000833
	Sodium (Na)-Total (mg/L)		<2.0	<2.0	<2.0	2.1	2.5
	Strontium (Sr)-Total (mg/L)		0.0426	0.0341	0.0329	0.0344	0.0489
	Thallium (Tl)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	0.00012	<0.00010
	Titanium (Ti)-Total (mg/L)		<0.010	<0.010	0.026	0.020	<0.010
	Uranium (U)-Total (mg/L)		0.000113	0.000015	0.000206	0.000104	0.000088
	Vanadium (V)-Total (mg/L)		<0.0010	<0.0010	0.0015	0.0011	<0.0010
	Zinc (Zn)-Total (mg/L)		<0.0020	<0.0020	<0.0040	<0.0050	<0.0040
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		0.0025	0.0033	0.0120	0.0338	0.0053
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	0.00012
	Arsenic (As)-Dissolved (mg/L)		0.00058	0.00041	0.00071	0.00081	0.00086
	Barium (Ba)-Dissolved (mg/L)		0.0239	0.0187	0.0190	0.0139	0.0210
	Beryllium (Be)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bismuth (Bi)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)		0.012	0.010	0.013	<0.010	0.015
	Cadmium (Cd)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Calcium (Ca)-Dissolved (mg/L)		45.2	40.4	32.9	24.6	45.0
	Chromium (Cr)-Dissolved (mg/L)		<0.0020	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)		0.00013	0.00015	0.00050	0.00053	0.00084
	Iron (Fe)-Dissolved (mg/L)		0.055	0.059	0.036	0.088	0.102
	Lead (Pb)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	0.000090	0.000224
	Lithium (Li)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Dissolved (mg/L)		20.0	17.4	26.2	14.9	19.3
	Manganese (Mn)-Dissolved (mg/L)		0.00143	0.00313	0.00670	0.0172	0.0122
	Mercury (Hg)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)		0.000110	<0.000050	0.000082	<0.000050	0.000111
	Nickel (Ni)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	0.00076	0.00585
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		<2.0	<2.0	<2.0	<2.0	11.7
	Selenium (Se)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Silicon (Si)-Dissolved (mg/L)		2.43	1.54	2.64	3.17	3.58
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	0.000575
	Sodium (Na)-Dissolved (mg/L)		<2.0	<2.0	<2.0	2.2	2.5
	Strontium (Sr)-Dissolved (mg/L)		0.0420	0.0344	0.0298	0.0323	0.0482

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		Sample ID	L532666-6	L532666-7	L532666-8	L532666-9	L532666-10
		Description					
		Sampled Date	17-JUL-07	18-JUL-07	18-JUL-07	18-JUL-07	18-JUL-07
		Sampled Time					
		Client ID	MRW3	OCW1	HRW1	MRW1	JULY DUP1 of MRW1
Grouping	Analyte						
WATER							
Total Metals	Potassium (K)-Total (mg/L)		<2.0	<2.0	<2.0	<2.0	<2.0
	Selenium (Se)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Silicon (Si)-Total (mg/L)		4.03	2.76	4.37	4.02	4.09
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		2.6	<2.0	2.6	2.5	2.5
	Strontium (Sr)-Total (mg/L)		0.0423	0.0390	0.0443	0.0402	0.0400
	Thallium (Tl)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		<0.010	<0.010	0.032	<0.010	<0.010
	Uranium (U)-Total (mg/L)		0.000045	0.000075	0.000081	0.000048	0.000048
	Vanadium (V)-Total (mg/L)		<0.0010	<0.0010	0.0021	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)		<0.0010	<0.0010	<0.0050	<0.0010	0.0014
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		0.0060	0.0070	0.0412	0.0116	0.0128
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.00099	0.00061	0.00118	0.00101	0.00099
	Barium (Ba)-Dissolved (mg/L)		0.00929	0.0218	0.00977	0.00991	0.00997
	Beryllium (Be)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bismuth (Bi)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)		0.012	0.012	0.011	0.011	0.011
	Cadmium (Cd)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Calcium (Ca)-Dissolved (mg/L)		31.7	42.3	24.4	33.0	32.6
	Chromium (Cr)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)		0.00031	0.00023	0.00092	0.00034	0.00030
	Iron (Fe)-Dissolved (mg/L)		0.123	0.081	0.130	0.128	0.128
	Lead (Pb)-Dissolved (mg/L)		0.000063	<0.000050	0.000097	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Dissolved (mg/L)		13.5	18.7	10.7	14.3	13.8
	Manganese (Mn)-Dissolved (mg/L)		0.0162	0.0140	0.0255	0.0106	0.0108
	Mercury (Hg)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)		0.000051	0.000072	0.000051	0.000056	0.000052
	Nickel (Ni)-Dissolved (mg/L)		<0.00050	<0.00050	0.00066	<0.00050	<0.00050
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		<2.0	<2.0	<2.0	<2.0	<2.0
	Selenium (Se)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Silicon (Si)-Dissolved (mg/L)		4.09	2.71	3.34	4.06	4.00
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)		2.6	<2.0	2.5	2.6	2.5
	Strontium (Sr)-Dissolved (mg/L)		0.0422	0.0394	0.0392	0.0415	0.0413

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		Description					
		Sampled Date	15-JUL-07	15-JUL-07	16-JUL-07	16-JUL-07	17-JUL-07
		Sampled Time					
		Client ID	OCW2	OCW3	WRW1=WRW2x	WRW2=WRW1x	MRW2
Grouping	Analyte						
WATER							
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Dissolved (mg/L)		<0.00010	<0.00010	0.00012	0.00013	<0.00010
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.000081	0.000018	0.000179	0.000085	0.000086
	Vanadium (V)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	0.0018	0.0026
Radiological Parameters	Radium-226 (Bq/L)		0.010	<0.005	<0.005	<0.005	<0.005

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		Description					
		Sampled Date	17-JUL-07	18-JUL-07	18-JUL-07	18-JUL-07	18-JUL-07
		Sampled Time					
		Client ID	MRW3	OCW1	HRW1	MRW1	JULY DUP1 of MRW1
Grouping	Analyte						
WATER							
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Dissolved (mg/L)		<0.00010	0.00016	0.00011	<0.00010	0.00133
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.000044	0.000080	0.000057	0.000052	0.000051
	Vanadium (V)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)		<0.0010	0.0010	0.0011	<0.0010	<0.0010
Radiological Parameters	Radium-226 (Bq/L)		<0.005	<0.005	<0.005	<0.005	<0.005

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automated Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
CN-T-MID-HH-COL-VA	Water	Total Cyanide by HH Distillation	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
HG-DIS-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS	EPA SW-846 3005A & EPA 245.7
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
HG-TOT-CVAFS-VA	Water	Total Mercury in Water by CVAFS	EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
<p>This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p>			
RADIO-RADIUM226-SR	Water	Radium 226	CANMET 1986
SE-DIS-HVAAS-VA	Water	Dissolved Selenium in Water by HVAAS	EPA 3005A/7000 SERIES
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption spectrophotometry (EPA Method 7000 series).</p>			
SE-TOT-HVAAS-VA	Water	Total Selenium in Water by HVAAS	EPA 3005A/7000 SERIES
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption spectrophotometry (EPA Method 7000 series).</p>			
TDS-VA	Water	Total Dissolved Solids by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
TKN-COL-VA	Water	Total Kjeldahl Nitrogen by Auto. Colour	APHA 4500-Norg (TKN)
<p>This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.</p>			
TN-CALC-VA	Water	TN by Calc (TKN + N+N)	BC MOE LABORATORY MANUAL (2005)
<p>Total Nitrogen is determined by calculation by suming TKN and the NO2 and NO3 results.</p>			
TSS-VA	Water	Solids by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.</p>			
TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
<p>This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.</p>			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
SR	Saskatchewan Research Council - Saskatoon, Saskatchewan, Can	VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in enviromental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



Environmental Division

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Client: URS CANADA INC.
P.O. BOX 11507 1900 - 650 WEST GEORGIA STREET
VANCOUVER BC V6B 4N7

Contact: KEITH MOUNTJOY

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-PCT-VA		Water						
Batch	R554719							
WG633681-2	CRM	VA-ACY-CONTROL						
Acidity (as CaCO3)			99		%		85-115	30-JUL-07
WG633681-4	DUP	L532666-8						
Acidity (as CaCO3)		1.4	1.3	J	mg/L	0.1	4	30-JUL-07
ALK-COL-VA		Water						
Batch	R554505							
WG633984-13	DUP	L532666-6						
Alkalinity, Total (as CaCO3)		115	114		mg/L	0.71	20	28-JUL-07
WG633984-1	MB							
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	28-JUL-07
ANIONS-BR-IC-VA		Water						
Batch	R555029							
WG633688-12	CRM	VA-ALLT-170088						
Bromide (Br)			104		%		90-110	30-JUL-07
WG633688-2	CRM	VA-ALLT-170088						
Bromide (Br)			104		%		90-110	30-JUL-07
WG633688-4	DUP	L532666-10						
Bromide (Br)		<0.050	<0.050	RPD-NA	mg/L	N/A	20	30-JUL-07
WG633688-1	MB							
Bromide (Br)			<0.050		mg/L		0.05	30-JUL-07
WG633688-11	MB							
Bromide (Br)			<0.050		mg/L		0.05	30-JUL-07
WG633688-5	MB							
Bromide (Br)			<0.050		mg/L		0.05	30-JUL-07
WG633688-7	MB							
Bromide (Br)			<0.050		mg/L		0.05	30-JUL-07
WG633688-9	MB							
Bromide (Br)			<0.050		mg/L		0.05	30-JUL-07
ANIONS-CL-IC-VA		Water						
Batch	R555029							
WG633688-12	CRM	VA-ALLT-170088						
Chloride (Cl)			101		%		94-106	30-JUL-07
WG633688-2	CRM	VA-ALLT-170088						
Chloride (Cl)			102		%		94-106	30-JUL-07
WG633688-4	DUP	L532666-10						
Chloride (Cl)		<0.50	<0.50	RPD-NA	mg/L	N/A	20	30-JUL-07
WG633688-1	MB							

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ANIONS-CL-IC-VA		Water						
Batch	R555029							
WG633688-1	MB							
Chloride (Cl)			<0.50		mg/L		0.5	30-JUL-07
WG633688-11	MB							
Chloride (Cl)			<0.50		mg/L		0.5	30-JUL-07
WG633688-5	MB							
Chloride (Cl)			<0.50		mg/L		0.5	30-JUL-07
WG633688-7	MB							
Chloride (Cl)			<0.50		mg/L		0.5	30-JUL-07
WG633688-9	MB							
Chloride (Cl)			<0.50		mg/L		0.5	30-JUL-07
ANIONS-F-IC-VA		Water						
Batch	R555029							
WG633688-12	CRM	VA-ALLT-170088						
Fluoride (F)			103		%		93-107	30-JUL-07
WG633688-2	CRM	VA-ALLT-170088						
Fluoride (F)			103		%		93-107	30-JUL-07
WG633688-4	DUP	L532666-10						
Fluoride (F)		0.066	0.065	J	mg/L	0.001	0.08	30-JUL-07
WG633688-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	30-JUL-07
WG633688-11	MB							
Fluoride (F)			<0.020		mg/L		0.02	30-JUL-07
WG633688-5	MB							
Fluoride (F)			<0.020		mg/L		0.02	30-JUL-07
WG633688-7	MB							
Fluoride (F)			<0.020		mg/L		0.02	30-JUL-07
WG633688-9	MB							
Fluoride (F)			<0.020		mg/L		0.02	30-JUL-07
ANIONS-NO2-IC-VA		Water						
Batch	R555557							
WG634701-11	CRM	VA-ALLT-170088						
Nitrite (as N)			101		%		91-109	31-JUL-07
WG634701-2	CRM	VA-ALLT-170088						
Nitrite (as N)			100		%		91-109	31-JUL-07
WG634701-3	DUP	L532666-10						
Nitrite (as N)		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	31-JUL-07
WG634701-1	MB							

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ANIONS-NO2-IC-VA		Water						
Batch	R555557							
WG634701-1	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	31-JUL-07
WG634701-10	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	31-JUL-07
WG634701-4	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	31-JUL-07
WG634701-6	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	31-JUL-07
WG634701-8	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	31-JUL-07
ANIONS-NO3-IC-VA		Water						
Batch	R555029							
WG633688-12	CRM	VA-ALLT-170088						
Nitrate (as N)			100		%		91-109	30-JUL-07
WG633688-2	CRM	VA-ALLT-170088						
Nitrate (as N)			100		%		91-109	30-JUL-07
WG633688-4	DUP	L532666-10						
Nitrate (as N)		0.0050	0.0054	J	mg/L	0.0004	0.02	30-JUL-07
WG633688-1	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	30-JUL-07
WG633688-11	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	30-JUL-07
WG633688-5	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	30-JUL-07
WG633688-7	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	30-JUL-07
WG633688-9	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	30-JUL-07
ANIONS-SO4-IC-VA		Water						
Batch	R555029							
WG633688-12	CRM	VA-ALLT-170088						
Sulfate (SO4)			102		%		93-107	30-JUL-07
WG633688-2	CRM	VA-ALLT-170088						
Sulfate (SO4)			103		%		93-107	30-JUL-07
WG633688-4	DUP	L532666-10						
Sulfate (SO4)		<0.50	<0.50	RPD-NA	mg/L	N/A	20	30-JUL-07
WG633688-1	MB							

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ANIONS-SO4-IC-VA								
	Water							
Batch	R555029							
WG633688-1	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	30-JUL-07
WG633688-11	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	30-JUL-07
WG633688-5	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	30-JUL-07
WG633688-7	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	30-JUL-07
WG633688-9	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	30-JUL-07
CN-T-MID-HH-COL-VA								
	Water							
Batch	R555579							
WG635005-1	MB							
Cyanide, Total			<0.0050		mg/L		0.005	31-JUL-07
Batch	R556134							
WG635850-1	MB							
Cyanide, Total			<0.0050		mg/L		0.005	01-AUG-07
EC-PCT-VA								
	Water							
Batch	R554719							
WG633681-4	DUP	L532666-8						
Conductivity		177	176		uS/cm	0.68	20	30-JUL-07
WG633681-1	MB							
Conductivity			<2.0		uS/cm		2	30-JUL-07
HG-DIS-CVAFS-VA								
	Water							
Batch	R555035							
WG634604-2	CRM	VA-HG-WATRM						
Mercury (Hg)-Dissolved			90		%		88-112	30-JUL-07
WG633560-3	DUP	L532666-6						
Mercury (Hg)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	31-JUL-07
WG634604-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	30-JUL-07
Batch	R555567							
WG633560-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	01-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-TOT-CVAFS-VA								
	Water							
Batch	R555035							
WG634604-2	CRM	VA-HG-WATRM						
Mercury (Hg)-Total			90		%		88-112	30-JUL-07
WG634604-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	30-JUL-07
MET-DIS-ICP-VA								
	Water							
Batch	R555590							
WG633560-4	CRM	VA-HIGH-WATRM						
Calcium (Ca)-Dissolved			99		%		85-115	31-JUL-07
Iron (Fe)-Dissolved			94		%		90-110	31-JUL-07
Magnesium (Mg)-Dissolved			103		%		85-115	31-JUL-07
Phosphorus (P)-Dissolved			94		%		90-110	31-JUL-07
Potassium (K)-Dissolved			103		%		85-115	31-JUL-07
Silicon (Si)-Dissolved			93		%		90-110	31-JUL-07
Sodium (Na)-Dissolved			98		%		85-115	31-JUL-07
WG633560-1	MB							
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	31-JUL-07
Iron (Fe)-Dissolved			<0.030		mg/L		0.03	31-JUL-07
Magnesium (Mg)-Dissolved			<0.10		mg/L		0.1	31-JUL-07
Phosphorus (P)-Dissolved			<0.30		mg/L		0.3	31-JUL-07
Potassium (K)-Dissolved			<2.0		mg/L		2	31-JUL-07
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	31-JUL-07
Sodium (Na)-Dissolved			<2.0		mg/L		2	31-JUL-07
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	31-JUL-07
MET-DIS-LOW-MS-VA								
	Water							
Batch	R554430							
WG633560-1	MB							
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	28-JUL-07
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	28-JUL-07
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	28-JUL-07
Barium (Ba)-Dissolved			<0.000050		mg/L		0.00005	28-JUL-07
Beryllium (Be)-Dissolved			<0.00050		mg/L		0.0005	28-JUL-07
Bismuth (Bi)-Dissolved			<0.00050		mg/L		0.0005	28-JUL-07
Boron (B)-Dissolved			<0.010		mg/L		0.01	28-JUL-07
Cadmium (Cd)-Dissolved			<0.000050		mg/L		0.00005	28-JUL-07
Chromium (Cr)-Dissolved			<0.00050				0.0005	

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-MS-VA								
	Water							
Batch	R554430							
WG633560-1	MB							
Chromium (Cr)-Dissolved			<0.00050		mg/L		0.0005	28-JUL-07
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	28-JUL-07
Copper (Cu)-Dissolved			<0.00010		mg/L		0.0001	28-JUL-07
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	28-JUL-07
Lithium (Li)-Dissolved			<0.0050		mg/L		0.005	28-JUL-07
Manganese (Mn)-Dissolved			<0.000050		mg/L		0.00005	28-JUL-07
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	28-JUL-07
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	28-JUL-07
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	28-JUL-07
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	28-JUL-07
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	28-JUL-07
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	28-JUL-07
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	28-JUL-07
Vanadium (V)-Dissolved			<0.0010		mg/L		0.001	28-JUL-07
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	28-JUL-07
Batch	R555386							
WG633560-4	CRM	VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			103		%		90-110	31-JUL-07
Antimony (Sb)-Dissolved			98		%		90-110	31-JUL-07
Arsenic (As)-Dissolved			98		%		90-110	31-JUL-07
Barium (Ba)-Dissolved			100		%		90-110	31-JUL-07
Beryllium (Be)-Dissolved			101		%		90-110	31-JUL-07
Bismuth (Bi)-Dissolved			97		%		90-110	31-JUL-07
Boron (B)-Dissolved			99		%		85-115	31-JUL-07
Cadmium (Cd)-Dissolved			98		%		90-110	31-JUL-07
Chromium (Cr)-Dissolved			100		%		90-110	31-JUL-07
Cobalt (Co)-Dissolved			100		%		90-110	31-JUL-07
Copper (Cu)-Dissolved			98		%		90-110	31-JUL-07
Lead (Pb)-Dissolved			99		%		90-110	31-JUL-07
Lithium (Li)-Dissolved			96		%		90-110	31-JUL-07
Manganese (Mn)-Dissolved			100		%		90-110	31-JUL-07
Molybdenum (Mo)-Dissolved			100		%		90-110	31-JUL-07
Nickel (Ni)-Dissolved			99		%		90-110	31-JUL-07

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MET-DIS-LOW-MS-VA								
	Water							
Batch	R555386							
WG633560-4	CRM	VA-HIGH-WATRM						
Silver (Ag)-Dissolved			100		%		90-110	31-JUL-07
Strontium (Sr)-Dissolved			101		%		90-110	31-JUL-07
Thallium (Tl)-Dissolved			97		%		85-115	31-JUL-07
Uranium (U)-Dissolved			99		%		90-110	31-JUL-07
Vanadium (V)-Dissolved			100		%		90-110	31-JUL-07
Zinc (Zn)-Dissolved			103		%		85-115	31-JUL-07
MET-TOT-ICP-VA								
	Water							
Batch	R552521							
WG630684-4	CRM	VA-HIGH-WATRM						
Calcium (Ca)-Total			99		%		85-115	24-JUL-07
Iron (Fe)-Total			97		%		90-110	24-JUL-07
Magnesium (Mg)-Total			102		%		85-115	24-JUL-07
Phosphorus (P)-Total			92		%		90-110	24-JUL-07
Potassium (K)-Total			99		%		85-115	24-JUL-07
Silicon (Si)-Total			96		%		90-110	24-JUL-07
Sodium (Na)-Total			92		%		85-115	24-JUL-07
WG630684-1	MB							
Calcium (Ca)-Total			<0.050		mg/L		0.05	24-JUL-07
Iron (Fe)-Total			<0.030		mg/L		0.03	24-JUL-07
Magnesium (Mg)-Total			<0.10		mg/L		0.1	24-JUL-07
Phosphorus (P)-Total			<0.30		mg/L		0.3	24-JUL-07
Potassium (K)-Total			<2.0		mg/L		2	24-JUL-07
Silicon (Si)-Total			<0.050		mg/L		0.05	24-JUL-07
Sodium (Na)-Total			<2.0		mg/L		2	24-JUL-07
Titanium (Ti)-Total			<0.010		mg/L		0.01	24-JUL-07
Batch	R553140							
WG631287-3	DUP	L532666-2						
Calcium (Ca)-Total		40.7	41.1		mg/L	0.92	20	27-JUL-07
Iron (Fe)-Total		0.065	0.064	J	mg/L	0.001	0.12	27-JUL-07
Magnesium (Mg)-Total		17.7	17.8		mg/L	0.49	20	27-JUL-07
Phosphorus (P)-Total		<0.30	<0.30	RPD-NA	mg/L	N/A	20	27-JUL-07
Potassium (K)-Total		<2.0	<2.0	RPD-NA	mg/L	N/A	20	27-JUL-07
Silicon (Si)-Total		1.55	1.57		mg/L	1.2	20	27-JUL-07

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MET-TOT-ICP-VA								
	Water							
Batch	R553140							
WG631287-3	DUP	L532666-2						
Sodium (Na)-Total		<2.0	<2.0	RPD-NA	mg/L	N/A	20	27-JUL-07
Titanium (Ti)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	27-JUL-07
Batch	R553464							
WG631287-4	CRM	VA-HIGH-WATRM						
Calcium (Ca)-Total			103		%		85-115	26-JUL-07
Iron (Fe)-Total			96		%		90-110	26-JUL-07
Magnesium (Mg)-Total			101		%		85-115	26-JUL-07
Phosphorus (P)-Total			94		%		90-110	26-JUL-07
Potassium (K)-Total			99		%		85-115	26-JUL-07
Silicon (Si)-Total			99		%		90-110	26-JUL-07
Sodium (Na)-Total			96		%		85-115	26-JUL-07
WG631287-1	MB							
Calcium (Ca)-Total			<0.050		mg/L		0.05	26-JUL-07
Iron (Fe)-Total			<0.030		mg/L		0.03	26-JUL-07
Magnesium (Mg)-Total			<0.10		mg/L		0.1	26-JUL-07
Phosphorus (P)-Total			<0.30		mg/L		0.3	26-JUL-07
Potassium (K)-Total			<2.0		mg/L		2	26-JUL-07
Silicon (Si)-Total			<0.050		mg/L		0.05	26-JUL-07
Sodium (Na)-Total			<2.0		mg/L		2	26-JUL-07
Titanium (Ti)-Total			<0.010		mg/L		0.01	26-JUL-07
Batch	R555590							
WG633548-3	CRM	VA-HIGH-WATRM						
Calcium (Ca)-Total			99		%		85-115	31-JUL-07
Iron (Fe)-Total			93		%		90-110	31-JUL-07
Magnesium (Mg)-Total			102		%		85-115	31-JUL-07
Phosphorus (P)-Total			94		%		90-110	31-JUL-07
Potassium (K)-Total			103		%		85-115	31-JUL-07
Silicon (Si)-Total			92		%		90-110	31-JUL-07
Sodium (Na)-Total			96		%		85-115	31-JUL-07
WG633548-1	MB							
Calcium (Ca)-Total			<0.050		mg/L		0.05	31-JUL-07
Iron (Fe)-Total			<0.030		mg/L		0.03	31-JUL-07
Magnesium (Mg)-Total			<0.10		mg/L		0.1	31-JUL-07
Phosphorus (P)-Total			<0.30		mg/L		0.3	31-JUL-07

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MET-TOT-ICP-VA		Water						
Batch	R555590							
WG633548-1	MB							
Potassium (K)-Total			<2.0		mg/L		2	31-JUL-07
Silicon (Si)-Total			<0.050		mg/L		0.05	31-JUL-07
Sodium (Na)-Total			<2.0		mg/L		2	31-JUL-07
Titanium (Ti)-Total			<0.010		mg/L		0.01	31-JUL-07
MET-TOT-LOW-MS-VA		Water						
Batch	R553159							
WG630684-1	MB							
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	25-JUL-07
Arsenic (As)-Total			<0.00010		mg/L		0.0001	25-JUL-07
Barium (Ba)-Total			0.000052	A	mg/L		0.00005	25-JUL-07
Beryllium (Be)-Total			<0.00050		mg/L		0.0005	25-JUL-07
Bismuth (Bi)-Total			<0.00050		mg/L		0.0005	25-JUL-07
Boron (B)-Total			<0.010		mg/L		0.01	25-JUL-07
Cadmium (Cd)-Total			<0.000050		mg/L		0.00005	25-JUL-07
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	25-JUL-07
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	25-JUL-07
Copper (Cu)-Total			0.00020	A	mg/L		0.0001	25-JUL-07
Lead (Pb)-Total			<0.000050		mg/L		0.00005	25-JUL-07
Lithium (Li)-Total			<0.0050		mg/L		0.005	25-JUL-07
Manganese (Mn)-Total			<0.000050		mg/L		0.00005	25-JUL-07
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	25-JUL-07
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	25-JUL-07
Silver (Ag)-Total			<0.000010		mg/L		0.00001	25-JUL-07
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	25-JUL-07
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	25-JUL-07
Tin (Sn)-Total			<0.00010		mg/L		0.0001	25-JUL-07
Uranium (U)-Total			<0.000010		mg/L		0.00001	25-JUL-07
Vanadium (V)-Total			<0.0010		mg/L		0.001	25-JUL-07
Zinc (Zn)-Total			0.0016	A	mg/L		0.001	25-JUL-07
WG631287-1	MB							
Aluminum (Al)-Total			<0.0010		mg/L		0.001	25-JUL-07
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	25-JUL-07
Arsenic (As)-Total			<0.00010		mg/L		0.0001	25-JUL-07

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MET-TOT-LOW-MS-VA								
	Water							
Batch	R553159							
WG631287-1	MB							
Barium (Ba)-Total			<0.000050		mg/L		0.00005	25-JUL-07
Beryllium (Be)-Total			<0.00050		mg/L		0.0005	25-JUL-07
Bismuth (Bi)-Total			<0.00050		mg/L		0.0005	25-JUL-07
Boron (B)-Total			<0.010		mg/L		0.01	25-JUL-07
Cadmium (Cd)-Total			<0.000050		mg/L		0.00005	25-JUL-07
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	25-JUL-07
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	25-JUL-07
Copper (Cu)-Total			<0.00010		mg/L		0.0001	25-JUL-07
Lead (Pb)-Total			<0.000050		mg/L		0.00005	25-JUL-07
Lithium (Li)-Total			<0.0050		mg/L		0.005	25-JUL-07
Manganese (Mn)-Total			<0.000050		mg/L		0.00005	25-JUL-07
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	25-JUL-07
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	25-JUL-07
Silver (Ag)-Total			<0.000010		mg/L		0.00001	25-JUL-07
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	25-JUL-07
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	25-JUL-07
Tin (Sn)-Total			<0.00010		mg/L		0.0001	25-JUL-07
Uranium (U)-Total			<0.000010		mg/L		0.00001	25-JUL-07
Vanadium (V)-Total			<0.0010		mg/L		0.001	25-JUL-07
Zinc (Zn)-Total			0.0025	A	mg/L		0.001	25-JUL-07
Batch	R553587							
WG630684-1	MB							
Aluminum (Al)-Total			0.0048	A	mg/L		0.001	26-JUL-07
Batch	R554277							
WG631287-3	DUP	L532666-2						
Aluminum (Al)-Total		0.0032	0.0035	J	mg/L	0.0002	0.004	27-JUL-07
Antimony (Sb)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUL-07
Arsenic (As)-Total		0.00038	0.00039	J	mg/L	0.00002	0.0004	27-JUL-07
Barium (Ba)-Total		0.0184	0.0190		mg/L	3.3	20	27-JUL-07
Beryllium (Be)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	27-JUL-07
Bismuth (Bi)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	27-JUL-07
Boron (B)-Total		<0.010	0.010	RPD-NA	mg/L	N/A	20	27-JUL-07

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MET-TOT-LOW-MS-VA								
	Water							
Batch	R554277							
WG631287-3	DUP	L532666-2						
Cadmium (Cd)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	27-JUL-07
Chromium (Cr)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	27-JUL-07
Cobalt (Co)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUL-07
Copper (Cu)-Total		0.00042	0.00012	J	mg/L	0.00030	0.0004	27-JUL-07
Lead (Pb)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	27-JUL-07
Lithium (Li)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	27-JUL-07
Manganese (Mn)-Total		0.00322	0.00329		mg/L	2.0	20	27-JUL-07
Molybdenum (Mo)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	27-JUL-07
Nickel (Ni)-Total		0.00210	<0.00050	G	mg/L	N/A	20	27-JUL-07
Silver (Ag)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	27-JUL-07
Strontium (Sr)-Total		0.0341	0.0349		mg/L	2.3	20	27-JUL-07
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUL-07
Tin (Sn)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	27-JUL-07
Uranium (U)-Total		0.000015	0.000016	J	mg/L	0.000001	0.00004	27-JUL-07
Vanadium (V)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	27-JUL-07
Zinc (Zn)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	27-JUL-07
Batch	R554317							
WG630684-4	CRM	VA-HIGH-WATRM						
Aluminum (Al)-Total			102		%		90-110	28-JUL-07
Antimony (Sb)-Total			99		%		90-110	28-JUL-07
Arsenic (As)-Total			97		%		90-110	28-JUL-07
Barium (Ba)-Total			99		%		90-110	28-JUL-07
Beryllium (Be)-Total			102		%		90-110	28-JUL-07
Bismuth (Bi)-Total			96		%		90-110	28-JUL-07
Boron (B)-Total			98		%		85-115	28-JUL-07
Cadmium (Cd)-Total			96		%		90-110	28-JUL-07
Chromium (Cr)-Total			100		%		90-110	28-JUL-07
Cobalt (Co)-Total			99		%		90-110	28-JUL-07
Copper (Cu)-Total			97		%		90-110	28-JUL-07
Lead (Pb)-Total			99		%		90-110	28-JUL-07
Lithium (Li)-Total			100		%		90-110	28-JUL-07
Manganese (Mn)-Total			100		%		90-110	28-JUL-07
Molybdenum (Mo)-Total			99		%		90-110	28-JUL-07

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MET-TOT-LOW-MS-VA	Water							
Batch	R554317							
WG630684-4 CRM		VA-HIGH-WATRM						
Nickel (Ni)-Total			99		%		90-110	28-JUL-07
Silver (Ag)-Total			99		%		90-110	28-JUL-07
Strontium (Sr)-Total			101		%		90-110	28-JUL-07
Thallium (Tl)-Total			98		%		85-115	28-JUL-07
Uranium (U)-Total			105		%		90-110	28-JUL-07
Vanadium (V)-Total			102		%		90-110	28-JUL-07
Zinc (Zn)-Total			99		%		85-115	28-JUL-07
WG631287-4 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Total			102		%		90-110	28-JUL-07
Antimony (Sb)-Total			100		%		90-110	28-JUL-07
Arsenic (As)-Total			96		%		90-110	28-JUL-07
Barium (Ba)-Total			100		%		90-110	28-JUL-07
Beryllium (Be)-Total			101		%		90-110	28-JUL-07
Bismuth (Bi)-Total			94		%		90-110	28-JUL-07
Boron (B)-Total			96		%		85-115	28-JUL-07
Cadmium (Cd)-Total			98		%		90-110	28-JUL-07
Chromium (Cr)-Total			99		%		90-110	28-JUL-07
Cobalt (Co)-Total			99		%		90-110	28-JUL-07
Copper (Cu)-Total			98		%		90-110	28-JUL-07
Lead (Pb)-Total			98		%		90-110	28-JUL-07
Lithium (Li)-Total			95		%		90-110	28-JUL-07
Manganese (Mn)-Total			99		%		90-110	28-JUL-07
Molybdenum (Mo)-Total			97		%		90-110	28-JUL-07
Nickel (Ni)-Total			99		%		90-110	28-JUL-07
Silver (Ag)-Total			100		%		90-110	28-JUL-07
Strontium (Sr)-Total			101		%		90-110	28-JUL-07
Thallium (Tl)-Total			98		%		85-115	28-JUL-07
Uranium (U)-Total			102		%		90-110	28-JUL-07
Vanadium (V)-Total			100		%		90-110	28-JUL-07
Zinc (Zn)-Total			99		%		85-115	28-JUL-07

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MET-TOT-LOW-MS-VA								
	Water							
Batch	R554430							
WG633548-1	MB							
Aluminum (Al)-Total			<0.0010		mg/L		0.001	28-JUL-07
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	28-JUL-07
Arsenic (As)-Total			<0.00010		mg/L		0.0001	28-JUL-07
Barium (Ba)-Total			<0.000050		mg/L		0.00005	28-JUL-07
Beryllium (Be)-Total			<0.00050		mg/L		0.0005	28-JUL-07
Bismuth (Bi)-Total			<0.00050		mg/L		0.0005	28-JUL-07
Boron (B)-Total			<0.010		mg/L		0.01	28-JUL-07
Cadmium (Cd)-Total			<0.000050		mg/L		0.00005	28-JUL-07
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	28-JUL-07
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	28-JUL-07
Copper (Cu)-Total			<0.00010		mg/L		0.0001	28-JUL-07
Lead (Pb)-Total			<0.000050		mg/L		0.00005	28-JUL-07
Lithium (Li)-Total			<0.0050		mg/L		0.005	28-JUL-07
Manganese (Mn)-Total			<0.000050		mg/L		0.00005	28-JUL-07
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	28-JUL-07
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	28-JUL-07
Silver (Ag)-Total			<0.000010		mg/L		0.00001	28-JUL-07
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	28-JUL-07
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	28-JUL-07
Tin (Sn)-Total			<0.00010		mg/L		0.0001	28-JUL-07
Uranium (U)-Total			<0.000010		mg/L		0.00001	28-JUL-07
Vanadium (V)-Total			<0.0010		mg/L		0.001	28-JUL-07
Zinc (Zn)-Total			<0.0010		mg/L		0.001	28-JUL-07
Batch	R555386							
WG633548-3	CRM	VA-HIGH-WATRM						
Aluminum (Al)-Total			108		%		90-110	31-JUL-07
Antimony (Sb)-Total			100		%		90-110	31-JUL-07
Arsenic (As)-Total			101		%		90-110	31-JUL-07
Barium (Ba)-Total			102		%		90-110	31-JUL-07
Beryllium (Be)-Total			107		%		90-110	31-JUL-07
Bismuth (Bi)-Total			99		%		90-110	31-JUL-07
Boron (B)-Total			101		%		85-115	31-JUL-07
Cadmium (Cd)-Total			101		%		90-110	31-JUL-07

ALS Laboratory Group Quality Control Report

Workorder: L532666

Report Date: 14-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TOT-LOW-MS-VA	Water							
Batch	R555386							
WG633548-3 CRM		VA-HIGH-WATRM						
Chromium (Cr)-Total			106		%		90-110	31-JUL-07
Cobalt (Co)-Total			105		%		90-110	31-JUL-07
Copper (Cu)-Total			101		%		90-110	31-JUL-07
Lead (Pb)-Total			100		%		90-110	31-JUL-07
Lithium (Li)-Total			96		%		90-110	31-JUL-07
Manganese (Mn)-Total			104		%		90-110	31-JUL-07
Molybdenum (Mo)-Total			102		%		90-110	31-JUL-07
Nickel (Ni)-Total			103		%		90-110	31-JUL-07
Silver (Ag)-Total			103		%		90-110	31-JUL-07
Strontium (Sr)-Total			104		%		90-110	31-JUL-07
Thallium (Tl)-Total			99		%		85-115	31-JUL-07
Uranium (U)-Total			100		%		90-110	31-JUL-07
Vanadium (V)-Total			106		%		90-110	31-JUL-07
Zinc (Zn)-Total			106		%		85-115	31-JUL-07
NH3-SIE-VA	Water							
Batch	R554308							
WG633736-2 CRM		VA-SPXNUT-22-16						
Ammonia as N			100		%		86-114	27-JUL-07
WG633736-1 MB								
Ammonia as N			<0.020		mg/L		0.02	27-JUL-07
PH-PCT-VA	Water							
Batch	R554719							
WG633681-3 CRM		VA-PH7-BUF						
pH			7.00		pH		6.97-7.03	30-JUL-07
WG633681-4 DUP		L532666-8						
pH		8.05	8.07		pH	0.27	20	30-JUL-07
SE-DIS-HVAAS-VA	Water							
Batch	R555381							
WG633560-4 CRM		VA-HIGH-WATRM						
Selenium (Se)-Dissolved			100		%		90-110	31-JUL-07
WG633560-1 MB								
Selenium (Se)-Dissolved			<0.00050		mg/L		0.0005	31-JUL-07
SE-TOT-HVAAS-VA	Water							

ALS Laboratory Group Quality Control Report

Workorder: L532666

Report Date: 14-AUG-07

Page 15 of 17

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SE-TOT-HVAAS-VA								
Batch R552484								
WG630684-4 CRM		VA-HIGH-WATRM						
Selenium (Se)-Total			101		%		90-110	24-JUL-07
WG630684-1 MB			<0.00050		mg/L		0.0005	24-JUL-07
Batch R553076								
WG631287-3 DUP		L532666-2						
Selenium (Se)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	27-JUL-07
Batch R555030								
WG631287-4 CRM		VA-HIGH-WATRM						
Selenium (Se)-Total			100		%		90-110	30-JUL-07
WG631287-1 MB			<0.00050		mg/L		0.0005	30-JUL-07
Batch R555381								
WG633548-3 CRM		VA-HIGH-WATRM						
Selenium (Se)-Total			97		%		90-110	31-JUL-07
WG633548-1 MB			<0.00050		mg/L		0.0005	31-JUL-07
TDS-VA								
Batch R555972								
WG634693-1 MB								
Total Dissolved Solids			<10		mg/L		10	01-AUG-07
TKN-COL-VA								
Batch R554406								
WG633886-2 CRM		VA-TKN-CSPK1						
Total Kjeldahl Nitrogen			108		%		85-115	28-JUL-07
WG633886-4 DUP		L532666-7						
Total Kjeldahl Nitrogen		0.503	0.522		mg/L	3.6	20	28-JUL-07
WG633886-1 MB			<0.050		mg/L		0.05	28-JUL-07
Batch R555402								
WG635187-2 CRM		VA-TKN-CSPK1						
Total Kjeldahl Nitrogen			107		%		85-115	31-JUL-07
WG635187-1 MB			<0.050		mg/L		0.05	31-JUL-07
TSS-VA								
Water								

ALS Laboratory Group Quality Control Report

Workorder: L532666

Report Date: 14-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TSS-VA								
	Water							
Batch	R555793							
WG635399-1	MB							
Total Suspended Solids			<3.0		mg/L		3	01-AUG-07
TURBIDITY-VA								
	Water							
Batch	R555059							
WG634694-2	CRM	VA-TURB-SPK-8						
Turbidity			99		%		85-115	30-JUL-07
WG634694-7	DUP	L532666-5						
Turbidity		2.18	2.23		NTU	2.3	39	30-JUL-07
WG634694-1	MB							
Turbidity			<0.10		NTU		0.1	30-JUL-07

ALS Laboratory Group Quality Control Report

Workorder: L532666

Report Date: 14-AUG-07

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Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Qualifier:

RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.
A	Method blank exceeds acceptance limit. Blank correction not applied, unless the qualifier "RAMB" (result adjusted for method blank) appears in the Analytical Report.
B	Method blank result exceeds acceptance limit, however, it is less than 5% of sample concentration. Blank correction not applied.
E	Matrix spike recovery may fall outside the acceptance limits due to high sample background.
F	Silver recovery low, likely due to elevated chloride levels in sample.
G	Outlier - No assignable cause for nonconformity has been determined.
J	Duplicate results and limit(s) are expressed in terms of absolute difference.
K	The sample referenced above is of a non-standard matrix type; standard QC acceptance criteria may not be achievable.
L	Low matrix spike recovery due to instability of spiked analyte in the sample matrix.

SRC ANALYTICAL

422 Downey Road
Saskatoon, Saskatchewan, Canada
S7N 4N1
(306) 933-6932 or 1-800-240-8808
Fax: (306) 933-7922

Aug 13, 2007

ALS
Aurora Laboratory Services Ltd.
1988 Triumph Street
Vancouver, British Columbia V5L 1K5
Attn: Jerry Holzbecher

Sample # **23438** Client PO #: **LW11385**
Date Sampled: **Jul 15, 2007** Date Received: **Jul 26, 2007**
Sample Matrix: **WATER**
Description: **L532666-1 OCW2**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.01	0.005	Aug 03, 2007

SRC ANALYTICAL

Aug 13, 2007

ALS, Aurora Laboratory Services Ltd.

Page 2 of 10

Sample # **23439**
Date Sampled: **Jul 15, 2007**
Sample Matrix: **WATER**
Description: **L532666-2 OCW3**

Client PO #: **LW11385**
Date Received: **Jul 26, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Aug 03, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

Aug 13, 2007

ALS, Aurora Laboratory Services Ltd.

Page 3 of 10

Sample # **23440**
Date Sampled: **Jul 16, 2007**
Sample Matrix: **WATER**
Description: **L532666-3 WRW1**

Client PO #: **LW11385**
Date Received: **Jul 26, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Aug 03, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

Aug 13, 2007

ALS, Aurora Laboratory Services Ltd.

Page 4 of 10

Sample # **23441**
Date Sampled: **Jul 16, 2007**
Sample Matrix: **WATER**
Description: **L532666-4 WRW2**

Client PO #: **LW11385**
Date Received: **Jul 26, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Aug 03, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

Aug 13, 2007

ALS, Aurora Laboratory Services Ltd.

Page 5 of 10

Sample # **23442**
Date Sampled: **Jul 17, 2007**
Sample Matrix: **WATER**
Description: **L532666-5 MRW2**

Client PO #: **LW11385**
Date Received: **Jul 26, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Aug 03, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

Aug 13, 2007

ALS, Aurora Laboratory Services Ltd.

Page 6 of 10

Sample # **23443**
Date Sampled: **Jul 17, 2007**
Sample Matrix: **WATER**
Description: **L532666-6 MRW3**

Client PO #: **LW11385**
Date Received: **Jul 26, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Aug 08, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

Aug 13, 2007

ALS, Aurora Laboratory Services Ltd.

Page 7 of 10

Sample # **23444**
Date Sampled: **Jul 18, 2007**
Sample Matrix: **WATER**
Description: **L532666-7 OCW1**

Client PO #: **LW11385**
Date Received: **Jul 26, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Aug 08, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

Aug 13, 2007

ALS, Aurora Laboratory Services Ltd.

Page 8 of 10

Sample # **23445**
Date Sampled: **Jul 18, 2007**
Sample Matrix: **WATER**
Description: **L532666-8 HRW1**

Client PO #: **LW11385**
Date Received: **Jul 26, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Aug 08, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

Aug 13, 2007

ALS, Aurora Laboratory Services Ltd.

Page 9 of 10

Sample # **23446**
Date Sampled: **Jul 18, 2007**
Sample Matrix: **WATER**
Description: **L532666-9 MRW1**

Client PO #: **LW11385**
Date Received: **Jul 26, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Aug 08, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

Aug 13, 2007

ALS, Aurora Laboratory Services Ltd.

Page 10 of 10

Sample # **23447** Client PO #: **LW11385**
Date Sampled: **Jul 18, 2007** Date Received: **Jul 26, 2007**
Sample Matrix: **WATER**
Description: **L532666-10 JULY DUP1**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Aug 08, 2007

"<": not detected at level stated above.



Environmental Division

REPORT TO: <u>URS</u>	REPORT FORMAT / DISTRIBUTION STANDARD <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	SERVICE REQUESTED <input checked="" type="checkbox"/> REGULAR SERVICE (DEFAULT)
COMPANY: <u>URS</u>	PDF <input type="checkbox"/> EXCEL <input checked="" type="checkbox"/> CUSTOM <input type="checkbox"/> FAX <input type="checkbox"/>	RUSH SERVICE (2-3 DAYS)
CONTACT: <u>Keith_Mountjoy@urscorp.com</u>	EMAIL 1: <u>james-phibbs@</u>	PRIORITY SERVICE (1 DAY or ASAP)
ADDRESS: <u>650 West Georgia St</u> <u>Vancouver, BC</u>	EMAIL 2: <u>chris-f-brown@</u>	EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS
PHONE: <u>6046811672</u> FAX: <u>6046873446</u>		

INVOICE TO: <u>SAME AS REPORT ? YES / NO</u>	INDICATE BOTTLES: FILTERED / PRESERVED (F/P) → → →	ANALYSIS REQUEST										
COMPANY:	CLIENT / PROJECT INFORMATION:	General Parameters	Radium 226	Cyanide	TKN	Ammonia-N	Total Metals	Field Preserved	Dissolved Metals field filtered & preserved	HAZARDOUS ?	HIGHLY CONTAMINATED ?	NUMBER OF CONTAINERS
CONTACT:	JOB #: <u>39548827</u>											
ADDRESS:	PO / AFE: <u>Jerry Holzbecher</u>											
PHONE: FAX:	Legal Site Description: <u>Mimago, MB</u>											
Lab Work Order # (lab use only): <u>LS32666</u>	QUOTE #:											
	SAMPLER (Initials): <u>JP+CB</u>											

Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	General Parameters	Radium 226	Cyanide	TKN	Ammonia-N	Total Metals	Field Preserved	Dissolved Metals field filtered & preserved	HAZARDOUS ?	HIGHLY CONTAMINATED ?	NUMBER OF CONTAINERS
	OCW2	07/15/07	Am	G.W.	X	X	X	X	X	X	X	X			1
	OCW3	↓	Pm	↓	↓	↓	↓	↓	↓	↓	↓	↓			↓
	WRW1	07/16/07	Am	↓	↓	↓	↓	↓	↓	↓	↓	↓			↓
	WRW2	↓	Pm	↓	↓	↓	↓	↓	↓	↓	↓	↓			↓
	MRW2	07/17/07	Am	↓	↓	↓	↓	↓	↓	↓	↓	↓			↓
	MRW3	07/17/07	Am	↓	↓	↓	↓	↓	↓	↓	↓	↓			↓
	OCW1	07/18/07	Pm	↓	↓	↓	↓	↓	↓	↓	↓	↓			↓
	HRW1	↓	Pm	↓	↓	↓	↓	↓	↓	↓	↓	↓			↓
	MRW1	↓	Am	↓	↓	↓	↓	↓	↓	↓	↓	↓			↓
	July DUPI	↓	Am	↓	↓	↓	↓	↓	↓	↓	↓	↓			↓

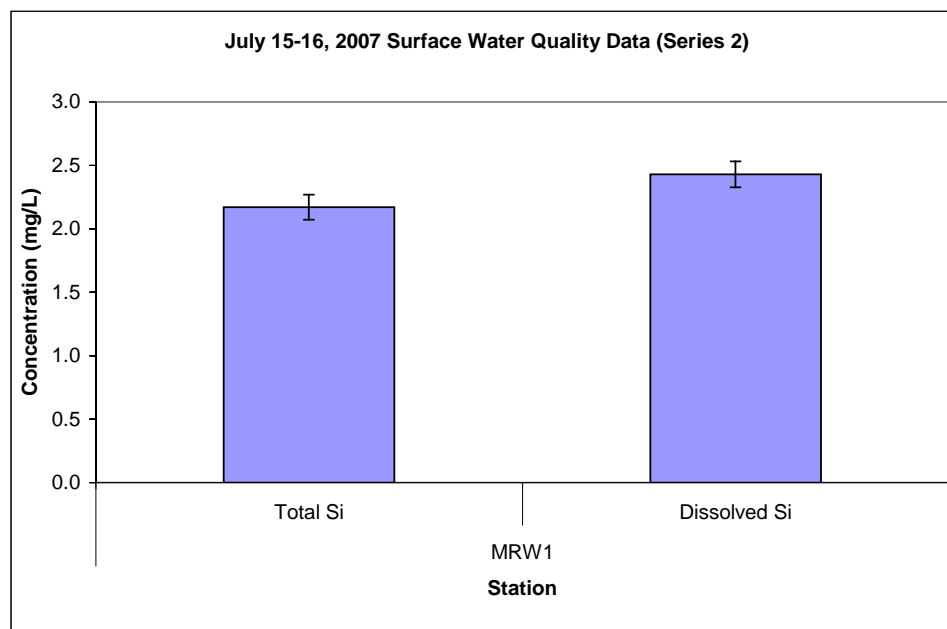
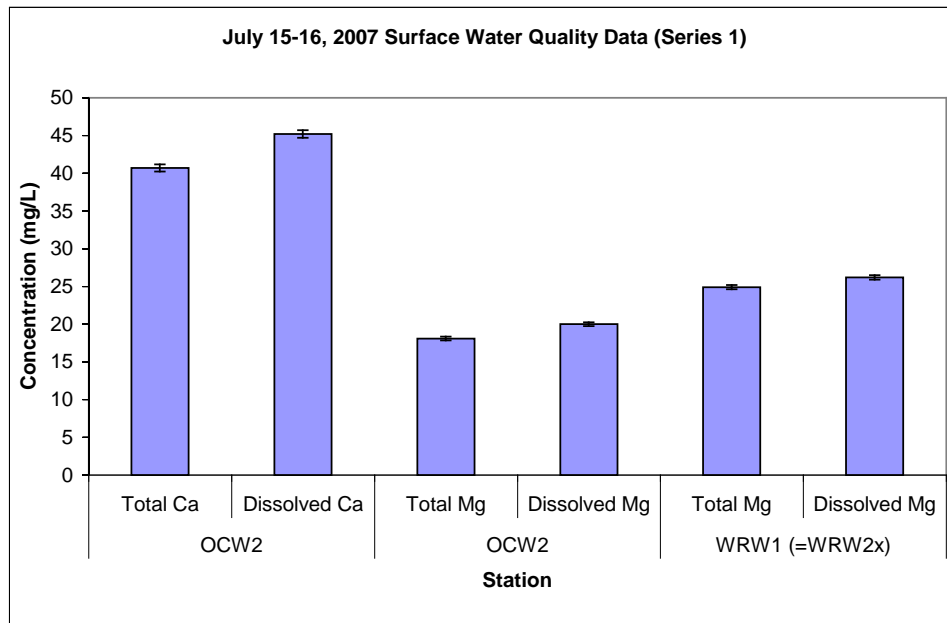
GUIDELINES / REGULATIONS	SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS
--------------------------	--

Failure to complete all portions of this form may delay analysis. Please fill in this form **LEGIBLY**.
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse page of the white report copy.

RELINQUISHED BY: <u>James Phibbs</u>	DATE & TIME: <u>7:00 AM</u>	RECEIVED BY: <u>Keith Mountjoy</u>	DATE & TIME: <u>7 AM</u>	SAMPLE CONDITION (lab use only)	
RELINQUISHED BY: <u>Keith Mountjoy</u>	DATE & TIME: <u>07/20/07</u>	RECEIVED BY: <u>[Signature]</u>	DATE & TIME: <u>07/20/07</u>	TEMPERATURE: <u>15°C</u>	SAMPLES RECEIVED IN GOOD CONDITION? YES / NO

L75-278

**July 15-16, 2007 Minago Surface Water Quality Data
for which the measured Dissolved concentrations were higher than the Total concentrations**



APPENDIX L7.5-L

Certified Laboratory Reports for Surface Water Quality

August 2007 Results



Environmental Division

ANALYTICAL REPORT

URS CANADA INC.

ATTN: KEITH MOUNTJOY

Reported On: 10-SEP-07 02:45 PM

P.O. BOX 11507
1900 - 650 WEST GEORGIA STREET
VANCOUVER BC V6B 4N7

Lab Work Order #: L544316

Date Received: 21-AUG-07

Project P.O. #:

Job Reference: 39548827

Legal Site Desc:

CofC Numbers:

Other Information:

Comments: Please note the water sample identified as OCW1 on the chain of custody was not received. In addition, the extra sample identified as OCW3 (sampling date of Aug 13th, 2007) was received but not listed on the COC.

A replacement submission for OCW1 was received at a later date and logged in under its own ALS Work Order - L550904.

If further details are required, please contact ALS.

Timothy Guy Crowther
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Jerry Holzbecher

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS Canada Ltd.
Part of the **ALS Laboratory Group**

1988 Triumph Street, Vancouver, BC V5L 1K5
Phone: +1 604 253 4188 Fax: +1 604 253 6700 www.alsglobal.com
A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

10-SEP-07 14:43

	Sample ID Description Sampled Date Sampled Time Client ID	L544316-1	L544316-2	L544316-3	L544316-4	L544316-5
		15-AUG-07	15-AUG-07	16-AUG-07	13-AUG-07	15-AUG-07
		OCW2	OCW3	AUG-DUP1 of MRW3	MRW1	MRW2
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	265	226	163	161	213
	Conductivity (uS/cm)	417	373	279	280	366
	pH (pH)	8.04	8.00	8.17	8.15	8.17
	Total Dissolved Solids (mg/L)	260	244	192	183	232
	Total Suspended Solids (mg/L)	<3.0	<3.0	<3.0	<3.0	3.3
	Turbidity (NTU)	0.57	0.64	1.47	0.76	2.16
Anions and Nutrients	Ammonia as N (mg/L)	0.031	0.020	0.037	<0.020	<0.020
	Acidity (as CaCO ₃) (mg/L)	3.7	3.2	1.1	1.0	1.2
	Alkalinity, Total (as CaCO ₃) (mg/L)	250	219	161	161	210
	Bromide (Br) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Chloride (Cl) (mg/L)	<0.50	<0.50	0.90	0.70	1.31
	Fluoride (F) (mg/L)	0.093	0.072	0.074	0.073	0.097
	Sulfate (SO ₄) (mg/L)	1.25	<0.50	0.93	0.62	1.26
	Nitrate (as N) (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Total Kjeldahl Nitrogen (mg/L)	0.524	0.592	0.696	0.674	0.542
	Total Nitrogen (mg/L)	0.524	0.592	0.696	0.674	0.542
Cyanides	Cyanide, Total (mg/L)	0.0076	0.0091	0.0106	0.0108	0.0070
Total Metals	Aluminum (Al)-Total (mg/L)	0.0305	<0.011	0.0317	0.0210	0.0610
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	0.00045	0.00051	0.00098	0.00093	0.00071
	Barium (Ba)-Total (mg/L)	0.0318	0.0232	0.0100	0.0101	0.0253
	Beryllium (Be)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.010	<0.010	0.015	0.015	0.017
	Cadmium (Cd)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Calcium (Ca)-Total (mg/L)	56.7	52.3	37.6	37.4	47.2
	Chromium (Cr)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Total (mg/L)	0.00013	<0.00070	0.00053	0.00027	0.00059
	Iron (Fe)-Total (mg/L)	0.170	0.274	0.139	0.108	0.187
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000070	0.000119	<0.000050	0.000089
	Lithium (Li)-Total (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Total (mg/L)	28.7	23.2	16.9	17.0	22.8
	Manganese (Mn)-Total (mg/L)	0.0211	0.0244	0.0297	0.0155	0.0138
	Mercury (Hg)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Total (mg/L)	0.000093	0.000073	0.000066	0.000063	0.000111
	Nickel (Ni)-Total (mg/L)	<0.00050	0.00066	<0.00050	<0.00050	<0.00050
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L544316-6	L544316-7	L544316-8	L544316-18	L544316-19
		Description					
		Sampled Date	16-AUG-07	14-AUG-07	13-AUG-07	13-AUG-07	14-AUG-07
		Sampled Time					
		Client ID	MRW3	WRW2=WRW1x	HRW1	OCW3	WRW1=WRW2x
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		163	161	118	244	199
	Conductivity (uS/cm)		282	272	203	404	336
	pH (pH)		8.12	8.16	8.07	8.20	8.33
	Total Dissolved Solids (mg/L)		193	183	167	257	186
	Total Suspended Solids (mg/L)		<3.0	18.8	23.8	<3.0	19.8
	Turbidity (NTU)		1.74	16.2	37.4	0.65	14.2
Anions and Nutrients	Ammonia as N (mg/L)		<0.020	0.080	<0.020	0.020	0.047
	Acidity (as CaCO3) (mg/L)		1.1	2.2	2.9	<1.0	<1.0
	Alkalinity, Total (as CaCO3) (mg/L)		160	152	111	237	186
	Bromide (Br) (mg/L)		<0.050	<0.050	<0.050	<0.050	<0.050
	Chloride (Cl) (mg/L)		0.90	0.79	0.52	<0.50	1.04
	Fluoride (F) (mg/L)		0.074	0.081	0.068	0.090	0.110
	Sulfate (SO4) (mg/L)		0.66	1.56	0.59	0.66	3.16
	Nitrate (as N) (mg/L)		<0.0050	<0.0050	0.0057	<0.0050	<0.0050
	Nitrite (as N) (mg/L)		<0.0010	<0.0010	0.0022	<0.0010	<0.0010
	Total Kjeldahl Nitrogen (mg/L)		0.748	0.941	0.819	0.506	0.628
	Total Nitrogen (mg/L)		0.748	0.941	0.827	0.506	0.628
Cyanides	Cyanide, Total (mg/L)		0.0089	0.0122	0.0118	0.0107	0.0067
Total Metals	Aluminum (Al)-Total (mg/L)		0.104	0.645	0.484	0.0266	0.277
	Antimony (Sb)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)		0.00096	0.00107	0.00153	0.00050	0.00074
	Barium (Ba)-Total (mg/L)		0.00990	0.0194	0.0159	0.0294	0.0251
	Beryllium (Be)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bismuth (Bi)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)		0.016	0.011	0.012	<0.010	0.015
	Cadmium (Cd)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Calcium (Ca)-Total (mg/L)		37.6	29.8	30.3	55.0	26.2
	Chromium (Cr)-Total (mg/L)		<0.00050	0.00086	0.00109	<0.00050	0.00062
	Cobalt (Co)-Total (mg/L)		<0.00010	0.00031	0.00048	<0.00010	0.00021
	Copper (Cu)-Total (mg/L)		0.00046	0.00091	0.00149	0.00013	0.00075
	Iron (Fe)-Total (mg/L)		0.138	0.588	0.967	0.113	0.373
	Lead (Pb)-Total (mg/L)		0.000067	0.000293	0.000485	<0.000050	0.000261
	Lithium (Li)-Total (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Total (mg/L)		16.9	21.0	12.0	26.5	33.6
	Manganese (Mn)-Total (mg/L)		0.0281	0.0355	0.0671	0.0160	0.0184
	Mercury (Hg)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Total (mg/L)		0.000053	0.000076	0.000064	0.000089	0.000094
	Nickel (Ni)-Total (mg/L)		<0.00050	0.00091	0.00145	<0.00050	0.00069
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30

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		Sample ID	L544316-1	L544316-2	L544316-3	L544316-4	L544316-5
		Description					
		Sampled Date	15-AUG-07	15-AUG-07	16-AUG-07	13-AUG-07	15-AUG-07
		Sampled Time					
		Client ID	OCW2	OCW3	AUG-DUP1=MRW3	MRW1	MRW2
Grouping	Analyte						
WATER							
Total Metals	Potassium (K)-Total (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Selenium (Se)-Total (mg/L)	<0.00050	<0.00050	0.00062	<0.00050	<0.00050	<0.00050
	Silicon (Si)-Total (mg/L)	4.51	5.37	4.47	4.48	4.66	
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	2.1	<2.0	3.9	3.8	4.3	
	Strontium (Sr)-Total (mg/L)	0.0529	0.0496	0.0572	0.0515	0.0617	
	Thallium (Tl)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	0.00011	
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/L)	0.000200	0.000034	0.000075	0.000076	0.000127	
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total (mg/L)	<0.0010	<0.0040	<0.0010	<0.0010	<0.0010	<0.0010	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0087	0.0360	0.0124	0.0278	0.0260	
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00042	0.00049	0.00096	0.00095	0.00072	
	Barium (Ba)-Dissolved (mg/L)	0.0306	0.0223	0.00985	0.0103	0.0250	
	Beryllium (Be)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	0.015	0.015	0.017	
	Cadmium (Cd)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Calcium (Ca)-Dissolved (mg/L)	58.1	51.4	37.5	36.8	47.5	
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00017	0.00026	0.00044	0.00081	0.00033	
	Iron (Fe)-Dissolved (mg/L)	0.152	0.201	0.081	0.100	0.117	
	Lead (Pb)-Dissolved (mg/L)	<0.000050	0.000051	<0.000050	0.000123	0.000052	
	Lithium (Li)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Dissolved (mg/L)	29.1	23.7	16.8	16.8	22.8	
	Manganese (Mn)-Dissolved (mg/L)	0.0176	0.0219	0.0181	0.00691	0.0105	
	Mercury (Hg)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.000096	<0.000050	<0.000050	0.000068	0.000126	
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	0.00053	<0.00050	
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Selenium (Se)-Dissolved (mg/L)	0.00060	<0.00050	<0.00050	<0.00050	0.00081	
	Silicon (Si)-Dissolved (mg/L)	4.67	5.31	4.34	4.50	4.54	
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	2.1	<2.0	3.9	3.8	4.3	
	Strontium (Sr)-Dissolved (mg/L)	0.0514	0.0469	0.0570	0.0520	0.0616	

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		Sample ID	L544316-6	L544316-7	L544316-8	L544316-18	L544316-19
		Description					
		Sampled Date	16-AUG-07	14-AUG-07	13-AUG-07	13-AUG-07	14-AUG-07
		Sampled Time					
		Client ID	MRW3	WRW2=WRW1x	HRW1	OCW3	WRW1=WRW2x
Grouping	Analyte						
WATER							
Total Metals	Potassium (K)-Total (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Selenium (Se)-Total (mg/L)	<0.00050	0.00060	<0.00050	<0.00050	<0.00050	<0.00050
	Silicon (Si)-Total (mg/L)	4.44	5.51	5.65	4.74	3.86	
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	3.9	2.6	3.2	2.1	2.1	
	Strontium (Sr)-Total (mg/L)	0.0578	0.0385	0.0475	0.0516	0.0297	
	Thallium (Tl)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.010	0.028	0.029	<0.010	0.020	
	Uranium (U)-Total (mg/L)	0.000074	0.000196	0.000104	0.000169	0.000285	
	Vanadium (V)-Total (mg/L)	<0.0010	0.0011	0.0017	<0.0010	<0.0010	
	Zinc (Zn)-Total (mg/L)	0.0018	0.0028	0.0037	<0.0010	0.0022	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0270	0.0588	0.0625	0.0146	0.0521	
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00095	0.00100	0.00137	0.00052	0.00072	
	Barium (Ba)-Dissolved (mg/L)	0.00993	0.0160	0.0109	0.0296	0.0222	
	Beryllium (Be)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	0.015	0.011	0.011	<0.010	0.015	
	Cadmium (Cd)-Dissolved (mg/L)	0.000051	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Calcium (Ca)-Dissolved (mg/L)	37.7	29.6	28.6	54.4	25.8	
	Chromium (Cr)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00066	0.00064	0.00100	0.00047	0.00060	
	Iron (Fe)-Dissolved (mg/L)	0.105	0.105	0.221	0.100	0.074	
	Lead (Pb)-Dissolved (mg/L)	0.000128	0.000100	0.000115	0.000096	0.000141	
	Lithium (Li)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Dissolved (mg/L)	16.8	21.0	11.4	26.3	32.6	
	Manganese (Mn)-Dissolved (mg/L)	0.0211	0.0173	0.0362	0.0137	0.00677	
	Mercury (Hg)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.000069	0.000073	0.000061	0.000101	0.000100	
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	<0.00050	0.00063	<0.00050	<0.00050	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	Selenium (Se)-Dissolved (mg/L)	0.00053	<0.00050	0.00056	<0.00050	<0.00050	<0.00050
	Silicon (Si)-Dissolved (mg/L)	4.36	4.46	4.70	4.75	3.09	
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	3.8	2.7	3.2	2.1	2.0	
	Strontium (Sr)-Dissolved (mg/L)	0.0575	0.0371	0.0456	0.0536	0.0287	

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		Sample ID	L544316-1	L544316-2	L544316-3	L544316-4	L544316-5
		Description					
		Sampled Date	15-AUG-07	15-AUG-07	16-AUG-07	13-AUG-07	15-AUG-07
		Sampled Time					
		Client ID	OCW2	OCW3	AUG-DUP1 of MRW3	MRW1	MRW2
Grouping	Analyte						
WATER							
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Dissolved (mg/L)	<0.00010	0.00033	0.00026	0.00019	0.00134	0.00134
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.000181	0.000036	0.000075	0.000080	0.000138	0.000138
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0015	0.0012	<0.0010	0.0017	<0.0010	<0.0010
Radiological Parameters	Radium-226 (Bq/L)	<0.005	<0.005	<0.005	0.006	<0.005	<0.005

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L544316-6	L544316-7	L544316-8	L544316-18	L544316-19
		Description					
		Sampled Date	16-AUG-07	14-AUG-07	13-AUG-07	13-AUG-07	14-AUG-07
		Sampled Time					
		Client ID	MRW3	WRW2=WRW1x	HRW1	OCW3	WRW1=WRW2x
Grouping	Analyte						
WATER							
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Tin (Sn)-Dissolved (mg/L)	0.00070	0.00029	0.00010	0.00107	0.00038	0.00038
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.000074	0.000179	0.000083	0.000175	0.000266	0.000266
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0023	0.0020	0.0014	0.0011	<0.0010	<0.0010
Radiological Parameters	Radium-226 (Bq/L)	<0.005	0.010	0.010	<0.005	0.005	0.005

Reference Information

Qualifiers for Sample Submission Listed:

Qualifier	Description
NR:NR	No Result: Sample Not Received At Laboratory - OCW1 water, AUG-DUP1 sediment, WRW1 waters not received.
SR:COC	Sample Received, Not Listed on Submitted Chain of Custody / Analytical Request Form - OCW3 AUG 13/07 extra sample not on COC.

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automated Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
C-TOT-ORG-LECO-SK	Soil	Organic Carbon by combustion method	SSSA (1996) p. 973
CN-T-MID-HH-COL-VA	Water	Total Cyanide by HH Distillation	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Total or strong acid dissociable (SAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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HARDNESS-CALC-VA Water Hardness APHA 2340B

Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.

HG-CCME-CVAFS-VA Soil CVAFS Hg in Soil (CCME) CCME

This analysis is carried out using procedures from CSR Analytical Method 8 "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, Lands and Parks, 26 June 2001, and procedures adapted from "Test Methods for Evaluating Solid Waste", SW-846 Method 3050B United States Environmental Protection Agency (EPA). The sample is manually homogenized, dried at 60 degrees Celsius, sieved through a 2 mm (10 mesh) sieve, and a representative subsample of the dry material is weighed. The sample is then digested at 90 degrees Celsius for 2 hours by block digester using a 1:1 ratio of concentrated nitric and hydrochloric acids. Instrumental analysis is by atomic fluorescence spectrophotometry (EPA Method 7000 series).

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that may be environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.

HG-DIS-CVAFS-VA Water Dissolved Mercury in Water by CVAFS EPA SW-846 3005A & EPA 245.7

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

HG-TOT-CVAFS-VA Water Total Mercury in Water by CVAFS EPA 245.7

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

MET-CSR-FULL-ICP-VA Soil Metals in Soil by ICPOES (CSR SALM) BCMELP CSR SALM METHOD 8

This analysis is carried out using procedures from CSR Analytical Method 8 "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, Lands and Parks, 26 June 2001, and procedures adapted from "Test Methods for Evaluating Solid Waste", SW-846 Method 3050B United States Environmental Protection Agency (EPA). The sample is manually homogenized, dried at 60 degrees Celsius, sieved through a 2 mm (10 mesh) sieve, and a representative subsample of the dry material is weighed. The sample is then digested at 90 degrees Celsius for 2 hours by block digester using a 1:1 ratio of concentrated nitric and hydrochloric acids. Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that may be environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.

MET-DIS-ICP-VA Water Dissolved Metals in Water by ICPOES EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

MET-DIS-LOW-MS-VA Water Dissolved Metals in Water by ICPMS(Low) EPA SW-846 3005A/6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

MET-TOT-ICP-VA Water Total Metals in Water by ICPOES EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MOISTURE-VA	Soil	% Moisture	ASTM METHOD D2794-00
<p>This analysis is carried out gravimetrically by drying the sample at 105 C for a minimum of six hours.</p>			
NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
<p>This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.</p>			
PH-1:2-VA	Soil	CSR pH by 1:2 Water Leach	BC WLAP METHOD: PH, ELECTROMETRIC, SOIL
<p>This analysis is carried out in accordance with procedures described in the BC WLAP method: pH, Electrometric, Soil and Sediment. The procedure involves mixing the dried (at <60 C) and sieved (10 mesh/2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water. The pH of the solution is then measured using a standard pH probe.</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p>			
PSA-PIPET-DETAIL-SK	Soil	Particle size - Sieve and Pipette	FORESTRY CANADA (1991) P. 46-48 MOD
RADIO-RADIUM226-SR	Water	Radium 226	CANMET 1986
SE-DIS-HVAAS-VA	Water	Dissolved Selenium in Water by HVAAS	EPA 3005A/7000 SERIES
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption spectrophotometry (EPA Method 7000 series).</p>			
SE-TOT-HVAAS-VA	Water	Total Selenium in Water by HVAAS	EPA 3005A/7000 SERIES
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption spectrophotometry (EPA Method 7000 series).</p>			
TDS-VA	Water	Total Dissolved Solids by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.</p>			
TKN-SIE-VA	Water	Total Kjeldahl Nitrogen by SIE	APHA 4500-Norg (TKN)
<p>This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 367 celcius with analysis using an ammonia selective electrode.</p>			
TL-CSR-MS-VA	Soil	ICPMS TI in Soil by CSR SALM	BCMELP CSR SALM Method 8
<p>This analysis is carried out using procedures from CSR Analytical Method 8 "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, Lands and Parks, 26 June 2001, and procedures adapted from "Test Methods for Evaluating Solid Waste", SW-846 Method 3050B United States Environmental Protection Agency (EPA). The sample is manually homogenized, dried at 60 degrees Celsius, sieved through a 2 mm</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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(10 mesh) sieve, and a representative subsample of the dry material is weighed. The sample is then digested at 90 degrees Celsius for 2 hours by either hotplate or block digester using a 1:1 ratio of concentrated nitric and hydrochloric acids. Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that may be environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.

TN-CALC-VA	Water	TN by Calc (TKN + N+N)	BC MOE LABORATORY MANUAL (2005)
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Total Nitrogen is determined by calculation by suming TKN and the NO₂ and NO₃ results.

TSS-VA	Water	Solids by Gravimetric	APHA 2540 Gravimetric
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This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.

TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
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This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
SK	ALS LABORATORY GROUP - SASKATOON, SASKATCHEWAN, CANADA	SR	Saskatchewan Research Council - Saskatoon, Saskatchewan, Can

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
VA		ALS LABORATORY GROUP - VANCOUVER, BC, CANADA	

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ANIONS-BR-IC-VA								
	Water							
Batch	R566145							
WG648121-6	MB							
Bromide (Br)			<0.050		mg/L		0.05	26-AUG-07
WG648121-8	MB							
Bromide (Br)			<0.050		mg/L		0.05	26-AUG-07
Batch	R566562							
WG648479-11	CRM	VA-ALLT-170088						
Bromide (Br)			99		%		90-110	27-AUG-07
WG648479-2	CRM	VA-ALLT-170088						
Bromide (Br)			97		%		90-110	27-AUG-07
WG648479-1	MB							
Bromide (Br)			<0.050		mg/L		0.05	27-AUG-07
WG648479-10	MB							
Bromide (Br)			<0.050		mg/L		0.05	27-AUG-07
WG648479-4	MB							
Bromide (Br)			<0.050		mg/L		0.05	27-AUG-07
WG648479-6	MB							
Bromide (Br)			<0.050		mg/L		0.05	27-AUG-07
WG648479-8	MB							
Bromide (Br)			<0.050		mg/L		0.05	27-AUG-07
ANIONS-CL-IC-VA								
	Water							
Batch	R566145							
WG648121-11	CRM	VA-ALLT-170088						
Chloride (Cl)			102		%		94-106	26-AUG-07
WG648121-2	CRM	VA-ALLT-170088						
Chloride (Cl)			104		%		94-106	26-AUG-07
WG648121-1	MB							
Chloride (Cl)			<0.50		mg/L		0.5	26-AUG-07
WG648121-10	MB							
Chloride (Cl)			<0.50		mg/L		0.5	26-AUG-07
WG648121-4	MB							
Chloride (Cl)			<0.50		mg/L		0.5	26-AUG-07
WG648121-6	MB							
Chloride (Cl)			<0.50		mg/L		0.5	26-AUG-07
WG648121-8	MB							
Chloride (Cl)			<0.50		mg/L		0.5	26-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ANIONS-CL-IC-VA								
	Water							
Batch	R566562							
WG648479-11	CRM	VA-ALLT-170088						
Chloride (Cl)			102		%		94-106	27-AUG-07
WG648479-2	CRM	VA-ALLT-170088						
Chloride (Cl)			102		%		94-106	27-AUG-07
WG648479-1	MB							
Chloride (Cl)			<0.50		mg/L		0.5	27-AUG-07
WG648479-10	MB							
Chloride (Cl)			<0.50		mg/L		0.5	27-AUG-07
WG648479-4	MB							
Chloride (Cl)			<0.50		mg/L		0.5	27-AUG-07
WG648479-6	MB							
Chloride (Cl)			<0.50		mg/L		0.5	27-AUG-07
WG648479-8	MB							
Chloride (Cl)			<0.50		mg/L		0.5	27-AUG-07
ANIONS-F-IC-VA								
	Water							
Batch	R566145							
WG648121-11	CRM	VA-ALLT-170088						
Fluoride (F)			102		%		93-107	26-AUG-07
WG648121-2	CRM	VA-ALLT-170088						
Fluoride (F)			104		%		93-107	26-AUG-07
WG648121-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	26-AUG-07
WG648121-10	MB							
Fluoride (F)			<0.020		mg/L		0.02	26-AUG-07
WG648121-4	MB							
Fluoride (F)			<0.020		mg/L		0.02	26-AUG-07
WG648121-6	MB							
Fluoride (F)			<0.020		mg/L		0.02	26-AUG-07
WG648121-8	MB							
Fluoride (F)			<0.020		mg/L		0.02	26-AUG-07
Batch	R566562							
WG648479-11	CRM	VA-ALLT-170088						
Fluoride (F)			103		%		93-107	27-AUG-07
WG648479-2	CRM	VA-ALLT-170088						
Fluoride (F)			101		%		93-107	27-AUG-07
WG648479-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	27-AUG-07
WG648479-10	MB							

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ANIONS-F-IC-VA		Water						
Batch	R566562							
WG648479-10	MB							
Fluoride (F)			<0.020		mg/L		0.02	27-AUG-07
WG648479-4	MB							
Fluoride (F)			<0.020		mg/L		0.02	27-AUG-07
WG648479-6	MB							
Fluoride (F)			<0.020		mg/L		0.02	27-AUG-07
WG648479-8	MB							
Fluoride (F)			<0.020		mg/L		0.02	27-AUG-07
ANIONS-NO2-IC-VA		Water						
Batch	R566145							
WG648121-11	CRM	VA-ALLT-170088						
Nitrite (as N)			102		%		91-109	26-AUG-07
WG648121-2	CRM	VA-ALLT-170088						
Nitrite (as N)			101		%		91-109	26-AUG-07
WG648121-1	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	26-AUG-07
WG648121-10	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	26-AUG-07
WG648121-4	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	26-AUG-07
WG648121-6	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	26-AUG-07
WG648121-8	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	26-AUG-07
Batch	R566562							
WG648479-11	CRM	VA-ALLT-170088						
Nitrite (as N)			100		%		91-109	27-AUG-07
WG648479-2	CRM	VA-ALLT-170088						
Nitrite (as N)			102		%		91-109	27-AUG-07
WG648479-1	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	27-AUG-07
WG648479-10	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	27-AUG-07
WG648479-4	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	27-AUG-07
WG648479-6	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	27-AUG-07
WG648479-8	MB							

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ANIONS-NO2-IC-VA								
	Water							
Batch	R566562							
WG648479-8	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	27-AUG-07
ANIONS-NO3-IC-VA								
	Water							
Batch	R566145							
WG648121-11	CRM	VA-ALLT-170088						
Nitrate (as N)			100		%		91-109	26-AUG-07
WG648121-2	CRM	VA-ALLT-170088						
Nitrate (as N)			104		%		91-109	26-AUG-07
WG648121-1	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	26-AUG-07
WG648121-10	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	26-AUG-07
WG648121-4	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	26-AUG-07
WG648121-6	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	26-AUG-07
WG648121-8	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	26-AUG-07
Batch	R566562							
WG648479-11	CRM	VA-ALLT-170088						
Nitrate (as N)			101		%		91-109	27-AUG-07
WG648479-2	CRM	VA-ALLT-170088						
Nitrate (as N)			101		%		91-109	27-AUG-07
WG648479-1	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	27-AUG-07
WG648479-10	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	27-AUG-07
WG648479-4	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	27-AUG-07
WG648479-6	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	27-AUG-07
WG648479-8	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	27-AUG-07
ANIONS-SO4-IC-VA								
	Water							

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ANIONS-SO4-IC-VA								
	Water							
Batch	R566145							
WG648121-11	CRM	VA-ALLT-170088						
Sulfate (SO4)			103		%		93-107	26-AUG-07
WG648121-2	CRM	VA-ALLT-170088						
Sulfate (SO4)			105		%		93-107	26-AUG-07
WG648121-1	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	26-AUG-07
WG648121-10	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	26-AUG-07
WG648121-4	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	26-AUG-07
WG648121-6	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	26-AUG-07
WG648121-8	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	26-AUG-07
Batch	R566562							
WG648479-11	CRM	VA-ALLT-170088						
Sulfate (SO4)			104		%		93-107	27-AUG-07
WG648479-2	CRM	VA-ALLT-170088						
Sulfate (SO4)			103		%		93-107	27-AUG-07
WG648479-1	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	27-AUG-07
WG648479-10	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	27-AUG-07
WG648479-4	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	27-AUG-07
WG648479-6	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	27-AUG-07
WG648479-8	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	27-AUG-07
CN-T-MID-HH-COL-VA								
	Water							
Batch	R567242							
WG649519-1	MB							
Cyanide, Total			<0.0050		mg/L		0.005	29-AUG-07
WG649519-3	MB							
Cyanide, Total			<0.0050		mg/L		0.005	29-AUG-07
EC-PCT-VA	Water							

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EC-PCT-VA								
	Water							
Batch	R565401							
WG647034-3	DUP	L544316-1						
Conductivity		417	423		uS/cm	1.4	20	24-AUG-07
WG647034-6	DUP	L544316-3						
Conductivity		279	283		uS/cm	1.4	20	24-AUG-07
WG647034-1	MB							
Conductivity			<2.0		uS/cm		2	24-AUG-07
Batch	R566237							
WG648325-2	DUP	L544316-8						
Conductivity		203	203		uS/cm	0.0	20	27-AUG-07
WG648325-1	MB							
Conductivity			<2.0		uS/cm		2	27-AUG-07
HG-DIS-CVAFS-VA								
	Water							
Batch	R566609							
WG648891-2	CRM	VA-HG-WATRM						
Mercury (Hg)-Dissolved			88		%		88-112	27-AUG-07
WG648891-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	27-AUG-07
Batch	R567058							
WG649489-2	CRM	VA-HG-WATRM						
Mercury (Hg)-Dissolved			91		%		88-112	28-AUG-07
WG649489-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	28-AUG-07
HG-TOT-CVAFS-VA								
	Water							
Batch	R565771							
WG647913-2	CRM	VA-HG-WATRM						
Mercury (Hg)-Total			94		%		88-112	24-AUG-07
WG647913-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	24-AUG-07
Batch	R566609							
WG648891-2	CRM	VA-HG-WATRM						
Mercury (Hg)-Total			88		%		88-112	27-AUG-07
WG648891-3	DUP	L544316-18						
Mercury (Hg)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	27-AUG-07
WG648891-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	27-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-TOT-CVAFS-VA								
	Water							
Batch	R568197							
WG650788-2	CRM	VA-HG-WATRM						
Mercury (Hg)-Total			96		%		88-112	30-AUG-07
WG650788-3	DUP	L544316-8						
Mercury (Hg)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	30-AUG-07
WG650788-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	30-AUG-07
MET-DIS-ICP-VA								
	Water							
Batch	R566997							
WG647828-5	CRM	VA-HIGH-WATRM						
Calcium (Ca)-Dissolved			104		%		85-115	28-AUG-07
Iron (Fe)-Dissolved			105		%		90-110	28-AUG-07
Magnesium (Mg)-Dissolved			103		%		85-115	28-AUG-07
Phosphorus (P)-Dissolved			99		%		90-110	28-AUG-07
Potassium (K)-Dissolved			101		%		85-115	28-AUG-07
Silicon (Si)-Dissolved			96		%		90-110	28-AUG-07
Sodium (Na)-Dissolved			99		%		85-115	28-AUG-07
Titanium (Ti)-Dissolved			105		%		90-110	28-AUG-07
WG647828-1	MB							
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	28-AUG-07
Iron (Fe)-Dissolved			<0.030		mg/L		0.03	28-AUG-07
Magnesium (Mg)-Dissolved			<0.10		mg/L		0.1	28-AUG-07
Phosphorus (P)-Dissolved			<0.30		mg/L		0.3	28-AUG-07
Potassium (K)-Dissolved			<2.0		mg/L		2	28-AUG-07
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	28-AUG-07
Sodium (Na)-Dissolved			<2.0		mg/L		2	28-AUG-07
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	28-AUG-07
MET-DIS-LOW-MS-VA								
	Water							
Batch	R566116							
WG647828-1	MB							
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	26-AUG-07
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	26-AUG-07
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	26-AUG-07
Barium (Ba)-Dissolved			<0.000050		mg/L		0.00005	26-AUG-07
Beryllium (Be)-Dissolved			<0.00050		mg/L		0.0005	26-AUG-07
Bismuth (Bi)-Dissolved			<0.00050		mg/L		0.0005	26-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-MS-VA								
	Water							
Batch	R566116							
WG647828-1	MB							
Boron (B)-Dissolved			<0.010		mg/L		0.01	26-AUG-07
Cadmium (Cd)-Dissolved			<0.000050		mg/L		0.00005	26-AUG-07
Chromium (Cr)-Dissolved			<0.00050		mg/L		0.0005	26-AUG-07
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	26-AUG-07
Copper (Cu)-Dissolved			<0.00010		mg/L		0.0001	26-AUG-07
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	26-AUG-07
Lithium (Li)-Dissolved			<0.0050		mg/L		0.005	26-AUG-07
Manganese (Mn)-Dissolved			<0.000050		mg/L		0.00005	26-AUG-07
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	26-AUG-07
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	26-AUG-07
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	26-AUG-07
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	26-AUG-07
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	26-AUG-07
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	26-AUG-07
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	26-AUG-07
Vanadium (V)-Dissolved			<0.0010		mg/L		0.001	26-AUG-07
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	26-AUG-07
Batch	R567375							
WG647828-5	CRM	VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			103		%		90-110	29-AUG-07
Antimony (Sb)-Dissolved			102		%		90-110	29-AUG-07
Arsenic (As)-Dissolved			103		%		90-110	29-AUG-07
Barium (Ba)-Dissolved			104		%		90-110	29-AUG-07
Beryllium (Be)-Dissolved			105		%		90-110	29-AUG-07
Bismuth (Bi)-Dissolved			102		%		90-110	29-AUG-07
Boron (B)-Dissolved			104		%		85-115	29-AUG-07
Cadmium (Cd)-Dissolved			101		%		90-110	29-AUG-07
Chromium (Cr)-Dissolved			106		%		90-110	29-AUG-07
Cobalt (Co)-Dissolved			105		%		90-110	29-AUG-07
Copper (Cu)-Dissolved			101		%		90-110	29-AUG-07
Lead (Pb)-Dissolved			105		%		90-110	29-AUG-07
Lithium (Li)-Dissolved			103		%		90-110	29-AUG-07
Manganese (Mn)-Dissolved			104		%		90-110	29-AUG-07

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MET-DIS-LOW-MS-VA								
	Water							
Batch	R567375							
WG647828-5	CRM	VA-HIGH-WATRM						
Molybdenum (Mo)-Dissolved			106		%		90-110	29-AUG-07
Nickel (Ni)-Dissolved			105		%		90-110	29-AUG-07
Silver (Ag)-Dissolved			104		%		90-110	29-AUG-07
Strontium (Sr)-Dissolved			105		%		90-110	29-AUG-07
Thallium (Tl)-Dissolved			102		%		85-115	29-AUG-07
Tin (Sn)-Dissolved			103		%		90-110	29-AUG-07
Uranium (U)-Dissolved			103		%		90-110	29-AUG-07
Vanadium (V)-Dissolved			106		%		90-110	29-AUG-07
Zinc (Zn)-Dissolved			104		%		85-115	29-AUG-07
MET-TOT-ICP-VA								
	Water							
Batch	R566933							
WG647759-3	DUP	L544316-4						
Calcium (Ca)-Total		37.4	37.6		mg/L	0.75	20	28-AUG-07
Iron (Fe)-Total		0.108	0.106	J	mg/L	0.002	0.12	28-AUG-07
Magnesium (Mg)-Total		17.0	17.0		mg/L	0.33	20	28-AUG-07
Phosphorus (P)-Total		<0.30	<0.30	RPD-NA	mg/L	N/A	20	28-AUG-07
Potassium (K)-Total		<2.0	<2.0	RPD-NA	mg/L	N/A	20	28-AUG-07
Silicon (Si)-Total		4.48	4.50		mg/L	0.44	20	28-AUG-07
Sodium (Na)-Total		3.8	3.7	J	mg/L	0.1	8	28-AUG-07
Titanium (Ti)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	28-AUG-07
Batch	R566997							
WG647759-11	CRM	VA-HIGH-WATRM						
Calcium (Ca)-Total			105		%		85-115	28-AUG-07
Iron (Fe)-Total			105		%		90-110	28-AUG-07
Magnesium (Mg)-Total			104		%		85-115	28-AUG-07
Phosphorus (P)-Total			101		%		90-110	28-AUG-07
Potassium (K)-Total			100		%		85-115	28-AUG-07
Silicon (Si)-Total			96		%		90-110	28-AUG-07
Sodium (Na)-Total			99		%		85-115	28-AUG-07
Titanium (Ti)-Total			104		%		90-110	28-AUG-07
WG647759-1	MB							
Calcium (Ca)-Total			<0.050		mg/L		0.05	28-AUG-07
Iron (Fe)-Total			<0.030		mg/L		0.03	28-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TOT-ICP-VA								
	Water							
Batch	R566997							
WG647759-1	MB							
Magnesium (Mg)-Total			<0.10		mg/L		0.1	28-AUG-07
Phosphorus (P)-Total			<0.30		mg/L		0.3	28-AUG-07
Potassium (K)-Total			<2.0		mg/L		2	28-AUG-07
Silicon (Si)-Total			<0.050		mg/L		0.05	28-AUG-07
Sodium (Na)-Total			<2.0		mg/L		2	28-AUG-07
Titanium (Ti)-Total			<0.010		mg/L		0.01	28-AUG-07
Batch	R568599							
WG647192-5	DUP	L544316-2						
Calcium (Ca)-Total		52.3	52.7		mg/L	0.72	20	31-AUG-07
Iron (Fe)-Total		0.274	0.239	J	mg/L	0.035	0.12	31-AUG-07
Magnesium (Mg)-Total		23.2	23.5		mg/L	1.5	20	31-AUG-07
Phosphorus (P)-Total		<0.30	<0.30	RPD-NA	mg/L	N/A	20	31-AUG-07
Potassium (K)-Total		<2.0	<2.0	RPD-NA	mg/L	N/A	20	31-AUG-07
Silicon (Si)-Total		5.37	5.48		mg/L	2.0	20	31-AUG-07
Sodium (Na)-Total		<2.0	<2.0	RPD-NA	mg/L	N/A	20	31-AUG-07
Titanium (Ti)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	31-AUG-07
MET-TOT-LOW-MS-VA								
	Water							
Batch	R565841							
WG647192-1	MB							
Aluminum (Al)-Total			<0.0010		mg/L		0.001	24-AUG-07
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	24-AUG-07
Arsenic (As)-Total			<0.00010		mg/L		0.0001	24-AUG-07
Barium (Ba)-Total			<0.000050		mg/L		0.00005	24-AUG-07
Beryllium (Be)-Total			<0.00050		mg/L		0.0005	24-AUG-07
Bismuth (Bi)-Total			<0.00050		mg/L		0.0005	24-AUG-07
Boron (B)-Total			<0.010		mg/L		0.01	24-AUG-07
Cadmium (Cd)-Total			<0.000050		mg/L		0.00005	24-AUG-07
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	24-AUG-07
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	24-AUG-07
Copper (Cu)-Total			<0.00010		mg/L		0.0001	24-AUG-07
Lead (Pb)-Total			<0.000050		mg/L		0.00005	24-AUG-07
Lithium (Li)-Total			<0.0050		mg/L		0.005	24-AUG-07
Manganese (Mn)-Total			<0.000050		mg/L		0.00005	24-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TOT-LOW-MS-VA	Water							
Batch	R565841							
WG647192-1 MB								
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	24-AUG-07
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	24-AUG-07
Silver (Ag)-Total			<0.000010		mg/L		0.00001	24-AUG-07
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	24-AUG-07
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	24-AUG-07
Tin (Sn)-Total			<0.00010		mg/L		0.0001	24-AUG-07
Uranium (U)-Total			<0.000010		mg/L		0.00001	24-AUG-07
Vanadium (V)-Total			<0.0010		mg/L		0.001	24-AUG-07
Zinc (Zn)-Total			<0.0010		mg/L		0.001	24-AUG-07
Batch	R566116							
WG647759-1 MB								
Aluminum (Al)-Total			<0.0080		mg/L		0.008	26-AUG-07
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	26-AUG-07
Arsenic (As)-Total			<0.00010		mg/L		0.0001	26-AUG-07
Barium (Ba)-Total			<0.000050		mg/L		0.00005	26-AUG-07
Beryllium (Be)-Total			<0.00050		mg/L		0.0005	26-AUG-07
Bismuth (Bi)-Total			<0.00050		mg/L		0.0005	26-AUG-07
Boron (B)-Total			<0.010		mg/L		0.01	26-AUG-07
Cadmium (Cd)-Total			<0.000050		mg/L		0.00005	26-AUG-07
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	26-AUG-07
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	26-AUG-07
Copper (Cu)-Total			<0.00010		mg/L		0.0001	26-AUG-07
Lead (Pb)-Total			<0.000050		mg/L		0.00005	26-AUG-07
Lithium (Li)-Total			<0.0050		mg/L		0.005	26-AUG-07
Manganese (Mn)-Total			<0.000050		mg/L		0.00005	26-AUG-07
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	26-AUG-07
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	26-AUG-07
Silver (Ag)-Total			<0.000010		mg/L		0.00001	26-AUG-07
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	26-AUG-07
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	26-AUG-07
Tin (Sn)-Total			<0.00010		mg/L		0.0001	26-AUG-07
Uranium (U)-Total			<0.000010		mg/L		0.00001	26-AUG-07
Vanadium (V)-Total			<0.0010		mg/L		0.001	26-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TOT-LOW-MS-VA	Water							
Batch R566116								
WG647759-1 MB								
Zinc (Zn)-Total			<0.0010		mg/L		0.001	26-AUG-07
Batch R567375								
WG647759-11 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Total			103		%		90-110	29-AUG-07
Antimony (Sb)-Total			101		%		90-110	29-AUG-07
Arsenic (As)-Total			103		%		90-110	29-AUG-07
Barium (Ba)-Total			103		%		90-110	29-AUG-07
Beryllium (Be)-Total			102		%		90-110	29-AUG-07
Bismuth (Bi)-Total			100		%		90-110	29-AUG-07
Boron (B)-Total			103		%		85-115	29-AUG-07
Cadmium (Cd)-Total			100		%		90-110	29-AUG-07
Chromium (Cr)-Total			104		%		90-110	29-AUG-07
Cobalt (Co)-Total			103		%		90-110	29-AUG-07
Copper (Cu)-Total			99		%		90-110	29-AUG-07
Lead (Pb)-Total			103		%		90-110	29-AUG-07
Lithium (Li)-Total			103		%		90-110	29-AUG-07
Manganese (Mn)-Total			102		%		90-110	29-AUG-07
Molybdenum (Mo)-Total			103		%		90-110	29-AUG-07
Nickel (Ni)-Total			105		%		90-110	29-AUG-07
Silver (Ag)-Total			104		%		90-110	29-AUG-07
Strontium (Sr)-Total			104		%		90-110	29-AUG-07
Thallium (Tl)-Total			101		%		85-115	29-AUG-07
Tin (Sn)-Total			100		%		90-110	29-AUG-07
Uranium (U)-Total			102		%		90-110	29-AUG-07
Vanadium (V)-Total			104		%		90-110	29-AUG-07
Zinc (Zn)-Total			103		%		85-115	29-AUG-07
Batch R568594								
WG647759-3 DUP		L544316-4						
Antimony (Sb)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	31-AUG-07
Arsenic (As)-Total		0.00093	0.00095	J	mg/L	0.00001	0.0004	31-AUG-07
Barium (Ba)-Total		0.0101	0.0101		mg/L	0.092	20	31-AUG-07
Beryllium (Be)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	31-AUG-07

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MET-TOT-LOW-MS-VA								
	Water							
Batch	R568594							
WG647759-3	DUP	L544316-4						
Bismuth (Bi)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	31-AUG-07
Boron (B)-Total		0.015	0.016	J	mg/L	0.001	0.04	31-AUG-07
Cadmium (Cd)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	31-AUG-07
Chromium (Cr)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	31-AUG-07
Cobalt (Co)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	31-AUG-07
Copper (Cu)-Total		0.00027	0.00030	J	mg/L	0.00003	0.0004	31-AUG-07
Lead (Pb)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	31-AUG-07
Lithium (Li)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	31-AUG-07
Manganese (Mn)-Total		0.0155	0.0159		mg/L	2.3	20	31-AUG-07
Molybdenum (Mo)-Total		0.000063	0.000072	J	mg/L	0.000009	0.0002	31-AUG-07
Nickel (Ni)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	31-AUG-07
Silver (Ag)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	31-AUG-07
Strontium (Sr)-Total		0.0515	0.0515		mg/L	0.11	20	31-AUG-07
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	31-AUG-07
Tin (Sn)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	31-AUG-07
Uranium (U)-Total		0.000076	0.000072	J	mg/L	0.000005	0.00004	31-AUG-07
Vanadium (V)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	31-AUG-07
Zinc (Zn)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	31-AUG-07
Batch	R569241							
WG647192-5	DUP	L544316-2						
Aluminum (Al)-Total		<0.011	<0.011	RPD-NA	mg/L	N/A	20	04-SEP-07
Antimony (Sb)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-SEP-07
Arsenic (As)-Total		0.00051	0.00053	J	mg/L	0.00002	0.0004	04-SEP-07
Barium (Ba)-Total		0.0232	0.0240		mg/L	3.5	20	04-SEP-07
Beryllium (Be)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	04-SEP-07
Bismuth (Bi)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	04-SEP-07
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	04-SEP-07
Cadmium (Cd)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	04-SEP-07
Chromium (Cr)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	04-SEP-07
Cobalt (Co)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-SEP-07
Copper (Cu)-Total		<0.00070	<0.00070	RPD-NA	mg/L	N/A	20	04-SEP-07
Lead (Pb)-Total		<0.000070	<0.000070	RPD-NA	mg/L	N/A	20	04-SEP-07
Lithium (Li)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	04-SEP-07

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MET-TOT-LOW-MS-VA								
	Water							
Batch	R569241							
WG647192-5	DUP	L544316-2						
Manganese (Mn)-Total		0.0244	0.0226		mg/L	7.7	20	04-SEP-07
Molybdenum (Mo)-Total		0.000073	0.000057	J	mg/L	0.000016	0.0002	04-SEP-07
Nickel (Ni)-Total		0.00066	<0.00050	RPD-NA	mg/L	N/A	20	04-SEP-07
Silver (Ag)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	04-SEP-07
Strontium (Sr)-Total		0.0496	0.0506		mg/L	1.8	20	04-SEP-07
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-SEP-07
Tin (Sn)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-SEP-07
Uranium (U)-Total		0.000034	0.000038	J	mg/L	0.000004	0.00004	04-SEP-07
Vanadium (V)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	04-SEP-07
Zinc (Zn)-Total		<0.0040	<0.0040	RPD-NA	mg/L	N/A	20	04-SEP-07
Batch	R569607							
WG647759-3	DUP	L544316-4						
Aluminum (Al)-Total		0.0210	0.0171		mg/L	20	20	04-SEP-07
NH3-SIE-VA								
	Water							
Batch	R565290							
WG647446-2	CRM	VA-SPXNUT-22-16						
Ammonia as N			105		%		86-114	23-AUG-07
WG647446-3	DUP	L544316-2						
Ammonia as N		0.020	0.021	J	mg/L	0.001	0.08	23-AUG-07
WG647446-1	MB							
Ammonia as N			<0.020		mg/L		0.02	23-AUG-07
Batch	R567042							
WG649501-2	CRM	VA-SPXNUT-22-16						
Ammonia as N			105		%		86-114	28-AUG-07
WG649501-3	DUP	L544316-19						
Ammonia as N		0.047	0.052	J	mg/L	0.005	0.08	28-AUG-07
WG649501-1	MB							
Ammonia as N			<0.020		mg/L		0.02	28-AUG-07
PH-PCT-VA								
	Water							
Batch	R565401							
WG647034-9	CRM	VA-PH7-BUF						
pH			7.03		pH		6.97-7.03	24-AUG-07
WG647034-3	DUP	L544316-1						
pH		8.04	8.12		pH	1.0	20	24-AUG-07

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PH-PCT-VA		Water						
Batch	R565401							
WG647034-6	DUP	L544316-3						
pH		8.17	8.18		pH	0.15	20	24-AUG-07
WG647034-1	MB							
pH			5.33	A	pH		0.01	24-AUG-07
Batch	R566237							
WG648325-5	CRM	VA-PH7-BUF						
pH			7.04	G	pH		6.97-7.03	27-AUG-07
WG648325-2	DUP	L544316-8						
pH		8.07	8.08		pH	0.18	20	27-AUG-07
WG648325-1	MB							
pH			5.79	A	pH		0.01	27-AUG-07
SE-DIS-HVAAS-VA		Water						
Batch	R566847							
WG647828-5	CRM	VA-HIGH-WATRM						
Selenium (Se)-Dissolved			106		%		90-110	28-AUG-07
Batch	R569488							
WG647828-1	MB							
Selenium (Se)-Dissolved			<0.00050		mg/L		0.0005	04-SEP-07
SE-TOT-HVAAS-VA		Water						
Batch	R566527							
WG647759-3	DUP	L544316-4						
Selenium (Se)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	27-AUG-07
Batch	R566847							
WG647759-11	CRM	VA-HIGH-WATRM						
Selenium (Se)-Total			101		%		90-110	28-AUG-07
WG647192-5	DUP	L544316-2						
Selenium (Se)-Total		<0.00050	0.00662	G	mg/L	N/A	20	28-AUG-07
WG647759-1	MB							
Selenium (Se)-Total			<0.00050		mg/L		0.0005	28-AUG-07
TDS-VA		Water						
Batch	R566398							
WG647978-1	MB							
Total Dissolved Solids			<10		mg/L		10	27-AUG-07

ALS Laboratory Group Quality Control Report

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-VA	Water							
Batch R567652								
WG648922-1 MB								
Total Dissolved Solids			<10		mg/L		10	29-AUG-07
TKN-SIE-VA	Water							
Batch R566786								
WG649225-2 CRM		VA-TKN-CSPK1						
Total Kjeldahl Nitrogen			103		%		85-115	28-AUG-07
WG649225-3 CRM		VA-TKN-CSPK25						
Total Kjeldahl Nitrogen			101		%		85-115	28-AUG-07
WG649225-4 DUP		L544316-1						
Total Kjeldahl Nitrogen		0.524	0.503		mg/L	4.1	20	28-AUG-07
WG649225-1 MB								
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	28-AUG-07
Batch R567115								
WG649563-2 CRM		VA-TKN-CSPK1						
Total Kjeldahl Nitrogen			95		%		85-115	28-AUG-07
WG649563-3 CRM		VA-TKN-CSPK25						
Total Kjeldahl Nitrogen			104		%		85-115	28-AUG-07
WG649563-4 DUP		L544316-7						
Total Kjeldahl Nitrogen		0.941	0.865		mg/L	8.4	20	28-AUG-07
WG649563-1 MB								
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	28-AUG-07
TSS-VA	Water							
Batch R566399								
WG647975-1 MB								
Total Suspended Solids			<3.0		mg/L		3	27-AUG-07
TURBIDITY-VA	Water							
Batch R565276								
WG647418-2 CRM		VA-TURB-SPK-8						
Turbidity			99		%		85-115	23-AUG-07
WG647418-8 DUP		L544316-18						
Turbidity		0.65	0.67	J	NTU	0.010	0.4	23-AUG-07
WG647418-1 MB								
Turbidity			<0.10		NTU		0.1	23-AUG-07

ALS Laboratory Group Quality Control Report

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TURBIDITY-VA								
	Water							
Batch	R566582							
WG648804-2	CRM	VA-TURB-SPK-8						
Turbidity			97		%		85-115	27-AUG-07
WG648804-1	MB							
Turbidity			<0.10		NTU		0.1	27-AUG-07
C-TOT-ORG-LECO-SK								
	Soil							
Batch	R567125							
WG648883-1	DUP	L544316-12						
Organic Carbon		3.59	3.60		%	0.13	26	28-AUG-07
HG-CCME-CVAFS-VA								
	Soil							
Batch	R565826							
WG646543-3	CRM	VA-CANMET-TILL1						
Mercury (Hg)			117		%		86-139	24-AUG-07
WG646543-4	CRM	VA-NRC-PACS2						
Mercury (Hg)			99		%		85-116	24-AUG-07
WG646543-1	MB							
Mercury (Hg)			<0.0050		mg/kg		0.005	24-AUG-07
WG646543-2	MB							
Mercury (Hg)			<0.0050		mg/kg		0.005	24-AUG-07
Batch	R566307							
WG647270-3	CRM	VA-CANMET-TILL1						
Mercury (Hg)			102		%		86-139	27-AUG-07
WG647270-4	CRM	VA-NRC-PACS2						
Mercury (Hg)			99		%		85-116	27-AUG-07
WG647270-1	MB							
Mercury (Hg)			<0.0050		mg/kg		0.005	27-AUG-07
WG647270-2	MB							
Mercury (Hg)			<0.0050		mg/kg		0.005	27-AUG-07
MET-CSR-FULL-ICP-VA								
	Soil							
Batch	R565837							
WG647270-3	CRM	VA-CANMET-TILL1						
Arsenic (As)			98		%		94-106	24-AUG-07
Barium (Ba)			13		%		11-14	24-AUG-07
Beryllium (Be)			21		%		18-22	24-AUG-07
Chromium (Cr)			41		%		39-50	24-AUG-07
Cobalt (Co)			72		%		67-77	24-AUG-07

ALS Laboratory Group Quality Control Report

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-CSR-FULL-ICP-VA								
	Soil							
Batch	R565837							
WG647270-3	CRM	VA-CANMET-TILL1						
Copper (Cu)			105		%		93-112	24-AUG-07
Nickel (Ni)			67	G	%		71-83	24-AUG-07
Vanadium (V)			61		%		53-68	24-AUG-07
Zinc (Zn)			72		%		66-81	24-AUG-07
WG647270-4	CRM	VA-NRC-PACS2						
Arsenic (As)			109		%		91-115	24-AUG-07
Beryllium (Be)			15		%		10-20	24-AUG-07
Cadmium (Cd)			90		%		80-148	24-AUG-07
Chromium (Cr)			50	G	%		52-58	24-AUG-07
Cobalt (Co)			73		%		70-79	24-AUG-07
Copper (Cu)			107		%		95-115	24-AUG-07
Lead (Pb)			87		%		85-109	24-AUG-07
Nickel (Ni)			74	G	%		74-88	24-AUG-07
Tin (Sn)			105		%		97-115	24-AUG-07
Vanadium (V)			58		%		56-64	24-AUG-07
Zinc (Zn)			92		%		89-107	24-AUG-07
WG647270-1	MB							
Antimony (Sb)			<10		mg/kg		10	24-AUG-07
Arsenic (As)			<5.0		mg/kg		5	24-AUG-07
Barium (Ba)			<1.0		mg/kg		1	24-AUG-07
Beryllium (Be)			<0.50		mg/kg		0.5	24-AUG-07
Cadmium (Cd)			<0.50		mg/kg		0.5	24-AUG-07
Chromium (Cr)			<2.0		mg/kg		2	24-AUG-07
Cobalt (Co)			<2.0		mg/kg		2	24-AUG-07
Copper (Cu)			<1.0		mg/kg		1	24-AUG-07
Lead (Pb)			<30		mg/kg		30	24-AUG-07
Molybdenum (Mo)			<4.0		mg/kg		4	24-AUG-07
Nickel (Ni)			<5.0		mg/kg		5	24-AUG-07
Selenium (Se)			<2.0		mg/kg		2	24-AUG-07
Silver (Ag)			<2.0		mg/kg		2	24-AUG-07
Tin (Sn)			<5.0		mg/kg		5	24-AUG-07
Vanadium (V)			<2.0		mg/kg		2	24-AUG-07
Zinc (Zn)			<1.0		mg/kg		1	24-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-CSR-FULL-ICP-VA Soil								
Batch R565837								
WG647270-2 MB								
Antimony (Sb)			<10		mg/kg		10	24-AUG-07
Arsenic (As)			<5.0		mg/kg		5	24-AUG-07
Barium (Ba)			<1.0		mg/kg		1	24-AUG-07
Beryllium (Be)			<0.50		mg/kg		0.5	24-AUG-07
Cadmium (Cd)			<0.50		mg/kg		0.5	24-AUG-07
Chromium (Cr)			<2.0		mg/kg		2	24-AUG-07
Cobalt (Co)			<2.0		mg/kg		2	24-AUG-07
Copper (Cu)			<1.0		mg/kg		1	24-AUG-07
Lead (Pb)			<30		mg/kg		30	24-AUG-07
Molybdenum (Mo)			<4.0		mg/kg		4	24-AUG-07
Nickel (Ni)			<5.0		mg/kg		5	24-AUG-07
Selenium (Se)			<2.0		mg/kg		2	24-AUG-07
Silver (Ag)			<2.0		mg/kg		2	24-AUG-07
Tin (Sn)			<5.0		mg/kg		5	24-AUG-07
Vanadium (V)			<2.0		mg/kg		2	24-AUG-07
Zinc (Zn)			<1.0		mg/kg		1	24-AUG-07
Batch R566382								
WG646543-3 CRM VA-CANMET-TILL1								
Arsenic (As)			93	G	%		94-106	27-AUG-07
Barium (Ba)			13		%		11-14	27-AUG-07
Beryllium (Be)			22		%		18-22	27-AUG-07
Chromium (Cr)			40		%		39-50	27-AUG-07
Cobalt (Co)			68		%		67-77	27-AUG-07
Copper (Cu)			102		%		93-112	27-AUG-07
Nickel (Ni)			67	G	%		71-83	27-AUG-07
Vanadium (V)			63		%		53-68	27-AUG-07
Zinc (Zn)			71		%		66-81	27-AUG-07
WG646543-4 CRM VA-NRC-PACS2								
Arsenic (As)			111		%		91-115	27-AUG-07
Beryllium (Be)			17		%		10-20	27-AUG-07
Cadmium (Cd)			102		%		80-148	27-AUG-07
Chromium (Cr)			56		%		52-58	27-AUG-07
Cobalt (Co)			77		%		70-79	27-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-CSR-FULL-ICP-VA	Soil							
Batch	R566382							
WG646543-4	CRM	VA-NRC-PACS2						
Copper (Cu)			111		%		95-115	27-AUG-07
Lead (Pb)			106		%		85-109	27-AUG-07
Nickel (Ni)			83		%		74-88	27-AUG-07
Tin (Sn)			111		%		97-115	27-AUG-07
Vanadium (V)			66	G	%		56-64	27-AUG-07
Zinc (Zn)			104		%		89-107	27-AUG-07
WG646543-1	MB							
Antimony (Sb)			<10		mg/kg		10	27-AUG-07
Arsenic (As)			<5.0		mg/kg		5	27-AUG-07
Barium (Ba)			<1.0		mg/kg		1	27-AUG-07
Beryllium (Be)			<0.50		mg/kg		0.5	27-AUG-07
Cadmium (Cd)			<0.50		mg/kg		0.5	27-AUG-07
Chromium (Cr)			<2.0		mg/kg		2	27-AUG-07
Cobalt (Co)			<2.0		mg/kg		2	27-AUG-07
Copper (Cu)			<1.0		mg/kg		1	27-AUG-07
Lead (Pb)			<30		mg/kg		30	27-AUG-07
Molybdenum (Mo)			<4.0		mg/kg		4	27-AUG-07
Nickel (Ni)			<5.0		mg/kg		5	27-AUG-07
Selenium (Se)			<2.0		mg/kg		2	27-AUG-07
Silver (Ag)			<2.0		mg/kg		2	27-AUG-07
Tin (Sn)			<5.0		mg/kg		5	27-AUG-07
Vanadium (V)			<2.0		mg/kg		2	27-AUG-07
Zinc (Zn)			<1.0		mg/kg		1	27-AUG-07
WG646543-2	MB							
Antimony (Sb)			<10		mg/kg		10	27-AUG-07
Arsenic (As)			<5.0		mg/kg		5	27-AUG-07
Barium (Ba)			<1.0		mg/kg		1	27-AUG-07
Beryllium (Be)			<0.50		mg/kg		0.5	27-AUG-07
Cadmium (Cd)			<0.50		mg/kg		0.5	27-AUG-07
Chromium (Cr)			<2.0		mg/kg		2	27-AUG-07
Cobalt (Co)			<2.0		mg/kg		2	27-AUG-07
Copper (Cu)			<1.0		mg/kg		1	27-AUG-07
Lead (Pb)			<30		mg/kg		30	27-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-CSR-FULL-ICP-VA								
	Soil							
Batch	R566382							
WG646543-2	MB							
Molybdenum (Mo)			<4.0		mg/kg		4	27-AUG-07
Nickel (Ni)			<5.0		mg/kg		5	27-AUG-07
Selenium (Se)			<2.0		mg/kg		2	27-AUG-07
Silver (Ag)			<2.0		mg/kg		2	27-AUG-07
Tin (Sn)			<5.0		mg/kg		5	27-AUG-07
Vanadium (V)			<2.0		mg/kg		2	27-AUG-07
Zinc (Zn)			<1.0		mg/kg		1	27-AUG-07
MOISTURE-VA								
	Soil							
Batch	R564832							
WG646718-1	DUP	L544316-13						
% Moisture		22.7	22.9		%	0.62	30	23-AUG-07
PSA-PIPET-DETAIL-SK								
	Soil							
Batch	R567039							
WG648581-1	DUP	L544316-13						
% Gravel (>2mm)		5	5	J	%	0	4	28-AUG-07
% Sand (2.00mm - 1.00mm)		1	2	J	%	1	4	28-AUG-07
% Sand (1.00mm - 0.50mm)		5	6	J	%	1	4	28-AUG-07
% Sand (0.50mm - 0.25mm)		6	5	J	%	1	4	28-AUG-07
% Sand (0.25mm - 0.125mm)		3	3	J	%	0	4	28-AUG-07
% Sand (0.125mm - 0.063mm)		3	2	J	%	0	4	28-AUG-07
% Silt (0.063mm - 0.0312mm)		7	7	J	%	0	4	28-AUG-07
% Silt (0.0312mm - 0.004mm)		20	20	J	%	1	5	28-AUG-07
% Clay (<4um)		51	51	J	%	0	5	28-AUG-07
TL-CSR-MS-VA								
	Soil							
Batch	R567328							
WG646543-1	MB							
Thallium (Tl)			<1.0		mg/kg		1	29-AUG-07
WG646543-2	MB							
Thallium (Tl)			<1.0		mg/kg		1	29-AUG-07
WG647270-1	MB							
Thallium (Tl)			<1.0		mg/kg		1	29-AUG-07
WG647270-2	MB							
Thallium (Tl)			<1.0		mg/kg		1	29-AUG-07

ALS Laboratory Group Quality Control Report

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Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Qualifier:

RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.
A	Method blank exceeds acceptance limit. Blank correction not applied, unless the qualifier "RAMB" (result adjusted for method blank) appears in the Analytical Report.
B	Method blank result exceeds acceptance limit, however, it is less than 5% of sample concentration. Blank correction not applied.
E	Matrix spike recovery may fall outside the acceptance limits due to high sample background.
F	Silver recovery low, likely due to elevated chloride levels in sample.
G	Outlier - No assignable cause for nonconformity has been determined.
J	Duplicate results and limit(s) are expressed in terms of absolute difference.
K	The sample referenced above is of a non-standard matrix type; standard QC acceptance criteria may not be achievable.
L	Low matrix spike recovery due to instability of spiked analyte in the sample matrix.

Sep 04, 2007

SRC ANALYTICAL

422 Downey Road
Saskatoon, Saskatchewan, Canada
S7N 4N1
(306) 933-6932 or 1-800-240-8808
Fax: (306) 933-7922

ALS
Aurora Laboratory Services Ltd.
1988 Triumph Street
Vancouver, British Columbia V5L 1K5
Attn: Jerry

Sample #	27157	Client PO #:	LW11953
Date Sampled:		Date Received:	Aug 22, 2007
Sample Matrix:	WATER		
Description:	L544316-1 OCW2 AUG 15/07		

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Sep 02, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

Sep 04, 2007

ALS, Aurora Laboratory Services Ltd.

Page 2 of 7

Sample # **27158**

Client PO #: **LW11953**

Date Sampled:

Date Received: **Aug 22, 2007**

Sample Matrix: **WATER**

Description: **L544316-2 OCW3 AUG 15/07**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Sep 02, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

Sep 04, 2007

ALS, Aurora Laboratory Services Ltd.

Page 3 of 7

Sample # **27159** Client PO #: **LW11953**
Date Sampled: Date Received: **Aug 22, 2007**
Sample Matrix: **WATER**
Description: **L544316-3 AUG-DUP1**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Sep 02, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

Sep 04, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **27160** Client PO #: **LW11953**
Date Sampled: Date Received: **Aug 22, 2007**
Sample Matrix: **WATER**
Description: **L544316-4 MRW1**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.006	0.005	Sep 02, 2007

SRC ANALYTICAL

Sep 04, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **27161**

Client PO #: **LW11953**

Date Sampled:

Date Received: **Aug 22, 2007**

Sample Matrix: **WATER**

Description: **L544316-5 MRW2**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Sep 02, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

Sep 04, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **27162**

Client PO #: **LW11953**

Date Sampled:

Date Received: **Aug 22, 2007**

Sample Matrix: **WATER**

Description: **L544316-6 MRW3**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Sep 02, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

422 Downey Road
Saskatoon, Saskatchewan, Canada
S7N 4N1
(306) 933-6932 or 1-800-240-8808
Fax: (306) 933-7922

Sep 06, 2007

ALS
Aurora Laboratory Services Ltd.
1988 Triumph Street
Vancouver, British Columbia V5L 1K5
Attn: Jerry Holzbecher

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Sample # **27501** Client PO #: **LW12064**
Date Sampled: Date Received: **Aug 27, 2007**
Sample Matrix: **WATER**
Description: **L544316-7 WRW2**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.01	0.005	Sep 06, 2007

SRC ANALYTICAL

Sep 06, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **27502**

Client PO #: **LW12064**

Date Sampled:

Date Received: **Aug 27, 2007**

Sample Matrix: **WATER**

Description: **L544316-8 HRW1**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.01	0.005	Sep 06, 2007

SRC ANALYTICAL

Sep 04, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **27163**

Client PO #: **LW11953**

Date Sampled:

Date Received: **Aug 22, 2007**

Sample Matrix: **WATER**

Description: **L544316-18 OCW3 AUG 13/07**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Sep 02, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

Sep 06, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **27503**

Client PO #: **LW12064**

Date Sampled:

Date Received: **Aug 27, 2007**

Sample Matrix: **WATER**

Description: **L544316-19 WRW1**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.005	0.005	Sep 06, 2007



ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

**CHAIN OF CUSTODY
ANALYTICAL REQUEST FORM**

12 - 1329 Niakwa Road East
Winnipeg, Manitoba, Canada R2J 3T4
Tel: (204) 255-9720
Fax (204) 255-9721
Toll Free: 1-800-607-7555

LS44316

DATE SUBMITTED: Aug 16 2007 DATE REQUIRED:

SERVICE REQUESTED:
 REGULAR PRIORITY (50% SURCHARGE) EMERGENCY (100% SURCHARGE)
 PRICING (CHECK ONE):
 AS PER QUOTE #:
 AS PER LIST PRICE:

ANALYSIS REQUESTED:
 LAB USE ONLY
 General Parameters
 Radium 226
 Cyanide
 Total Metals
 (Soil Pres)
 Dissolved Metals
 (Soil Pres)
 TK N
 Ammonia - N

SAMPLE ID	SAMPLED BY	DATE / TIME SAMPLED	SAMPLE TYPE	LAB SAMPLE NO.
OCW1	JP/CB	Aug 13/07	Surface Water	
OCW2		Aug 15/07		
OCW3		Aug 15/07		
Aug-DUPI		Aug 16/07		
MRW1		Aug 13/07		
MRW2		Aug 15/07		
MRW3		Aug 16/07		
WRW1		Aug 14/07		
WRW2		Aug 14/07		
HRW1		Aug 13/07		

NOTES & CONDITIONS:

1. Quote number must be provided to ensure proper pricing.

2. All hazardous samples submitted must be labeled to comply with WHMIS regulations. This must include the nature of the hazard, as well as a contact name and phone number that the lab can contact for further information.

3. ALS's liability limited to cost of analysis.

NOTE: Failure to properly complete all portions of this form may delay analysis.

NO. SAMPLES SUBMITTED: 70

NO. BOTTLES/SAMPLES: 7 per location 1 per parameter each container

PHONE: 604 681 1672

FAX: 604 687 3446

E-MAIL: YES NO

E-MAIL ADDRESS: James - Pubbs@arscorp.com

PC NO.: Keith-mountjoy

JOB NO.: 3954 8827

NOTE: Shaded areas MUST be completed in full by client for sample processing to occur.

CLIENT: VRS Keith Mountjoy

CONTACT: Same

REPORT ADDRESS: 650 West Georgia St

Vancouver, BC, V6B 4M7

BILLING ADDRESS: Same

ALS contact: Jerry Holz

RELINQUISHED BY: James Pubbs
 RECEIVED BY: HD
 DATE: 8/16/07
 TIME: 17:30
 RELINQUISHED BY: _____
 RECEIVED BY: _____
 DATE: _____
 TIME: _____

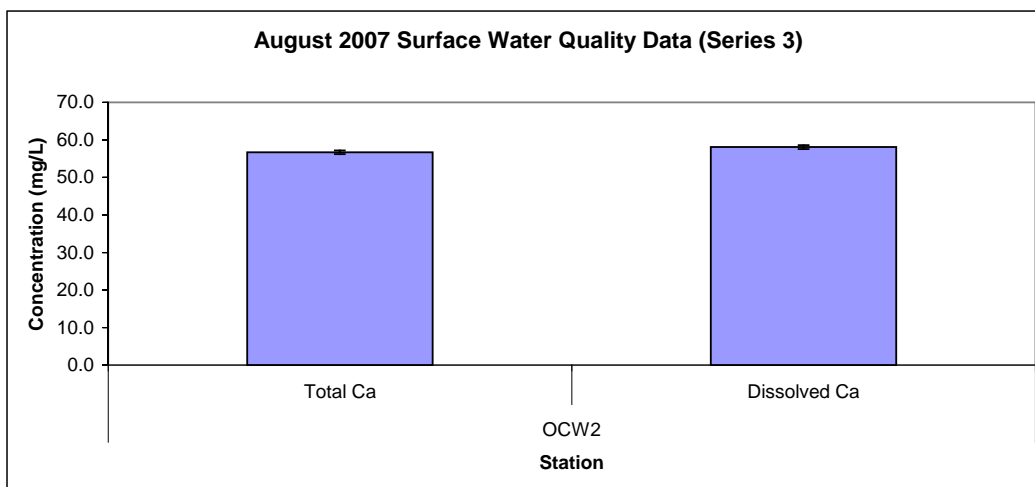
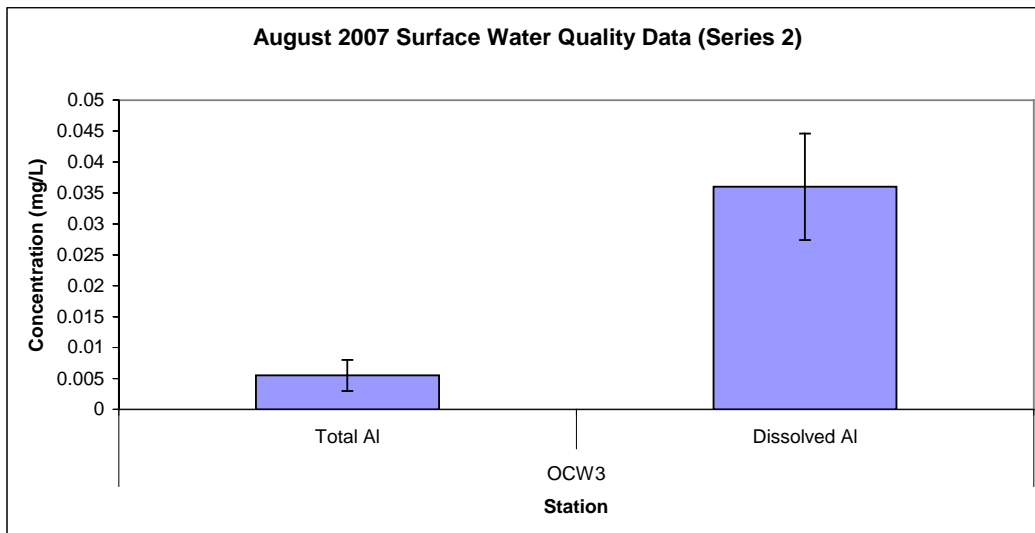
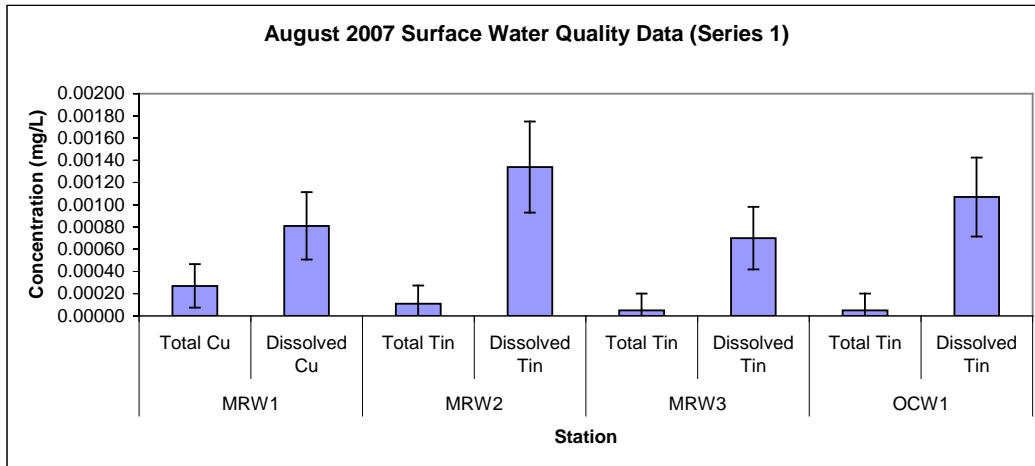
SAMPLE CONDITION UPON RECEIPT: ACCEPTABLE NON ACCEPTABLE
 FROZEN: _____ COLD: _____ AMBIENT: 18°C

DATE: 8/16/07
 TIME: 17:30
 DATE: _____
 TIME: _____

L7.5-326

WHITE - File Copy
 GREEN - Final Report
 PINK - Invoicing
 BLUE - Client Support
 YELLOW - Customer

**Aug. 2007 Minago Surface Water Quality Data
for which the measured Dissolved concentrations were higher than the Total concentrations**



APPENDIX L7.5-M

Certified Laboratory Reports for Surface Water Quality

September 2007 Results



Environmental Division

ANALYTICAL REPORT

VICTORY NICKEL INC.
ATTN: DR. DAVID MCHAINA
#1802 - 80 RICHMOND STREET
TORONTO ON M5H 1A4

Reported On: 30-OCT-07 12:18 PM
Revision: 3

Lab Work Order #: L555597

Date Received: 18-SEP-07

Project P.O. #:
Job Reference: VICTORY NICKEL MINAGO PROJECT
Legal Site Desc:
CofC Numbers:

Other Information:

Comments: For some of the submitted water samples, the measured concentration of specific dissolved parameters is greater than the corresponding total parameters concentration. The explanation for these findings is one or a combination of the following:

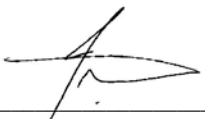
- laboratory method variability;
- field sampling method variability;
- bias introduced during general handling, storage, transportation and/or analysis of the sample;
- field sample grab bias - where separate grab samples are processed to produce total and dissolved samples;
- field sample split bias - where total and dissolved parameters samples are produced from the same grab sample.

For further clarification on any of the above information, please contact your ALS account manager.

The Nitrate and Nitrite data was also analyzed on the raw cut for the following samples:

Sample #	NO2 (mg/L)	NO3 (mg/L)
1	<0.001	<0.005
2	<0.001	<0.005
3	<0.001	<0.005
8	<0.001	<0.005
10	<0.001	0.012

Please note that the recommended holding time was expired for this analysis and therefore, NO3 and NO2 was analyzed from a bottle preserved with sulfuric acid at 100x dilution.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Bryan Mark

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L555597-1	L555597-2	L555597-3	L555597-4	L555597-5
		Description					
		Sampled Date	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07
		Sampled Time					
		Client ID	MRW2	WRW1	WRW2	HCLAOR	OCW3
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		205	130	173	not at Minago	163
	Conductivity (uS/cm)		386	251	323		301
	pH (pH)		8.23	8.25	8.32		8.11
	Total Dissolved Solids (mg/L)		240	173	192		193
	Total Suspended Solids (mg/L)		3.3	6.9	5.9		<1.0
	Turbidity (NTU)		3.38	7.82	5.73		0.64
Anions and Nutrients	Ammonia as N (mg/L)		0.024	0.023	0.021		0.023
	Acidity (as CaCO3) (mg/L)		2.4	1.7	<1.0		5.2
	Alkalinity, Total (as CaCO3) (mg/L)		212	134	172		169
	Bromide (Br) (mg/L)		<0.050	<0.050	<0.050		<0.050
	Chloride (Cl) (mg/L)		1.41	1.11	1.58		<0.50
	Fluoride (F) (mg/L)		0.086	0.063	0.089		0.062
	Sulfate (SO4) (mg/L)		1.36	0.89	2.42		<0.50
	Nitrate (as N) (mg/L)		<0.50	<0.50	<0.50		<0.50
	Nitrite (as N) (mg/L)		0.12	<0.10	0.13		<0.10
	Total Kjeldahl Nitrogen (mg/L)		0.459	0.573	0.447		0.408
	Total Nitrogen (mg/L)		<0.70	<0.70	<0.70		<0.70
Cyanides	Cyanide, Weak Acid Diss (mg/L)		<0.0050	<0.0050	<0.0050		<0.0050
Total Metals	Aluminum (Al)-Total (mg/L)		0.0824	0.198	0.126		0.0030
	Antimony (Sb)-Total (mg/L)		<0.000050	<0.000050	<0.000050		<0.000050
	Arsenic (As)-total (mg/L)		0.000521	0.000716	0.000572		0.000319
	Barium (Ba)-Total (mg/L)		0.0249	0.0138	0.0190		0.0156
	Beryllium (Be)-total (mg/L)		<0.00020	<0.00020	<0.00020		<0.00020
	Bismuth (Bi)-Total (mg/L)		<0.00050	<0.00050	<0.00050		<0.00050
	Boron (B)-total (mg/L)		0.0154	0.0064	0.0111		0.0055
	Cadmium (Cd)-Total (mg/L)		<0.000017	<0.000017	<0.000017		<0.000017
	Calcium (Ca)-Total (mg/L)		43.8	27.3	24.0		33.9
	Chromium (Cr)-Total (mg/L)		0.00013	0.00019	<0.00010		<0.00010
	Cobalt (Co)-Total (mg/L)		<0.00010	0.00014	<0.00010		<0.00010
	Copper (Cu)-Total (mg/L)		<0.00050	0.00051	<0.00050		<0.00050
	Iron (Fe)-Total (mg/L)		0.148	0.274	0.157		0.058
	Lead (Pb)-Total (mg/L)		0.000051	0.000120	0.000082		<0.000050
	Lithium (Li)-Total (mg/L)		<0.0050	<0.0050	<0.0050		<0.0050
	Magnesium (Mg)-Total (mg/L)		24.0	17.0	27.0		17.9
	Manganese (Mn)-Total (mg/L)		0.0131	0.0201	0.00779		0.00374
	Mercury (Hg)-Total (mg/L)		<0.00010	<0.00010	<0.00010		<0.00010
	Molybdenum (Mo)-Total (mg/L)		0.000129	0.000060	0.000102		0.000058
	Nickel (Ni)-Total (mg/L)		0.00044	0.00061	0.00041		0.00015
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30		<0.30

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L555597-6	L555597-7	L555597-8	L555597-9	L555597-10
		Description					
		Sampled Date	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07
		Sampled Time					
		Client ID	OCW2	ORAMLC	MLCAOR	UCAOR	ML-1
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)	195	Not at Minago	Not at Minago	Not at Minago	Not at Minago	Not at Minago
	Conductivity (uS/cm)	366					
	pH (pH)	8.17					
	Total Dissolved Solids (mg/L)	217					
	Total Suspended Solids (mg/L)	<1.0					
	Turbidity (NTU)	0.49					
Anions and Nutrients	Ammonia as N (mg/L)	0.025					
	Acidity (as CaCO3) (mg/L)	4.2					
	Alkalinity, Total (as CaCO3) (mg/L)	206					
	Bromide (Br) (mg/L)	<0.050					
	Chloride (Cl) (mg/L)	0.53					
	Fluoride (F) (mg/L)	0.077					
	Sulfate (SO4) (mg/L)	2.01					
	Nitrate (as N) (mg/L)	<0.50					
	Nitrite (as N) (mg/L)	<0.10					
	Total Kjeldahl Nitrogen (mg/L)	0.345					
	Total Nitrogen (mg/L)	<0.70					
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050					
Total Metals	Aluminum (Al)-Total (mg/L)	0.0028					
	Antimony (Sb)-Total (mg/L)	<0.000050					
	Arsenic (As)-total (mg/L)	0.000291					
	Barium (Ba)-Total (mg/L)	0.0229					
	Beryllium (Be)-total (mg/L)	<0.00020					
	Bismuth (Bi)-Total (mg/L)	<0.00050					
	Boron (B)-total (mg/L)	0.0066					
	Cadmium (Cd)-Total (mg/L)	<0.000017					
	Calcium (Ca)-Total (mg/L)	42.0					
	Chromium (Cr)-Total (mg/L)	<0.00010					
	Cobalt (Co)-Total (mg/L)	<0.00010					
	Copper (Cu)-Total (mg/L)	<0.00050					
	Iron (Fe)-Total (mg/L)	0.045					
	Lead (Pb)-Total (mg/L)	<0.000050					
	Lithium (Li)-Total (mg/L)	<0.0050					
	Magnesium (Mg)-Total (mg/L)	23.5					
	Manganese (Mn)-Total (mg/L)	0.00664					
	Mercury (Hg)-Total (mg/L)	<0.00010					
	Molybdenum (Mo)-Total (mg/L)	0.000099					
	Nickel (Ni)-Total (mg/L)	0.00023					
	Phosphorus (P)-Total (mg/L)	<0.30					

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L555597-11	L555597-12	L555597-13	L555597-14	L555597-15
		Description					
		Sampled Date	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07
		Sampled Time					
		Client ID	ORBMLC	MLUC2	ORBHCL	ORAHCL	FIELD BLANK
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)	Not at Minago	Not at Minago	Not at Minago	Not at Minago	Not at Minago	<0.50
	Conductivity (uS/cm)						
	pH (pH)						
	Total Dissolved Solids (mg/L)						
	Total Suspended Solids (mg/L)						
	Turbidity (NTU)						
Anions and Nutrients	Ammonia as N (mg/L)						
	Acidity (as CaCO3) (mg/L)						
	Alkalinity, Total (as CaCO3) (mg/L)						
	Bromide (Br) (mg/L)						
	Chloride (Cl) (mg/L)						
	Fluoride (F) (mg/L)						
	Sulfate (SO4) (mg/L)						
	Nitrate (as N) (mg/L)						
	Nitrite (as N) (mg/L)						
	Total Kjeldahl Nitrogen (mg/L)						
	Total Nitrogen (mg/L)						
Cyanides	Cyanide, Weak Acid Diss (mg/L)						
Total Metals	Aluminum (Al)-Total (mg/L)						<0.0010
	Antimony (Sb)-Total (mg/L)						<0.000050
	Arsenic (As)-total (mg/L)						<0.000030
	Barium (Ba)-Total (mg/L)						<0.000050
	Beryllium (Be)-total (mg/L)						<0.00020
	Bismuth (Bi)-Total (mg/L)						<0.00050
	Boron (B)-total (mg/L)						<0.0010
	Cadmium (Cd)-Total (mg/L)						<0.000017
	Calcium (Ca)-Total (mg/L)						<0.020
	Chromium (Cr)-Total (mg/L)						<0.00010
	Cobalt (Co)-Total (mg/L)						<0.00010
	Copper (Cu)-Total (mg/L)						<0.00050
	Iron (Fe)-Total (mg/L)						<0.010
	Lead (Pb)-Total (mg/L)						<0.000050
	Lithium (Li)-Total (mg/L)						<0.0050
	Magnesium (Mg)-Total (mg/L)						<0.010
	Manganese (Mn)-Total (mg/L)						<0.000050
	Mercury (Hg)-Total (mg/L)						<0.000020
	Molybdenum (Mo)-Total (mg/L)						<0.000050
	Nickel (Ni)-Total (mg/L)						<0.00010
	Phosphorus (P)-Total (mg/L)						<0.30

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L555597-16			
		Description				
		Sampled Date	14-SEP-07			
		Sampled Time				
		Client ID	TRAVEL BLANK			
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	<0.50				
	Conductivity (uS/cm)					
	pH (pH)					
	Total Dissolved Solids (mg/L)					
	Total Suspended Solids (mg/L)					
	Turbidity (NTU)					
Anions and Nutrients	Ammonia as N (mg/L)					
	Acidity (as CaCO3) (mg/L)					
	Alkalinity, Total (as CaCO3) (mg/L)					
	Bromide (Br) (mg/L)					
	Chloride (Cl) (mg/L)					
	Fluoride (F) (mg/L)					
	Sulfate (SO4) (mg/L)					
	Nitrate (as N) (mg/L)					
	Nitrite (as N) (mg/L)					
	Total Kjeldahl Nitrogen (mg/L)					
	Total Nitrogen (mg/L)					
Cyanides	Cyanide, Weak Acid Diss (mg/L)					
Total Metals	Aluminum (Al)-Total (mg/L)	<0.0010				
	Antimony (Sb)-Total (mg/L)	<0.000050				
	Arsenic (As)-total (mg/L)	<0.000030				
	Barium (Ba)-Total (mg/L)	<0.000050				
	Beryllium (Be)-total (mg/L)	<0.00020				
	Bismuth (Bi)-Total (mg/L)	<0.00050				
	Boron (B)-total (mg/L)	<0.0010				
	Cadmium (Cd)-Total (mg/L)	<0.000017				
	Calcium (Ca)-Total (mg/L)	<0.020				
	Chromium (Cr)-Total (mg/L)	<0.00010				
	Cobalt (Co)-Total (mg/L)	<0.00010				
	Copper (Cu)-Total (mg/L)	<0.00050				
	Iron (Fe)-Total (mg/L)	<0.010				
	Lead (Pb)-Total (mg/L)	<0.000050				
	Lithium (Li)-Total (mg/L)	<0.0050				
	Magnesium (Mg)-Total (mg/L)	<0.010				
	Manganese (Mn)-Total (mg/L)	<0.000050				
	Mercury (Hg)-Total (mg/L)	<0.000020				
	Molybdenum (Mo)-Total (mg/L)	<0.000050				
	Nickel (Ni)-Total (mg/L)	<0.00010				
	Phosphorus (P)-Total (mg/L)	<0.30				

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L555597-1	L555597-2	L555597-3	L555597-4	L555597-5
		Description					
		Sampled Date	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07
		Sampled Time					
		Client ID	MRW2	WRW1 = WRW2x	WRW2= WRW1x	HCLAOR	OCW3
Grouping	Analyte						
WATER							
Total Metals	Potassium (K)-Total (mg/L)	1.20	0.716	0.903	Not at Minago		0.412
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00010	<0.00010			<0.00010
	Silicon (Si)-Total (mg/L)	4.64	5.04	3.32			4.45
	Silver (Ag)-Total (mg/L)	<0.00010	<0.00010	<0.00010			<0.00010
	Sodium (Na)-Total (mg/L)	4.54	3.09	2.18			1.53
	Strontium (Sr)-Total (mg/L)	0.0680	0.0389	0.0290			0.0356
	Thallium (Tl)-Total (mg/L)	<0.000050	<0.000050	<0.000050			<0.000050
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010			<0.00010
	Titanium (Ti)-Total (mg/L)	<0.010	0.013	0.010			<0.010
	Uranium (U)-Total (mg/L)	0.000198	0.000161	0.000239			0.000028
	Vanadium (V)-Total (mg/L)	0.000443	0.000588	0.000633			0.000068
Zinc (Zn)-Total (mg/L)	0.0012	0.0014	<0.0010			<0.0010	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0037	0.0192	0.0063			0.0017
	Antimony (Sb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050			<0.000050
	Arsenic (As)-Dissolved (mg/L)	0.000582	0.000705	0.000591			0.000341
	Barium (Ba)-Dissolved (mg/L)	0.0242	0.0119	0.0185			0.0159
	Beryllium (Be)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020			<0.00020
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050			<0.00050
	Boron (B)-Dissolved (mg/L)	0.0155	0.0062	0.0112			0.0061
	Cadmium (Cd)-Dissolved (mg/L)	<0.000017	<0.000017	<0.000017			<0.000017
	Calcium (Ca)-Dissolved (mg/L)	43.0	25.6	24.0			34.8
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010			<0.00010
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010			<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00118	<0.00050	<0.00050			<0.00050
	Iron (Fe)-Dissolved (mg/L)	0.052	0.067	0.030			0.043
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050			<0.000050
	Lithium (Li)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050			<0.0050
	Magnesium (Mg)-Dissolved (mg/L)	23.8	16.0	27.4			18.4
	Manganese (Mn)-Dissolved (mg/L)	0.0102	0.0115	0.00399			0.00331
	Mercury (Hg)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010			<0.00010
	Molybdenum (Mo)-Dissolved (mg/L)	0.000119	0.000073	0.000100			0.000062
	Nickel (Ni)-Dissolved (mg/L)	0.00032	0.00031	0.00026			0.00018
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30			<0.30
	Potassium (K)-Dissolved (mg/L)	1.16	0.634	0.877			0.431
	Selenium (Se)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010			<0.00010
	Silicon (Si)-Dissolved (mg/L)	4.66	4.66	2.87			4.51
	Silver (Ag)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010			<0.00010
	Sodium (Na)-Dissolved (mg/L)	4.52	2.85	2.20			1.55
	Strontium (Sr)-Dissolved (mg/L)	0.0683	0.0370	0.0296			0.0363

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L555597-6	L555597-7	L555597-8	L555597-9	L555597-10
		Description					
		Sampled Date	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07
		Sampled Time					
		Client ID	OCW2	ORAMLC	MLCAOR	UCAOR	ML-1
Grouping	Analyte						
WATER							
Total Metals	Potassium (K)-Total (mg/L)	1.00	Not at Minago	Not at Minago	Not al Minago	Not at Minago	
	Selenium (Se)-Total (mg/L)	<0.00010					
	Silicon (Si)-Total (mg/L)	3.95					
	Silver (Ag)-Total (mg/L)	<0.00010					
	Sodium (Na)-Total (mg/L)	2.09					
	Strontium (Sr)-Total (mg/L)	0.0430					
	Thallium (Tl)-Total (mg/L)	<0.000050					
	Tin (Sn)-Total (mg/L)	<0.00010					
	Titanium (Ti)-Total (mg/L)	<0.010					
	Uranium (U)-Total (mg/L)	0.000213					
	Vanadium (V)-Total (mg/L)	0.000073					
	Zinc (Zn)-Total (mg/L)	<0.0010					
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0017					
	Antimony (Sb)-Dissolved (mg/L)	<0.000050					
	Arsenic (As)-Dissolved (mg/L)	0.000303					
	Barium (Ba)-Dissolved (mg/L)	0.0224					
	Beryllium (Be)-Dissolved (mg/L)	<0.00020					
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050					
	Boron (B)-Dissolved (mg/L)	0.0065					
	Cadmium (Cd)-Dissolved (mg/L)	<0.000017					
	Calcium (Ca)-Dissolved (mg/L)	40.8					
	Chromium (Cr)-Dissolved (mg/L)	<0.00010					
	Cobalt (Co)-Dissolved (mg/L)	<0.00010					
	Copper (Cu)-Dissolved (mg/L)	<0.00050					
	Iron (Fe)-Dissolved (mg/L)	0.031					
	Lead (Pb)-Dissolved (mg/L)	<0.000050					
	Lithium (Li)-Dissolved (mg/L)	<0.0050					
	Magnesium (Mg)-Dissolved (mg/L)	22.8					
	Manganese (Mn)-Dissolved (mg/L)	0.00424					
	Mercury (Hg)-Dissolved (mg/L)	<0.00010					
	Molybdenum (Mo)-Dissolved (mg/L)	0.000095					
	Nickel (Ni)-Dissolved (mg/L)	0.00024					
	Phosphorus (P)-Dissolved (mg/L)	<0.30					
	Potassium (K)-Dissolved (mg/L)	0.991					
	Selenium (Se)-Dissolved (mg/L)	<0.00010					
	Silicon (Si)-Dissolved (mg/L)	3.91					
	Silver (Ag)-Dissolved (mg/L)	<0.00010					
	Sodium (Na)-Dissolved (mg/L)	2.01					
	Strontium (Sr)-Dissolved (mg/L)	0.0420					

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L555597-11	L555597-12	L555597-13	L555597-14	L555597-15
		Description					
		Sampled Date	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07
		Sampled Time					
		Client ID	ORBMLC	MLUC2	ORBHCL	ORAHCL	FIELD BLANK
Grouping	Analyte						
WATER							
Total Metals	Potassium (K)-Total (mg/L)	Not at Minago	Not at Minago	Not at Minago	Not at Minago	<0.050	
	Selenium (Se)-Total (mg/L)					<0.00010	
	Silicon (Si)-Total (mg/L)					<0.050	
	Silver (Ag)-Total (mg/L)					<0.00010	
	Sodium (Na)-Total (mg/L)					<0.010	
	Strontium (Sr)-Total (mg/L)					<0.00010	
	Thallium (Tl)-Total (mg/L)					<0.000050	
	Tin (Sn)-Total (mg/L)					<0.00010	
	Titanium (Ti)-Total (mg/L)					<0.010	
	Uranium (U)-Total (mg/L)					<0.000010	
	Vanadium (V)-Total (mg/L)					<0.000050	
	Zinc (Zn)-Total (mg/L)					<0.0010	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)						
	Antimony (Sb)-Dissolved (mg/L)						
	Arsenic (As)-Dissolved (mg/L)						
	Barium (Ba)-Dissolved (mg/L)						
	Beryllium (Be)-Dissolved (mg/L)						
	Bismuth (Bi)-Dissolved (mg/L)						
	Boron (B)-Dissolved (mg/L)						
	Cadmium (Cd)-Dissolved (mg/L)						
	Calcium (Ca)-Dissolved (mg/L)						
	Chromium (Cr)-Dissolved (mg/L)						
	Cobalt (Co)-Dissolved (mg/L)						
	Copper (Cu)-Dissolved (mg/L)						
	Iron (Fe)-Dissolved (mg/L)						
	Lead (Pb)-Dissolved (mg/L)						
	Lithium (Li)-Dissolved (mg/L)						
	Magnesium (Mg)-Dissolved (mg/L)						
	Manganese (Mn)-Dissolved (mg/L)						
	Mercury (Hg)-Dissolved (mg/L)						
	Molybdenum (Mo)-Dissolved (mg/L)						
	Nickel (Ni)-Dissolved (mg/L)						
	Phosphorus (P)-Dissolved (mg/L)						
	Potassium (K)-Dissolved (mg/L)						
	Selenium (Se)-Dissolved (mg/L)						
	Silicon (Si)-Dissolved (mg/L)						
	Silver (Ag)-Dissolved (mg/L)						
	Sodium (Na)-Dissolved (mg/L)						
	Strontium (Sr)-Dissolved (mg/L)						

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L555597-16			
		Description				
		Sampled Date	14-SEP-07			
		Sampled Time				
		Client ID	TRAVEL BLANK			
Grouping	Analyte					
WATER						
Total Metals	Potassium (K)-Total (mg/L)	<0.050				
	Selenium (Se)-Total (mg/L)	<0.00010				
	Silicon (Si)-Total (mg/L)	<0.050				
	Silver (Ag)-Total (mg/L)	<0.00010				
	Sodium (Na)-Total (mg/L)	<0.010				
	Strontium (Sr)-Total (mg/L)	<0.00010				
	Thallium (Tl)-Total (mg/L)	<0.000050				
	Tin (Sn)-Total (mg/L)	0.00015				
	Titanium (Ti)-Total (mg/L)	<0.010				
	Uranium (U)-Total (mg/L)	<0.000010				
	Vanadium (V)-Total (mg/L)	<0.000050				
	Zinc (Zn)-Total (mg/L)	<0.0010				
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)					
	Antimony (Sb)-Dissolved (mg/L)					
	Arsenic (As)-Dissolved (mg/L)					
	Barium (Ba)-Dissolved (mg/L)					
	Beryllium (Be)-Dissolved (mg/L)					
	Bismuth (Bi)-Dissolved (mg/L)					
	Boron (B)-Dissolved (mg/L)					
	Cadmium (Cd)-Dissolved (mg/L)					
	Calcium (Ca)-Dissolved (mg/L)					
	Chromium (Cr)-Dissolved (mg/L)					
	Cobalt (Co)-Dissolved (mg/L)					
	Copper (Cu)-Dissolved (mg/L)					
	Iron (Fe)-Dissolved (mg/L)					
	Lead (Pb)-Dissolved (mg/L)					
	Lithium (Li)-Dissolved (mg/L)					
	Magnesium (Mg)-Dissolved (mg/L)					
	Manganese (Mn)-Dissolved (mg/L)					
	Mercury (Hg)-Dissolved (mg/L)					
	Molybdenum (Mo)-Dissolved (mg/L)					
	Nickel (Ni)-Dissolved (mg/L)					
	Phosphorus (P)-Dissolved (mg/L)					
	Potassium (K)-Dissolved (mg/L)					
	Selenium (Se)-Dissolved (mg/L)					
	Silicon (Si)-Dissolved (mg/L)					
	Silver (Ag)-Dissolved (mg/L)					
	Sodium (Na)-Dissolved (mg/L)					
	Strontium (Sr)-Dissolved (mg/L)					

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L555597-1	L555597-2	L555597-3	L555597-4	L555597-5
		Description					
		Sampled Date	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07
		Sampled Time					
		Client ID	MRW2	WRW1	WRW2	HCLAOR	OCW3
Grouping	Analyte						
WATER							
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	Not at Minago	<0.000050
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010		<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010		<0.010
	Uranium (U)-Dissolved (mg/L)	0.000176	0.000148	0.000232	0.000232		0.000026
	Vanadium (V)-Dissolved (mg/L)	0.000291	0.000270	0.000285	0.000285		0.000056
	Zinc (Zn)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010		<0.0010
Organic Parameters	Dissolved Organic Carbon (mg/L)		19.2				
	Total Organic Carbon (mg/L)		19.1				
Radiological Parameters	Radium-226 (Bq/L)	<0.005	<0.005	<0.005	<0.005		0.006

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L555597-6	L555597-7	L555597-8	L555597-9	L555597-10
		Description					
		Sampled Date	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07
		Sampled Time					
		Client ID	OCW2	ORAMLC	MLCAOR	UCAOR	ML-1
Grouping	Analyte						
WATER							
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)	<0.000050	Not at Minago	Not at Minago	Not at Minago	Not at Minago	
	Tin (Sn)-Dissolved (mg/L)	<0.00010					
	Titanium (Ti)-Dissolved (mg/L)	<0.010					
	Uranium (U)-Dissolved (mg/L)	0.000204					
	Vanadium (V)-Dissolved (mg/L)	0.000056					
	Zinc (Zn)-Dissolved (mg/L)	0.0012					
Organic Parameters	Dissolved Organic Carbon (mg/L)						
	Total Organic Carbon (mg/L)						
Radiological Parameters	Radium-226 (Bq/L)	<0.005					

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L555597-11	L555597-12	L555597-13	L555597-14	L555597-15
		Description					
		Sampled Date	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07	14-SEP-07
		Sampled Time					
		Client ID	ORBMLC	MLUC2	ORBHCL	ORAHCL	FIELD BLANK
Grouping	Analyte						
WATER							
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)	Not at Minago	Not at Minago	Not at Minago	Not at Minago		
	Tin (Sn)-Dissolved (mg/L)						
	Titanium (Ti)-Dissolved (mg/L)						
	Uranium (U)-Dissolved (mg/L)						
	Vanadium (V)-Dissolved (mg/L)						
	Zinc (Zn)-Dissolved (mg/L)						
Organic Parameters	Dissolved Organic Carbon (mg/L)						
	Total Organic Carbon (mg/L)						
Radiological Parameters	Radium-226 (Bq/L)						

ALS LABORATORY GROUP ANALYTICAL REPORT

<p style="text-align: right;">Sample ID Description Sampled Date Sampled Time Client ID</p>	<p>L555597-16 14-SEP-07 TRAVEL BLANK</p>				
<p>Grouping</p>	<p>Analyte</p>				
<p>WATER</p>					
<p>Dissolved Metals</p>	<p>Thallium (Tl)-Dissolved (mg/L) Tin (Sn)-Dissolved (mg/L) Titanium (Ti)-Dissolved (mg/L) Uranium (U)-Dissolved (mg/L) Vanadium (V)-Dissolved (mg/L) Zinc (Zn)-Dissolved (mg/L)</p>				
<p>Organic Parameters</p>	<p>Dissolved Organic Carbon (mg/L) Total Organic Carbon (mg/L)</p>				
<p>Radiological Parameters</p>	<p>Radium-226 (Bq/L)</p>				

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automated Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
CARBONS-DOC-VA	Water	Dissolved organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colormetric	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
FE-DIS-LOW-ICP-VA	Water	Dissolved Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
FE-TOT-LOW-ICP-VA	Water	Total Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
<p>Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.</p>			
HG-DIS-LOW-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS(Low)	EPA SW-846 3005A & EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
HG-TOT-LOW-CVAFS-VA	Water	Total Mercury in Water by CVAFS(Low)	EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-DIS-ULTRA-MS-VA	Water	Diss. Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
MET-TOT-ULTRA-MS-VA	Water	Total Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
<p>This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p>			
RADIO-RADIUM226-SR	Water	Radium 226	CANMET 1986
TDS-LOW-VA	Water	Low Level TDS (3.0mg/L) by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.</p>			
TKN-COL-VA	Water	Total Kjeldahl Nitrogen by Auto. Colour	APHA 4500-Norg (TKN)
<p>This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.</p>			
TN-CALC-VA	Water	TN by Calc (TKN + N+N)	BC MOE LABORATORY MANUAL (2005)
<p>Total Nitrogen is determined by calculation by suming TKN and the NO2 and NO3 results.</p>			
TSS-LOW-VA	Water	Total Suspended Solids by Grav. (1 mg/L)	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.</p>			
TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
<p>This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.</p>			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. *The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
SR	Saskatchewan Research Council - Saskatoon, Saskatchewan, Can	VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

SRC ANALYTICAL**L7.5-346** Oct 04, 2007

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Saskatoon, Saskatchewan, Canada

S7N 4N1

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ALS

Aurora Laboratory Services Ltd.

1988 Triumph Street

Vancouver, British Columbia V5L 1K5

Attn: Bryan Mark

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Sample # **32742**

Date Sampled:

Sample Matrix: **WATER**Description: **L555597-1**Client PO #: **LW12502**Date Received: **Sep 20, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Oct 03, 2007

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-347**

Oct 04, 2007

Sample # **32743**
Date Sampled:
Sample Matrix: **WATER**
Description: **L555597-2**

Client PO #: **LW12502**
Date Received: **Sep 20, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Oct 03, 2007

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-348** Oct 04, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **32744**
Date Sampled:
Sample Matrix: **WATER**
Description: **L555597-3**

Client PO #: **LW12502**
Date Received: **Sep 20, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Oct 03, 2007

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-349** Oct 04, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **32745**
Date Sampled:
Sample Matrix: **WATER**
Description: **L555597-4**

Client PO #: **LW12502**
Date Received: **Sep 20, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	Site not at Minago	0.005	Oct 03, 2007

SRC ANALYTICAL**L7.5-350**

Oct 04, 2007

Sample # **32746**
Date Sampled:
Sample Matrix: **WATER**
Description: **L555597-5**

Client PO #: **LW12502**
Date Received: **Sep 20, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.006	0.005	Oct 03, 2007

Sample # **32747**
Date Sampled:
Sample Matrix: **WATER**
Description: **L555597-6**

Client PO #: **LW12502**
Date Received: **Sep 20, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Oct 03, 2007

"<": not detected at level stated above.

Sample # **32748**
Date Sampled:
Sample Matrix: **WATER**
Description: **L555597-7**

Client PO #: **LW12502**
Date Received: **Sep 20, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	Site not at Minago	0.005	Oct 03, 2007

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-353** Oct 04, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **32749**
Date Sampled:
Sample Matrix: **WATER**
Description: **L555597-8**

Client PO #: **LW12502**
Date Received: **Sep 20, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	Site not at Minago	0.005	Oct 04, 2007

"<": not detected at level stated above.

Sample # **32750**
Date Sampled:
Sample Matrix: **WATER**
Description: **L555597-9**

Client PO #: **LW12502**
Date Received: **Sep 20, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	Site not at Minago	0.005	Oct 04, 2007

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-355** Oct 04, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **32751**
Date Sampled:
Sample Matrix: **WATER**
Description: **L555597-10**

Client PO #: **LW12502**
Date Received: **Sep 20, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	Site not at Minago	0.005	Oct 04, 2007

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-356** Oct 04, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **32752**
Date Sampled:
Sample Matrix: **WATER**
Description: **L555597-11**

Client PO #: **LW12502**
Date Received: **Sep 20, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	Site not at Minago	0.005	Oct 04, 2007

"<": not detected at level stated above.

Sample # **32753**
Date Sampled:
Sample Matrix: **WATER**
Description: **L555597-12**

Client PO #: **LW12502**
Date Received: **Sep 20, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	Site not at Minago	0.005	Oct 04, 2007

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-358** Oct 04, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **32754**
Date Sampled:
Sample Matrix: **WATER**
Description: **L555597-13**

Client PO #: **LW12502**
Date Received: **Sep 20, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	Site not at Minago	0.005	Oct 04, 2007

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-359** Oct 04, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **32755**
Date Sampled:
Sample Matrix: **WATER**
Description: **L555597-14**

Client PO #: **LW12502**
Date Received: **Sep 20, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	Site not at Minago	0.005	Oct 04, 2007

"<": not detected at level stated above.

Report to: Dr. David McChaina		Report Format / Distribution		Service Requested:	
Company: Victory Nickel Inc.				Regular Service (Default)	
Contact: #1802-80 Richmond Street				Rush Service (2-3 Days)	
Address: Toronto, Ont. M5H 1A4		Email 1: dmchaina@hotmail.com		Priority Service (1 Day or ASAP)	
Phone: (519) 241-9655		Fax: (416) 626-0890		Emergency Service (<1 Day / Weekend) - Contact ALS	
Invoice To:		Indicate Bottles: Filtered / Preserved (F/P) → →		Analysis Request	
Company: same as above		Client / Project Information:		P P P P P P P P	
Contact:		Job #: Minago Project		1 - General Parameters & NO3 & NO2	
Address:		PO/A/E:		2 - Radium-226	
Sample		Legal Site Description: Minago Project		3 - Weak Acid Dissociable Cyanide	
Phone:		Quote #: ALS-EQ07-480		4 - Diss. Low Level Metals	
Lab Work Order #		ALS		5 - Total Low Level Metals	
(lab use only)		Contact: Bryan Mark		6 - Dissolved Organic Carbon	
		Sampler: Karin Renken/Ken Bud		7 - Total Organic Carbon	
		(Initials):		8 - TKN & NH3	
		Date		and at 1:100 Dilution NO3 & NO2	
		Time		Highly Contaminated?	
		Sample Type		Number of Containers	
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Minago Project

Chain of Custody / Analytical Request Form
 Canada Toll Free: 1 800 668 9878
 www.alsglobal.com

COC #

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Report to: Dr. David Mchaina Company: Victory Nickel Inc. Contact: #1802-80 Richmond Street Address: Toronto, Ont. M5H 1A4 Phone: (519) 241-9655 Fax: (416) 626-0890 Invoice To: Company: same as above Contact: Address: Sample Phone:		Report Format / Distribution Email 1: dmchaina@hotmail.com Email 2: Indicate Bottles: Filtered / Preserved (FFP) ----		Service Requested: <input type="checkbox"/> Regular Service (Default) <input type="checkbox"/> Rush Service (2-3 Days) <input type="checkbox"/> Priority Service (1 Day or ASAP) <input type="checkbox"/> Emergency Service (<1 Day / Wkend) - Contact ALS	
Client / Project Information: Job #: Minago Project PO/A/E: Legal Site Description: Minago Project Quote #: ALS-EQ07-480 ALS Contact: Bryan Mark Sampler (Initials): Karin Renken/Ken Bud		Analysis Request P P P P P 1 - General Parameters 2 - Radium-226 3 - Weak Acid Dissociable Cyanide 4 - Diss. Low Level Metals 5 - Total Low Level Metals 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2		Hazardous? Highly Contaminated? Number of Containers	
Lab Work Order # (lab use only)		Date dd-mm-yy Sept. 15, 2007 Sept. 15, 2007 Sept. 15, 2007 Sept. 15, 2007 Sept. 15, 2007 Sept. 15, 2007 Sept. 15, 2007		Sample Type (Select from drop-down list) water water water water water water water	
Sample Identification (This description will appear on the report)		Time hh:mm		Special Instructions / Hazardous Details	
1 OCW3 1 - General Parameters 1 OCW3 2 - Radium-226 1 OCW3 3 - Weak Acid Dissociable Cyanide 1 OCW3 4 - Diss. Low Level Metals 1 OCW3 5 - Total Low Level Metals 1 OCW3 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2		X X X X X X X		X X X X X X X	
Guidelines / Regulations		Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.		Samples Received in Good Condition <input checked="" type="checkbox"/> (if no provided details)	
Relinquished By:		Received By:		Temperature: 11	
Relinquished By:		Received By:		Date & Time: 10/16 Date & Time:	



Environmental Division

ANALYTICAL REPORT

VICTORY NICKEL INC.
ATTN: DR. DAVID MCHAINA
#1802 - 80 RICHMOND STREET
TORONTO ON M5H 1A4

Reported On: 01-NOV-07 12:51 PM
Revision: 4

Lab Work Order #: L557035

Date Received: 20-SEP-07


Project P.O. #:
Job Reference: VICTORY NICKEL MINAGO PROJECT
Legal Site Desc: MINAGO PROJECT
CofC Numbers:

Other Information:

Comments: For some of the submitted water samples, the measured concentration of specific dissolved parameters is greater than the corresponding total parameters concentration. The explanation for these findings is one or a combination of the following:

- laboratory method variability;
- field sampling method variability;
- bias introduced during general handling, storage, transportation and/or analysis of the sample;
- field sample grab bias - where separate grab samples are processed to produce total and dissolved samples;
- field sample split bias - where total and dissolved parameters samples are produced from the same grab sample.

For further clarification on any of the above information, please contact your ALS account manager.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Bryan Mark

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L557035-1	L557035-2	L557035-3
		Description			
		Sampled Date	12-SEP-07	12-SEP-07	12-SEP-07
		Sampled Time			
		Client ID	MRW3 1-8	TRAVEL BLANK	FIELD BLANK
Grouping	Analyte				
WATER					
Physical Tests	Hardness (as CaCO ₃) (mg/L)	177	<0.50	<0.50	
	Conductivity (uS/cm)	304			
	pH (pH)	7.78			
	Total Dissolved Solids (mg/L)	196			
	Total Suspended Solids (mg/L)	4.7			
	Turbidity (NTU)	1.05			
Anions and Nutrients	Ammonia as N (mg/L)	0.155			
	Acidity (as CaCO ₃) (mg/L)	5.5			
	Alkalinity, Total (as CaCO ₃) (mg/L)	178			
	Bromide (Br) (mg/L)	<0.05			
	Chloride (Cl) (mg/L)	1.37			
	Fluoride (F) (mg/L)	0.07			
	Sulfate (SO ₄) (mg/L)	1.14			
	Nitrate (as N) (mg/L)	<0.005			
	Nitrite (as N) (mg/L)	<0.001			
	Total Kjeldahl Nitrogen (mg/L)	0.980			
	Total Nitrogen (mg/L)	1.20			
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050			
Total Metals	Aluminum (Al)-Total (mg/L)	0.107	<0.0010	<0.0010	
	Antimony (Sb)-Total (mg/L)	<0.000050	<0.000050	<0.000050	
	Arsenic (As)-total (mg/L)	0.000853	<0.000030	<0.000030	
	Barium (Ba)-Total (mg/L)	0.0116	<0.000050	<0.000050	
	Beryllium (Be)-total (mg/L)	<0.00020	<0.00020	<0.00020	
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	
	Boron (B)-total (mg/L)	0.0159	<0.0010	<0.0010	
	Cadmium (Cd)-Total (mg/L)	<0.000017	<0.000017	<0.000017	
	Calcium (Ca)-Total (mg/L)	37.9	0.050	<0.020	
	Chromium (Cr)-Total (mg/L)	0.00028	<0.00010	<0.00010	
	Cobalt (Co)-Total (mg/L)	0.00013	<0.00010	<0.00010	
	Copper (Cu)-Total (mg/L)	0.00053	<0.00050	<0.00050	
	Iron (Fe)-Total (mg/L)	0.166	<0.010	<0.010	
	Lead (Pb)-Total (mg/L)	0.000080	<0.000050	<0.000050	
	Lithium (Li)-Total (mg/L)	<0.0050	<0.0050	<0.0050	
	Magnesium (Mg)-Total (mg/L)	20.1	<0.010	<0.010	
	Manganese (Mn)-Total (mg/L)	0.0298	<0.000050	<0.000050	
	Mercury (Hg)-Total (mg/L)	<0.000020	<0.000020	<0.000020	
	Molybdenum (Mo)-Total (mg/L)	0.000073	<0.000050	<0.000050	
	Nickel (Ni)-Total (mg/L)	0.00080	<0.00010	<0.00010	
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L557035-1	L557035-2	L557035-3
		Description			
		Sampled Date	12-SEP-07	12-SEP-07	12-SEP-07
		Sampled Time			
		Client ID	MRW3 1-8	TRAVEL BLANK	FIELD BLANK
Grouping	Analyte				
WATER					
Total Metals	Potassium (K)-Total (mg/L)	0.918	<0.050	<0.050	
	Selenium (Se)-Total (mg/L)	0.00015	<0.00010	<0.00010	
	Silicon (Si)-Total (mg/L)	3.73	<0.050	<0.050	
	Silver (Ag)-Total (mg/L)	<0.00010	<0.00010	<0.00010	
	Sodium (Na)-Total (mg/L)	5.19	<0.010	<0.010	
	Strontium (Sr)-Total (mg/L)	0.0807	<0.00010	<0.00010	
	Thallium (Tl)-Total (mg/L)	<0.000050	<0.000050	<0.000050	
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	<0.010	
	Uranium (U)-Total (mg/L)	0.000140	<0.000010	<0.000010	
	Vanadium (V)-Total (mg/L)	0.000520	<0.000050	0.000135	
	Zinc (Zn)-Total (mg/L)	<0.0010	<0.0010	<0.0010	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0043			
	Antimony (Sb)-Dissolved (mg/L)	<0.000050			
	Arsenic (As)-Dissolved (mg/L)	0.000919			
	Barium (Ba)-Dissolved (mg/L)	0.0108			
	Beryllium (Be)-Dissolved (mg/L)	<0.00020			
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050			
	Boron (B)-Dissolved (mg/L)	0.0166			
	Cadmium (Cd)-Dissolved (mg/L)	<0.000017			
	Calcium (Ca)-Dissolved (mg/L)	37.3			
	Chromium (Cr)-Dissolved (mg/L)	0.00094			
	Cobalt (Co)-Dissolved (mg/L)	<0.00010			
	Copper (Cu)-Dissolved (mg/L)	<0.00050			
	Iron (Fe)-Dissolved (mg/L)	0.035			
	Lead (Pb)-Dissolved (mg/L)	<0.000050			
	Lithium (Li)-Dissolved (mg/L)	<0.0050			
	Magnesium (Mg)-Dissolved (mg/L)	20.3			
	Manganese (Mn)-Dissolved (mg/L)	0.0154			
	Mercury (Hg)-Dissolved (mg/L)	<0.000020			
	Molybdenum (Mo)-Dissolved (mg/L)	0.000082			
	Nickel (Ni)-Dissolved (mg/L)	0.00070			
	Phosphorus (P)-Dissolved (mg/L)	<0.30			
	Potassium (K)-Dissolved (mg/L)	0.897			
	Selenium (Se)-Dissolved (mg/L)	0.00015			
	Silicon (Si)-Dissolved (mg/L)	3.64			
	Silver (Ag)-Dissolved (mg/L)	<0.00010			
	Sodium (Na)-Dissolved (mg/L)	5.25			
	Strontium (Sr)-Dissolved (mg/L)	0.0813			

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID				
		Description	L557035-1	L557035-2	L557035-3	
		Sampled Date	12-SEP-07	12-SEP-07	12-SEP-07	
		Sampled Time				
		Client ID	MRW3 1-8	TRAVEL BLANK	FIELD BLANK	
Grouping	Analyte					
WATER						
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)	<0.000050				
	Tin (Sn)-Dissolved (mg/L)	<0.00010				
	Titanium (Ti)-Dissolved (mg/L)	<0.010				
	Uranium (U)-Dissolved (mg/L)	0.000139				
	Vanadium (V)-Dissolved (mg/L)	0.000277				
	Zinc (Zn)-Dissolved (mg/L)	<0.0010				
Organic Parameters	Dissolved Organic Carbon (mg/L)	19.1				
	Total Organic Carbon (mg/L)	17.2				
Radiological Parameters	Radium-226 (Bq/L)	<0.005				

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automated Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
CARBONS-DOC-VA	Water	Dissolved organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colormetric	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
FE-DIS-LOW-ICP-VA	Water	Dissolved Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
FE-TOT-LOW-ICP-VA	Water	Total Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
<p>Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.</p>			
HG-DIS-LOW-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS(Low)	EPA SW-846 3005A & EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
HG-TOT-LOW-CVAFS-VA	Water	Total Mercury in Water by CVAFS(Low)	EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-DIS-ULTRA-MS-VA	Water	Diss. Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
MET-TOT-ULTRA-MS-VA	Water	Total Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
<p>This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p>			
RADIO-RADIUM226-SR	Water	Radium 226	CANMET 1986
TDS-LOW-VA	Water	Low Level TDS (3.0mg/L) by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.</p>			
TKN-COL-VA	Water	Total Kjeldahl Nitrogen by Auto. Colour	APHA 4500-Norg (TKN)
<p>This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.</p>			
TN-CALC-VA	Water	TN by Calc (TKN + N+N)	BC MOE LABORATORY MANUAL (2005)
<p>Total Nitrogen is determined by calculation by suming TKN and the NO2 and NO3 results.</p>			
TSS-LOW-VA	Water	Total Suspended Solids by Grav. (1 mg/L)	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.</p>			
TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
<p>This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.</p>			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. *The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
SR	Saskatchewan Research Council - Saskatoon, Saskatchewan, Can	VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

SRC ANALYTICAL**L7.5-373** Oct 09, 2007

422 Downey Road

Saskatoon, Saskatchewan, Canada

S7N 4N1

(306) 933-6932 or 1-800-240-8808

Fax: (306) 933-7922

ALS

Aurora Laboratory Services Ltd.

1988 Triumph Street

Vancouver, British Columbia V5L 1K5

Page 1 of 1

Sample # **33101**
Date Sampled: **Sep 12, 2007**
Sample Matrix: **WATER**
Description: **L557035-1 MRW3**

Client PO #: **LW12572**
Date Received: **Sep 24, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Oct 09, 2007

"<": not detected at level stated above.

Chain of Custody / Analytical Request Form
 Canada Toll Free: 1 800 668 9878
 www.alsglobal.com

COC # _____
 Page 1 of 1

Report to: Dr. David McHainia		Report Format / Distribution		Service Requested:	
Company: Victory Nickel Inc.		Email 1: dmchainia@hotmail.com		Regular Service (Default)	
Contact: #1802-80 Richmond Street		Email 2:		Rush Service (2-3 Days)	
Address: Toronto, Ont. M5H 1A4		Client / Project Information:		Priority Service (1 Day or ASAP)	
Phone: (519) 241-9655 Fax: (416) 626-0890		Job #: Minago Project		Emergency Service (<1 Day / Weekend) - Contact ALS	
Invoice To: same as above		PO/A/E:		Analysis Request	
Company: same as above		Legal Site Description: Minago Project		P P P P	
Contact: same as above		Quote #: ALS-EQ07-480		P P P P	
Address: same as above		ALS Contact: Bryan Mark		P P P P	
Sample: same as above		Date: dd-mmm-yy		hh:mm	
Phone: same as above		Sampler (initials):		Karin Renken/Ken Bud	
Fax: same as above		Sample Type		(Selected from drop-down list)	
Lab Work Order #		Date		Time	
(lab use only) LS57035		Date		Time	
Sample Identification		Date		Time	
(This description will appear on the report)		Date		Time	
#		Date		Time	
1 MRW3 1 - General Parameters		Sept. 12, 2007		water	
1 MRW3 2 - Radium-226		Sept. 12, 2007		water	
1 MRW3 3 - Weak Acid Dissociable Cyanide		Sept. 12, 2007		water	
1 MRW3 4 - Diss. Low Level Metals		Sept. 12, 2007		water	
1 MRW3 5 - Total Low Level Metals		Sept. 12, 2007		water	
1 MRW3 6 - Dissolved Organic Carbon		Sept. 12, 2007		water	
1 MRW3 7 - Total Organic Carbon		Sept. 12, 2007		water	
1 MRW3 8 - TKN & NH3		Sept. 12, 2007		water	
and at 1:100 Dilution NO3 & NO2					
Guidelines / Regulations		Special Instructions / Hazardous Details			
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.					
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.					
Reinquired By:	Date & Time:	Received By:	Date & Time:	Temperature:	Sample Condition (lab use only)
Reinquired By:	Date & Time:	Received By:	Date & Time:	Temperature:	Sample Condition (lab use only)

Karin Renken
 Sept. 14, 2007

L7.5-374



Environmental Division

ANALYTICAL REPORT

VICTORY NICKEL INC.
ATTN: DR. DAVID MCHAINA
#1802 - 80 RICHMOND STREET
TORONTO ON M5H 1A4

Reported On: 15-DEC-07 12:20 AM
Revision: 3

Lab Work Order #: L557287

Date Received: 20-SEP-07


Project P.O. #:
Job Reference: VICTORY NICKEL MINAGO PROJECT
Legal Site Desc: MINAGO PROJECT
CofC Numbers:

Other Information:

Comments: For some of the submitted water samples, the measured concentration of specific dissolved parameters is greater than the corresponding total parameters concentration. The explanation for these findings is one or a combination of the following:

- laboratory method variability;
- field sampling method variability;
- bias introduced during general handling, storage, transportation and/or analysis of the sample;
- field sample grab bias - where separate grab samples are processed to produce total and dissolved samples;
- field sample split bias - where total and dissolved parameters samples are produced from the same grab sample.

For further clarification on any of the above information, please contact your ALS account manager.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Bryan Mark

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L557287-1			
		Description				
		Sampled Date	11-SEP-07			
		Sampled Time				
		Client ID	MRW1-1-8			
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)		172			
	Conductivity (uS/cm)		314			
	pH (pH)		7.91			
	Total Dissolved Solids (mg/L)		211			
	Total Suspended Solids (mg/L)		1.5			
	Turbidity (NTU)		1.14			
Anions and Nutrients	Ammonia as N (mg/L)		0.080			
	Acidity (as CaCO3) (mg/L)		4.7			
	Alkalinity, Total (as CaCO3) (mg/L)		182			
	Bromide (Br) (mg/L)		<0.05			
	Chloride (Cl) (mg/L)		0.93			
	Fluoride (F) (mg/L)		0.06			
	Sulfate (SO4) (mg/L)		0.55			
	Nitrate (as N) (mg/L)		<0.005			
	Nitrite (as N) (mg/L)		0.044			
	Total Kjeldahl Nitrogen (mg/L)		0.803			
	Total Nitrogen (mg/L)		1.05			
Cyanides	Cyanide, Weak Acid Diss (mg/L)		<0.0050			
Total Metals	Aluminum (Al)-Total (mg/L)		0.0286			
	Antimony (Sb)-Total (mg/L)		<0.000050			
	Arsenic (As)-total (mg/L)		0.00105			
	Barium (Ba)-Total (mg/L)		0.00949			
	Beryllium (Be)-total (mg/L)		<0.00020			
	Bismuth (Bi)-Total (mg/L)		<0.00050			
	Boron (B)-total (mg/L)		0.0113			
	Cadmium (Cd)-Total (mg/L)		<0.000017			
	Calcium (Ca)-Total (mg/L)		37.5			
	Chromium (Cr)-Total (mg/L)		0.00051			
	Cobalt (Co)-Total (mg/L)		0.00014			
	Copper (Cu)-Total (mg/L)		<0.00050			
	Iron (Fe)-Total (mg/L)		0.186			
	Lead (Pb)-Total (mg/L)		<0.000050			
	Lithium (Li)-Total (mg/L)		<0.0050			
	Magnesium (Mg)-Total (mg/L)		20.5			
	Manganese (Mn)-Total (mg/L)		0.144			
	Mercury (Hg)-Total (mg/L)		<0.000020			
	Molybdenum (Mo)-Total (mg/L)		0.000115			
	Nickel (Ni)-Total (mg/L)		0.00090			
	Phosphorus (P)-Total (mg/L)		<0.30			

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L557287-1			
		Description				
		Sampled Date	11-SEP-07			
		Sampled Time				
		Client ID	MRW1-1-8			
Grouping	Analyte					
WATER						
Total Metals	Potassium (K)-Total (mg/L)		0.764			
	Selenium (Se)-Total (mg/L)		0.00032			
	Silicon (Si)-Total (mg/L)		5.64			
	Silver (Ag)-Total (mg/L)		<0.00010			
	Sodium (Na)-Total (mg/L)		4.57			
	Strontium (Sr)-Total (mg/L)		0.0691			
	Thallium (Tl)-Total (mg/L)		<0.000050			
	Tin (Sn)-Total (mg/L)		<0.00010			
	Titanium (Ti)-Total (mg/L)		<0.010			
	Uranium (U)-Total (mg/L)		0.000100			
	Vanadium (V)-Total (mg/L)		0.000273			
	Zinc (Zn)-Total (mg/L)		<0.0010			
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		0.0064			
	Antimony (Sb)-Dissolved (mg/L)		<0.000050			
	Arsenic (As)-Dissolved (mg/L)		0.00102			
	Barium (Ba)-Dissolved (mg/L)		0.00797			
	Beryllium (Be)-Dissolved (mg/L)		<0.00020			
	Bismuth (Bi)-Dissolved (mg/L)		<0.00050			
	Boron (B)-Dissolved (mg/L)		0.0094			
	Cadmium (Cd)-Dissolved (mg/L)		<0.000017			
	Calcium (Ca)-Dissolved (mg/L)		36.5			
	Chromium (Cr)-Dissolved (mg/L)		0.00061			
	Cobalt (Co)-Dissolved (mg/L)		0.00016			
	Copper (Cu)-Dissolved (mg/L)		<0.00050			
	Iron (Fe)-Dissolved (mg/L)		0.143			
	Lead (Pb)-Dissolved (mg/L)		<0.000050			
	Lithium (Li)-Dissolved (mg/L)		<0.0050			
	Magnesium (Mg)-Dissolved (mg/L)		19.6			
	Manganese (Mn)-Dissolved (mg/L)		0.164			
	Mercury (Hg)-Dissolved (mg/L)		<0.000020			
	Molybdenum (Mo)-Dissolved (mg/L)		0.000230			
	Nickel (Ni)-Dissolved (mg/L)		0.00106			
	Phosphorus (P)-Dissolved (mg/L)		<0.30			
	Potassium (K)-Dissolved (mg/L)		1.01			
	Selenium (Se)-Dissolved (mg/L)		0.00025			
	Silicon (Si)-Dissolved (mg/L)		6.12			
	Silver (Ag)-Dissolved (mg/L)		<0.00010			
	Sodium (Na)-Dissolved (mg/L)		4.11			
	Strontium (Sr)-Dissolved (mg/L)		0.0652			

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID	L557287-1			
	Description				
	Sampled Date	11-SEP-07			
	Sampled Time				
	Client ID	MRW1-1-8			
Grouping	Analyte				
WATER					
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)	<0.000050			
	Tin (Sn)-Dissolved (mg/L)	<0.00010			
	Titanium (Ti)-Dissolved (mg/L)	<0.010			
	Uranium (U)-Dissolved (mg/L)	0.000118			
	Vanadium (V)-Dissolved (mg/L)	0.000268			
	Zinc (Zn)-Dissolved (mg/L)	<0.0010			
Organic Parameters	Dissolved Organic Carbon (mg/L)	18.4			
	Total Organic Carbon (mg/L)	19.3			
Radiological Parameters	Radium-226 (Bq/L)	<0.005			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
CARBONS-DOC-VA	Water	Dissolved organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colormetric	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
FE-DIS-LOW-ICP-VA	Water	Dissolved Fe in Water by ICPOES	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
FE-TOT-LOW-ICP-VA	Water	Total Fe in Water by ICPOES	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.			
HG-DIS-LOW-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS(Low)	EPA SW-846 3005A & EPA 245.7
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
HG-TOT-LOW-CVAFS-VA	Water	Total Mercury in Water by CVAFS(Low)	EPA 245.7
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).			
MET-DIS-ULTRA-MS-VA	Water	Diss. Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

MET-TOT-ULTRA-MS-VA	Water	Total Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
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This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.

PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
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This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

RADIO-RADIUM226-SR	Water	Radium 226	CANMET 1986
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TDS-LOW-VA	Water	Low Level TDS (3.0mg/L) by Gravimetric	APHA 2540 Gravimetric
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This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.

TKN-COL-VA	Water	Total Kjeldahl Nitrogen by Auto. Colour	APHA 4500-Norg (TKN)
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This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.

TN-CALC-VA	Water	TN by Calc (TKN + N+N)	BC MOE LABORATORY MANUAL (2005)
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Total Nitrogen is determined by calculation by suming TKN and the NO2 and NO3 results.

TSS-LOW-VA	Water	Total Suspended Solids by Grav. (1 mg/L)	APHA 2540 Gravimetric
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This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.

TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
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This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
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Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
SR		Saskatchewan Research Council - Saskatoon, Saskatchewan, Can	VA ALS LABORATORY GROUP - VANCOUVER, BC, CANADA

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

SRC ANALYTICAL**L7.5-383**

Oct 11, 2007

422 Downey Road

Saskatoon, Saskatchewan, Canada

S7N 4N1

(306) 933-6932 or 1-800-240-8808

Fax: (306) 933-7922

ALS

Aurora Laboratory Services Ltd.

1988 Triumph Street

Vancouver, British Columbia V5L 1K5

Attn: ALS ED REPORTING

Page 1 of 1

Sample # **33268**Client PO #: **LW12585**

Date Sampled:

Date Received: **Sep 25, 2007**Sample Matrix: **WATER**Description: **L557287-1 MRW1**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Oct 10, 2007

"<": not detected at level stated above.

Chain of Custody / Analytical Request Form
 Canada Toll Free: 1 800 668 9878
 www.alsglobal.com

COC #

Page 1 of 1

Report to: Dr. David Mchaina Company: Victory Nickel Inc. Contact: #1802-80 Richmond Street Address: Toronto, Ont. M5H 1A4 Phone: (519) 241-9655 Fax: (416) 626-0890 Invoiced To:		Report Format / Distribution Regular Service (Default) Rush Service (2-3 Days) Priority Service (1 Day or ASAP) Emergency Service (<1 Day / Wkend) - Contact ALS	
Email 1: dmchaina@hotmail.com Email 2:		Analysis Request Indicate Bottles: Filtered / Preserved (F/P) →	
Client / Project Information: Job #: Minago Project PO/AFE: Legal Site Description: Minago Project Quote #: ALS-EQ07-480		P P P P 1 - General Parameters 2 - Radium-226 3 - Weak Acid Dissociable Cyanide 4 - Diss. Low Level Metals 5 - Total Low Level Metals 6 - Dissolved Organic Carbon 7 - Total Organic Carbon 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2 Hazardous? Highly Contaminated?	
ALS Contact: Bryan Mark (Initials): Sampler: Kann Renken/Ken Bud Date: dd-mmm-yy Time: hh:mm Sample Type: (Select from drop-down list)		Special Instructions / Hazardous Details	
Lab Work Order # (lab use only) 1557287 Sample Identification (This description will appear on the report)		Date & Time: 11.09.2007 9:13 Temperature: 14 Samples Received in Good Condition: Y/N (if no provided details)	
Relinquished By:		Relinquished By:	
Date & Time:		Date & Time:	
Guidelines / Regulations			
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.			

Kai Reed
 Sept. 14, 2007



Environmental Division

ANALYTICAL REPORT

VICTORY NICKEL INC.

ATTN: DR. DAVID MCHAINA

#1802 - 80 RICHMOND STREET

TORONTO ON M5H 1A4

Reported On: 26-OCT-07 04:34 PM

Revision: 2

Lab Work Order #: L557029

Date Received: 20-SEP-07

Project P.O. #:

Job Reference: VICTORY NICKEL MINAGO PROJECT

Legal Site Desc: MINAGO PROJECT

CofC Numbers:

Other Information:

Comments:

Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Bryan Mark

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS Canada Ltd.
Part of the **ALS Laboratory Group**

1988 Triumph Street, Vancouver, BC V5L 1K5
Phone: +1 604 253 4188 Fax: +1 604 253 6700 www.alsglobal.com
A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Grouping	Analyte	Sample ID Description Sampled Date Sampled Time Client ID				
		L557029-1 12-SEP-07 WILLIAM LK 1-8 (Actually RUSSELL LK 1-8)				
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	198				
	Conductivity (uS/cm)	326				
	pH (pH)	8.56				
	Total Dissolved Solids (mg/L)	173				
	Total Suspended Solids (mg/L)	14.2				
	Turbidity (NTU)	4.48				
Anions and Nutrients	Ammonia as N (mg/L)	0.033				
	Acidity (as CaCO ₃) (mg/L)	<1.0				
	Alkalinity, Total (as CaCO ₃) (mg/L)	197				
	Bromide (Br) (mg/L)	<0.050				
	Chloride (Cl) (mg/L)	0.93				
	Fluoride (F) (mg/L)	0.099				
	Sulfate (SO ₄) (mg/L)	5.11				
	Nitrate (as N) (mg/L)	<0.0050				
	Nitrite (as N) (mg/L)	<0.0010				
	Total Kjeldahl Nitrogen (mg/L)	0.461				
	Total Nitrogen (mg/L)	0.461				
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050				
Total Metals	Aluminum (Al)-Total (mg/L)	0.0713				
	Antimony (Sb)-Total (mg/L)	0.000051				
	Arsenic (As)-total (mg/L)	0.000697				
	Barium (Ba)-Total (mg/L)	0.0245				
	Beryllium (Be)-total (mg/L)	<0.00020				
	Bismuth (Bi)-Total (mg/L)	<0.00050				
	Boron (B)-total (mg/L)	0.0142				
	Cadmium (Cd)-Total (mg/L)	<0.000017				
	Calcium (Ca)-Total (mg/L)	22.7				
	Chromium (Cr)-Total (mg/L)	0.00031				
	Cobalt (Co)-Total (mg/L)	<0.00010				
	Copper (Cu)-Total (mg/L)	<0.00050				
	Iron (Fe)-Total (mg/L)	0.079				
	Lead (Pb)-Total (mg/L)	0.000090				
	Lithium (Li)-Total (mg/L)	<0.0050				
	Magnesium (Mg)-Total (mg/L)	35.9				
	Manganese (Mn)-Total (mg/L)	0.00748				
	Mercury (Hg)-Total (mg/L)	<0.000020				
	Molybdenum (Mo)-Total (mg/L)	0.000146				
	Nickel (Ni)-Total (mg/L)	0.00039				
	Phosphorus (P)-Total (mg/L)	<0.30				

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L557029-1			
		Description				
		Sampled Date	12-SEP-07			
		Sampled Time				
		Client ID	WILLIAM LK 1-8 (Actually RUSSELL LK 1-8)			
Grouping	Analyte					
WATER						
Total Metals	Potassium (K)-Total (mg/L)		0.833			
	Selenium (Se)-Total (mg/L)		0.00028			
	Silicon (Si)-Total (mg/L)		2.96			
	Silver (Ag)-Total (mg/L)		<0.00010			
	Sodium (Na)-Total (mg/L)		1.47			
	Strontium (Sr)-Total (mg/L)		0.0268			
	Thallium (Tl)-Total (mg/L)		<0.000050			
	Tin (Sn)-Total (mg/L)		<0.00010			
	Titanium (Ti)-Total (mg/L)		<0.010			
	Uranium (U)-Total (mg/L)		0.000367			
	Vanadium (V)-Total (mg/L)		0.000565			
	Zinc (Zn)-Total (mg/L)		<0.0010			
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		0.0188			
	Antimony (Sb)-Dissolved (mg/L)		0.000054			
	Arsenic (As)-Dissolved (mg/L)		0.000741			
	Barium (Ba)-Dissolved (mg/L)		0.0223			
	Beryllium (Be)-Dissolved (mg/L)		<0.00020			
	Bismuth (Bi)-Dissolved (mg/L)		<0.00050			
	Boron (B)-Dissolved (mg/L)		0.0134			
	Cadmium (Cd)-Dissolved (mg/L)		<0.000017			
	Calcium (Ca)-Dissolved (mg/L)		21.8			
	Chromium (Cr)-Dissolved (mg/L)		0.00041			
	Cobalt (Co)-Dissolved (mg/L)		<0.00010			
	Copper (Cu)-Dissolved (mg/L)		<0.00050			
	Iron (Fe)-Dissolved (mg/L)		0.010			
	Lead (Pb)-Dissolved (mg/L)		<0.000050			
	Lithium (Li)-Dissolved (mg/L)		<0.0050			
	Magnesium (Mg)-Dissolved (mg/L)		34.9			
	Manganese (Mn)-Dissolved (mg/L)		0.00143			
	Mercury (Hg)-Dissolved (mg/L)		<0.000020			
	Molybdenum (Mo)-Dissolved (mg/L)		0.000153			
	Nickel (Ni)-Dissolved (mg/L)		0.00027			
	Phosphorus (P)-Dissolved (mg/L)		<0.30			
	Potassium (K)-Dissolved (mg/L)		0.819			
	Selenium (Se)-Dissolved (mg/L)		0.00015			
	Silicon (Si)-Dissolved (mg/L)		2.87			
	Silver (Ag)-Dissolved (mg/L)		<0.00010			
	Sodium (Na)-Dissolved (mg/L)		1.46			
	Strontium (Sr)-Dissolved (mg/L)		0.0263			

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID	L557029-1			
	Description				
	Sampled Date	12-SEP-07			
	Sampled Time				
	Client ID	WILLIAM LK 1-8 (Actually RUSSELL LK 1-8)			
Grouping	Analyte				
WATER					
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)	<0.000050			
	Tin (Sn)-Dissolved (mg/L)	<0.00010			
	Titanium (Ti)-Dissolved (mg/L)	<0.010			
	Uranium (U)-Dissolved (mg/L)	0.000351			
	Vanadium (V)-Dissolved (mg/L)	0.000479			
	Zinc (Zn)-Dissolved (mg/L)	0.0014			
Organic Parameters	Dissolved Organic Carbon (mg/L)	6.10			
	Total Organic Carbon (mg/L)	6.62			
Radiological Parameters	Radium-226 (Bq/L)	<0.005			

Reference Information**Methods Listed (if applicable):**

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automated Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
CARBONS-DOC-VA	Water	Dissolved organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colormetric	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
FE-DIS-LOW-ICP-VA	Water	Dissolved Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
FE-TOT-LOW-ICP-VA	Water	Total Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
<p>Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.</p>			
HG-DIS-LOW-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS(Low)	EPA SW-846 3005A & EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
HG-TOT-LOW-CVAFS-VA	Water	Total Mercury in Water by CVAFS(Low)	EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-DIS-ULTRA-MS-VA	Water	Diss. Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
MET-TOT-ULTRA-MS-VA	Water	Total Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
<p>This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p>			
RADIO-RADIUM226-SR	Water	Radium 226	CANMET 1986
TDS-LOW-VA	Water	Low Level TDS (3.0mg/L) by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.</p>			
TKN-COL-VA	Water	Total Kjeldahl Nitrogen by Auto. Colour	APHA 4500-Norg (TKN)
<p>This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.</p>			
TN-CALC-VA	Water	TN by Calc (TKN + N+N)	BC MOE LABORATORY MANUAL (2005)
<p>Total Nitrogen is determined by calculation by suming TKN and the NO2 and NO3 results.</p>			
TSS-LOW-VA	Water	Total Suspended Solids by Grav. (1 mg/L)	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.</p>			
TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
<p>This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.</p>			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
SR	Saskatchewan Research Council - Saskatoon, Saskatchewan, Can	VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

SRC ANALYTICAL**L7.5-393** Oct 09, 2007

422 Downey Road

Saskatoon, Saskatchewan, Canada

S7N 4N1

(306) 933-6932 or 1-800-240-8808

Fax: (306) 933-7922

ALS

Aurora Laboratory Services Ltd.

1988 Triumph Street

Vancouver, British Columbia V5L 1K5

Page 1 of 1

Sample # **33103** Client PO #: **LW12572**
 Date Sampled: **Sep 12, 2007** Date Received: **Sep 24, 2007**
 Sample Matrix: **WATER**
 Description: **L557029-1 WILLIAM LK** (Actually RUSSELL LK)

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Oct 09, 2007

"<": not detected at level stated above.

Chain of Custody / Analytical Request Form
 Canada Toll Free: 1 800 668 9878
 www.alsglobal.com

COC #

Page (of 1

Report to: Dr. David Mchaina Company: Victory Nickel Inc. Contact: #1802-80 Richmond Street Address: Toronto, Ont. M5H 1A4 Phone: (519) 241-9655 Fax: (416) 626-0890		Report Format / Distribution Regular Service (Default) Rush Service (2-3 Days) Priority Service (1 Day or ASAP) Emergency Service (<1 Day / Wkend) - Contact AL	
Invoice To: Company: same as above Contact: Address: Sample Phone: Lab Work Order # LS57029 (lab use only)		Analysis Request Indicate Bottles: Filtered / Preserved (F/P) --> P P P P P P P 1 - General Parameters 2 - Radium-226 3 - Weak Acid Dissociable Cyanide 4 - Diss. Low Level Metals 5 - Total Low Level Metals 6 - Dissolved Organic Carbon 7 - Total Organic Carbon 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2 Highly Contaminated? Hazardous? Number of Containers	
Client / Project Information: Job #: Minago Project PO/A/E: Legal Site Description: Minago Project Quote #: ALS-E007-480 ALS Contact: Bryan Mark Sampler (initials): Karin Renken/Ken Bud		Special Instructions / Hazardous Details	
Sample Identification (This description will appear on the report)		Date dd-mm-yy Sept. 12, 2007 Sept. 12, 2007 Sept. 12, 2007 Sept. 12, 2007 Sept. 12, 2007 Sept. 12, 2007 Sept. 12, 2007 Sept. 12, 2007	
Sample # 1 William Lk 1 - General Parameters 1 William Lk 2 - Radium-226 1 William Lk 3 - Weak Acid Dissociable Cyanide 1 William Lk 4 - Diss. Low Level Metals 1 William Lk 5 - Total Low Level Metals 1 William Lk 6 - Dissolved Organic Carbon 1 William Lk 7 - Total Organic Carbon 1 William Lk 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2		Time hh:mm water water water water water water water	
Guidelines / Regulations		Temperature 15	
Relinquished By:		Date & Time: 4D 07/09/2007 9:38	
Relinquished By:		Date & Time:	
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.			
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.			

Ken Renken
 Sept. 14, 2007



Environmental Division

ANALYTICAL REPORT

VICTORY NICKEL INC.
ATTN: DR. DAVID MACHAINA
#1802 - 80 RICHMOND STREET
TORONTO ON M5H 1A4

Reported On: 26-OCT-07 04:35 PM
Revision: 1

Lab Work Order #: L557031

Date Received: 20-SEP-07

Project P.O. #:
Job Reference: VICTORY NICKEL MINAGO PROJECT
Legal Site Desc: MINAGO PROJECT
CofC Numbers:

Other Information:

Comments: ADDITIONAL 23-OCT-07 14:31

Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Bryan Mark

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS Canada Ltd.
Part of the **ALS Laboratory Group**

1988 Triumph Street, Vancouver, BC V5L 1K5
Phone: +1 604 253 4188 Fax: +1 604 253 6700 www.alsglobal.com
A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L557031-1			
		Description				
		Sampled Date	12-SEP-07			
		Sampled Time				
		Client ID	LITTLE LLK 1-8			
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)		216			
	Conductivity (uS/cm)		364			
	pH (pH)		8.40			
	Total Dissolved Solids (mg/L)		196			
	Total Suspended Solids (mg/L)		9.2			
	Turbidity (NTU)		6.75			
Anions and Nutrients	Ammonia as N (mg/L)		0.042			
	Acidity (as CaCO3) (mg/L)		<1.0			
	Alkalinity, Total (as CaCO3) (mg/L)		227			
	Bromide (Br) (mg/L)		<0.050			
	Chloride (Cl) (mg/L)		0.80			
	Fluoride (F) (mg/L)		0.104			
	Sulfate (SO4) (mg/L)		6.50			
	Nitrate (as N) (mg/L)		<0.0050			
	Nitrite (as N) (mg/L)		<0.0010			
	Total Kjeldahl Nitrogen (mg/L)		0.277			
	Total Nitrogen (mg/L)		0.277			
Cyanides	Cyanide, Weak Acid Diss (mg/L)		<0.0050			
Total Metals	Aluminum (Al)-Total (mg/L)		0.0492			
	Antimony (Sb)-Total (mg/L)		0.000065			
	Arsenic (As)-total (mg/L)		0.000913			
	Barium (Ba)-Total (mg/L)		0.0307			
	Beryllium (Be)-total (mg/L)		<0.00020			
	Bismuth (Bi)-Total (mg/L)		<0.00050			
	Boron (B)-total (mg/L)		0.0150			
	Cadmium (Cd)-Total (mg/L)		<0.000017			
	Calcium (Ca)-Total (mg/L)		27.0			
	Chromium (Cr)-Total (mg/L)		0.00038			
	Cobalt (Co)-Total (mg/L)		<0.00010			
	Copper (Cu)-Total (mg/L)		<0.00050			
	Iron (Fe)-Total (mg/L)		0.025			
	Lead (Pb)-Total (mg/L)		0.000079			
	Lithium (Li)-Total (mg/L)		<0.0050			
	Magnesium (Mg)-Total (mg/L)		37.7			
	Manganese (Mn)-Total (mg/L)		0.00206			
	Mercury (Hg)-Total (mg/L)		<0.000020			
	Molybdenum (Mo)-Total (mg/L)		0.000223			
	Nickel (Ni)-Total (mg/L)		0.00040			
	Phosphorus (P)-Total (mg/L)		<0.30			

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID	L557031-1				
Description					
Sampled Date	12-SEP-07				
Sampled Time					
Client ID	LITTLE LLK 1-8				
Grouping	Analyte				
WATER					
Total Metals	Potassium (K)-Total (mg/L)	0.901			
	Selenium (Se)-Total (mg/L)	0.00016			
	Silicon (Si)-Total (mg/L)	3.38			
	Silver (Ag)-Total (mg/L)	<0.00010			
	Sodium (Na)-Total (mg/L)	1.31			
	Strontium (Sr)-Total (mg/L)	0.0294			
	Thallium (Tl)-Total (mg/L)	<0.000050			
	Tin (Sn)-Total (mg/L)	<0.00010			
	Titanium (Ti)-Total (mg/L)	<0.010			
	Uranium (U)-Total (mg/L)	0.000501			
	Vanadium (V)-Total (mg/L)	0.000651			
	Zinc (Zn)-Total (mg/L)	<0.0010			
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0020			
	Antimony (Sb)-Dissolved (mg/L)	0.000067			
	Arsenic (As)-Dissolved (mg/L)	0.000888			
	Barium (Ba)-Dissolved (mg/L)	0.0293			
	Beryllium (Be)-Dissolved (mg/L)	<0.00020			
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050			
	Boron (B)-Dissolved (mg/L)	0.0145			
	Cadmium (Cd)-Dissolved (mg/L)	<0.000017			
	Calcium (Ca)-Dissolved (mg/L)	25.1			
	Chromium (Cr)-Dissolved (mg/L)	0.00027			
	Cobalt (Co)-Dissolved (mg/L)	<0.00010			
	Copper (Cu)-Dissolved (mg/L)	0.00051			
	Iron (Fe)-Dissolved (mg/L)	<0.010			
	Lead (Pb)-Dissolved (mg/L)	<0.000050			
	Lithium (Li)-Dissolved (mg/L)	<0.0050			
	Magnesium (Mg)-Dissolved (mg/L)	37.3			
	Manganese (Mn)-Dissolved (mg/L)	0.000274			
	Mercury (Hg)-Dissolved (mg/L)	<0.000020			
	Molybdenum (Mo)-Dissolved (mg/L)	0.000228			
	Nickel (Ni)-Dissolved (mg/L)	0.00037			
	Phosphorus (P)-Dissolved (mg/L)	<0.30			
	Potassium (K)-Dissolved (mg/L)	0.931			
	Selenium (Se)-Dissolved (mg/L)	0.00014			
	Silicon (Si)-Dissolved (mg/L)	3.25			
	Silver (Ag)-Dissolved (mg/L)	<0.00010			
	Sodium (Na)-Dissolved (mg/L)	1.37			
	Strontium (Sr)-Dissolved (mg/L)	0.0290			

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID	L557031-1			
	Description				
	Sampled Date	12-SEP-07			
	Sampled Time				
	Client ID	LITTLE LLK 1-8			
Grouping	Analyte				
WATER					
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)	<0.000050			
	Tin (Sn)-Dissolved (mg/L)	<0.00010			
	Titanium (Ti)-Dissolved (mg/L)	<0.010			
	Uranium (U)-Dissolved (mg/L)	0.000499			
	Vanadium (V)-Dissolved (mg/L)	0.000627			
	Zinc (Zn)-Dissolved (mg/L)	<0.0010			
Organic Parameters	Dissolved Organic Carbon (mg/L)	3.09			
	Total Organic Carbon (mg/L)	2.84			
Radiological Parameters	Radium-226 (Bq/L)	0.008			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automated Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
CARBONS-DOC-VA	Water	Dissolved organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colormetric	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
FE-DIS-LOW-ICP-VA	Water	Dissolved Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
FE-TOT-LOW-ICP-VA	Water	Total Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
<p>Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.</p>			
HG-DIS-LOW-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS(Low)	EPA SW-846 3005A & EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
HG-TOT-LOW-CVAFS-VA	Water	Total Mercury in Water by CVAFS(Low)	EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-DIS-ULTRA-MS-VA	Water	Diss. Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
MET-TOT-ULTRA-MS-VA	Water	Total Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
<p>This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p>			
RADIO-RADIUM226-SR	Water	Radium 226	CANMET 1986
TDS-LOW-VA	Water	Low Level TDS (3.0mg/L) by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.</p>			
TKN-COL-VA	Water	Total Kjeldahl Nitrogen by Auto. Colour	APHA 4500-Norg (TKN)
<p>This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.</p>			
TN-CALC-VA	Water	TN by Calc (TKN + N+N)	BC MOE LABORATORY MANUAL (2005)
<p>Total Nitrogen is determined by calculation by suming TKN and the NO2 and NO3 results.</p>			
TSS-LOW-VA	Water	Total Suspended Solids by Grav. (1 mg/L)	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.</p>			
TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
<p>This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.</p>			
<p>** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:</p>			
Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
SR	Saskatchewan Research Council - Saskatoon, Saskatchewan, Can	VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

SRC ANALYTICAL**L7.5-403**

Oct 09, 2007

422 Downey Road

Saskatoon, Saskatchewan, Canada

S7N 4N1

(306) 933-6932 or 1-800-240-8808

Fax: (306) 933-7922

ALS

Aurora Laboratory Services Ltd.

1988 Triumph Street

Vancouver, British Columbia V5L 1K5

Page 1 of 1

Sample # **33102**
Date Sampled: **Sep 12, 2007**
Sample Matrix: **WATER**
Description: **L557031-1 LITTLE LK**

Client PO #: **LW12572**
Date Received: **Sep 24, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.008	0.005	Oct 09, 2007

Report to: Dr. David McHaina Company: Victory Nickel Inc. Contact: #1802-80 Richmond Street Address: Toronto, Ont. M5H 1A4 Phone: (519) 241-9655 Fax: (416) 626-0890		Report Format / Distribution Regular Service (Default) Rush Service (2-3 Days) Priority Service (1 Day or ASAP) Emergency Service (<1 Day / Weekend) - Contact ALS		
Invoice To: Company: same as above Contact: Address: Sample: Phone: Lab Work Order # LS57031		Indicate Bottles: Filtered / Preserved (FP) --- Client / Project Information: Job #: Minago Project PO/AFE: Legal Site Description: Minago Project Quote #: ALS-EQ07-480 ALS Contact: Bryan Mark Sampler (Initials): Karin Renken/Ken Bud		
Sample #	Sample Identification	Date	Time	Sample Type
	(This description will appear on the report)	dd-mm-yy	hh:mm	(Select from drop-down list)
1	Little LLk 1 - General Parameters	Sept. 12, 2007		water
1	Little LLk 2 - Radium-226	Sept. 12, 2007		water
1	Little LLk 3 - Weak Acid Dissociable Cyanide	Sept. 12, 2007		water
1	Little LLk 4 - Diss. Low Level Metals	Sept. 12, 2007		water
1	Little LLk 5 - Total Low Level Metals	Sept. 12, 2007		water
1	Little LLk 6 - Dissolved Organic Carbon	Sept. 12, 2007		water
1	Little LLk 7 - Total Organic Carbon	Sept. 12, 2007		water
1	Little LLk 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2	Sept. 12, 2007		water
Guidelines / Regulations				
Special Instructions / Hazardous Details				
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.				
Relinquished By:	Date & Time:	Received By:	Date & Time:	Temperature
				150
Relinquished By:	Date & Time:	Received By:	Date & Time:	Sample Condition (lab use only)
				Temperature 150 Samples Relinquished in Good Condition Y/N (if no provide details)

Kari Renken
 Sept. 14, 2007



Environmental Division

ANALYTICAL REPORT

VICTORY NICKEL INC.
ATTN: DR. DAVID MCHAINA
#1802 - 80 RICHMOND STREET
TORONTO ON M5H 1A4

Reported On: 25-OCT-07 06:00 PM

Lab Work Order #: L557283

Date Received: 21-SEP-07


Project P.O. #:
Job Reference: VICTORY NICKEL MINAGO PROJECT
Legal Site Desc: MINAGO PROJECT
CofC Numbers:

Other Information:

Comments: For some of the submitted water samples, the measured concentration of specific dissolved parameters is greater than the corresponding total parameters concentration. The explanation for these findings is one or a combination of the following:

- laboratory method variability;
- field sampling method variability;
- bias introduced during general handling, storage, transportation and/or analysis of the sample;
- field sample grab bias - where separate grab samples are processed to produce total and dissolved samples;
- field sample split bias - where total and dissolved parameters samples are produced from the same grab sample.

For further clarification on any of the above information, please contact your ALS account manager.



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Bryan Mark

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L557283-1			
		Description				
		Sampled Date	11-SEP-07			
		Sampled Time				
		Client ID	OCW1-1-8			
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)		224			
	Conductivity (uS/cm)		402			
	pH (pH)		8.13			
	Total Dissolved Solids (mg/L)		258			
	Total Suspended Solids (mg/L)		<1.0			
	Turbidity (NTU)		0.48			
Anions and Nutrients	Ammonia as N (mg/L)		0.031			
	Acidity (as CaCO ₃) (mg/L)		3.6			
	Alkalinity, Total (as CaCO ₃) (mg/L)		238			
	Bromide (Br) (mg/L)		<0.050			
	Chloride (Cl) (mg/L)		<0.50			
	Fluoride (F) (mg/L)		0.083			
	Sulfate (SO ₄) (mg/L)		1.20			
	Nitrate (as N) (mg/L)		<0.0050			
	Nitrite (as N) (mg/L)		<0.0010			
	Total Kjeldahl Nitrogen (mg/L)		0.433			
	Total Nitrogen (mg/L)		0.433			
Cyanides	Cyanide, Weak Acid Diss (mg/L)		<0.0050			
Total Metals	Aluminum (Al)-Total (mg/L)		0.0132			
	Antimony (Sb)-Total (mg/L)		<0.000050			
	Arsenic (As)-total (mg/L)		0.000389			
	Barium (Ba)-Total (mg/L)		0.0273			
	Beryllium (Be)-total (mg/L)		<0.00020			
	Bismuth (Bi)-Total (mg/L)		<0.00050			
	Boron (B)-total (mg/L)		0.0070			
	Cadmium (Cd)-Total (mg/L)		<0.000017			
	Calcium (Ca)-Total (mg/L)		50.4			
	Chromium (Cr)-Total (mg/L)		<0.00010			
	Cobalt (Co)-Total (mg/L)		<0.00010			
	Copper (Cu)-Total (mg/L)		<0.00050			
	Iron (Fe)-Total (mg/L)		0.087			
	Lead (Pb)-Total (mg/L)		<0.000050			
	Lithium (Li)-Total (mg/L)		<0.0050			
	Magnesium (Mg)-Total (mg/L)		25.8			
	Manganese (Mn)-Total (mg/L)		0.0142			
	Mercury (Hg)-Total (mg/L)		<0.000020			
	Molybdenum (Mo)-Total (mg/L)		0.000063			
	Nickel (Ni)-Total (mg/L)		0.00021			
	Phosphorus (P)-Total (mg/L)		<0.30			

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L557283-1			
		Description				
		Sampled Date	11-SEP-07			
		Sampled Time				
		Client ID	OCW1-1-8			
Grouping	Analyte					
WATER						
Total Metals	Potassium (K)-Total (mg/L)		0.697			
	Selenium (Se)-Total (mg/L)		<0.00010			
	Silicon (Si)-Total (mg/L)		4.29			
	Silver (Ag)-Total (mg/L)		<0.00010			
	Sodium (Na)-Total (mg/L)		2.23			
	Strontium (Sr)-Total (mg/L)		0.0536			
	Thallium (Tl)-Total (mg/L)		<0.000050			
	Tin (Sn)-Total (mg/L)		<0.00010			
	Titanium (Ti)-Total (mg/L)		<0.010			
	Uranium (U)-Total (mg/L)		0.000230			
	Vanadium (V)-Total (mg/L)		0.000093			
	Zinc (Zn)-Total (mg/L)		<0.0010			
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		0.0049			
	Antimony (Sb)-Dissolved (mg/L)		<0.000050			
	Arsenic (As)-Dissolved (mg/L)		0.000383			
	Barium (Ba)-Dissolved (mg/L)		0.0255			
	Beryllium (Be)-Dissolved (mg/L)		<0.00020			
	Bismuth (Bi)-Dissolved (mg/L)		<0.00050			
	Boron (B)-Dissolved (mg/L)		0.0067			
	Cadmium (Cd)-Dissolved (mg/L)		<0.000017			
	Calcium (Ca)-Dissolved (mg/L)		48.4			
	Chromium (Cr)-Dissolved (mg/L)		<0.00010			
	Cobalt (Co)-Dissolved (mg/L)		<0.00010			
	Copper (Cu)-Dissolved (mg/L)		<0.00050			
	Iron (Fe)-Dissolved (mg/L)		0.059			
	Lead (Pb)-Dissolved (mg/L)		0.000053			
	Lithium (Li)-Dissolved (mg/L)		<0.0050			
	Magnesium (Mg)-Dissolved (mg/L)		25.0			
	Manganese (Mn)-Dissolved (mg/L)		0.0106			
	Mercury (Hg)-Dissolved (mg/L)		<0.000020			
	Molybdenum (Mo)-Dissolved (mg/L)		0.000063			
	Nickel (Ni)-Dissolved (mg/L)		0.00032			
	Phosphorus (P)-Dissolved (mg/L)		<0.30			
	Potassium (K)-Dissolved (mg/L)		0.800			
	Selenium (Se)-Dissolved (mg/L)		<0.00010			
	Silicon (Si)-Dissolved (mg/L)		4.16			
	Silver (Ag)-Dissolved (mg/L)		<0.00010			
	Sodium (Na)-Dissolved (mg/L)		2.29			
	Strontium (Sr)-Dissolved (mg/L)		0.0511			

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L557283-1			
		Description				
		Sampled Date	11-SEP-07			
		Sampled Time				
		Client ID	OCW1-1-8			
Grouping	Analyte					
WATER						
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)		<0.000050			
	Tin (Sn)-Dissolved (mg/L)		<0.00010			
	Titanium (Ti)-Dissolved (mg/L)		<0.010			
	Uranium (U)-Dissolved (mg/L)		0.000220			
	Vanadium (V)-Dissolved (mg/L)		0.000060			
	Zinc (Zn)-Dissolved (mg/L)		0.0058			
Organic Parameters	Dissolved Organic Carbon (mg/L)		12.7			
	Total Organic Carbon (mg/L)		12.8			
Radiological Parameters	Radium-226 (Bq/L)		0.006			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automated Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
CARBONS-DOC-VA	Water	Dissolved organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colormetric	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
FE-DIS-LOW-ICP-VA	Water	Dissolved Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
FE-TOT-LOW-ICP-VA	Water	Total Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
<p>Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.</p>			
HG-DIS-LOW-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS(Low)	EPA SW-846 3005A & EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
HG-TOT-LOW-CVAFS-VA	Water	Total Mercury in Water by CVAFS(Low)	EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-DIS-ULTRA-MS-VA	Water	Diss. Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
MET-TOT-ULTRA-MS-VA	Water	Total Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
<p>This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p>			
RADIO-RADIUM226-SR	Water	Radium 226	CANMET 1986
TDS-LOW-VA	Water	Low Level TDS (3.0mg/L) by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.</p>			
TKN-COL-VA	Water	Total Kjeldahl Nitrogen by Auto. Colour	APHA 4500-Norg (TKN)
<p>This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.</p>			
TN-CALC-VA	Water	TN by Calc (TKN + N+N)	BC MOE LABORATORY MANUAL (2005)
<p>Total Nitrogen is determined by calculation by suming TKN and the NO2 and NO3 results.</p>			
TSS-LOW-VA	Water	Total Suspended Solids by Grav. (1 mg/L)	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.</p>			
TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
<p>This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.</p>			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
SR	Saskatchewan Research Council - Saskatoon, Saskatchewan, Can	VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

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UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

SRC ANALYTICAL**L7.5-413**

Oct 11, 2007

422 Downey Road

Saskatoon, Saskatchewan, Canada

S7N 4N1

(306) 933-6932 or 1-800-240-8808

Fax: (306) 933-7922

ALS

Aurora Laboratory Services Ltd.

1988 Triumph Street

Vancouver, British Columbia V5L 1K5

Attn: ALS ED REPORTING

Page 1 of 1

Sample # **33257**
Date Sampled: **Sep 11, 2007**
Sample Matrix: **WATER**
Description: **L557283-1 OCW1**

Client PO #: **LW12585**
Date Received: **Sep 25, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.006	0.005	Oct 10, 2007

Report to: Dr. David Mchaina		Report Format / Distribution		Service Requested:	
Company: Victory Nickel Inc.		Email 1: dmchaina@hotmail.com		Regular Service (Default)	
Contact: #1802-80 Richmond Street		Email 2:		Rush Service (2-3 Days)	
Address: Toronto, Ont M5H 1A4				Priority Service (1 Day or ASAP)	
Phone: (519) 241-9655 Fax: (416) 626-0890				Emergency Service (<1 Day / Weekend) - Contact ALS	
Invoice To: same as above		Client / Project Information:		Analysis Request	
Contact: same as above		Job #: Minago Project		P P P P	
Address: same as above		PO/A/E: Minago Project			
Sample: same as above		Legal Site Description: Minago Project			
Phone: same as above		Quote #: ALS-E007-480			
Fax: same as above		ALS Contact: Bryan Mark			
Lab Work Order # (lab use only) 1551283		Sampler (Initials): Karin Renken/Ken Bud			
Sample Identification (This description will appear on the report)		Date		Time	
#		dd-mm-yy		hh:mm (Selected from drop-down list)	
1 - General Parameters		Sept 11, 2007		water	
1 - Radium-226		Sept 11, 2007		water	
1 - Weak Acid Dissociable Cyanide		Sept 11, 2007		water	
1 - Diss. Low Level Metals		Sept 11, 2007		water	
1 - Total Low Level Metals		Sept 11, 2007		water	
1 - Dissolved Organic Carbon		Sept 11, 2007		water	
1 - Total Organic Carbon		Sept 11, 2007		water	
1 - TKN & NH3 and at 1:100 Dilution NO3 & NO2		Sept 11, 2007		water	
Guidelines / Regulations		Special Instructions / Hazardous Details			
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.					
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.					
Retinquished By:		Received By:		Temperature	
Date & Time:		Date & Time:		Samples Received in Good Condition? (if no provide details)	
		HD07/09/2007		14	

Karin Renken
 Sept. 14, 2007

L7.5-414



Environmental Division

ANALYTICAL REPORT

VICTORY NICKEL INC.

ATTN: DR. DAVID MCHAINA

#1802 - 80 RICHMOND STREET

TORONTO ON M5H 1A4

Reported On: 25-OCT-07 06:01 PM

Lab Work Order #: L557285

Date Received: 20-SEP-07

Project P.O. #:

Job Reference: MINAGO PROJECT

Legal Site Desc: MINAGO PROJECT

CofC Numbers:

Other Information:

Comments: ADDITIONAL 23-OCT-07 14:51

Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Bryan Mark

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L557285-1			
		Description				
		Sampled Date	11-SEP-07			
		Sampled Time				
		Client ID	HRW1			
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)		108			
	Conductivity (uS/cm)		210			
	pH (pH)		8.11			
	Total Dissolved Solids (mg/L)		165			
	Total Suspended Solids (mg/L)		11.2			
	Turbidity (NTU)		26.3			
Anions and Nutrients	Ammonia as N (mg/L)		0.109			
	Acidity (as CaCO ₃) (mg/L)		2.0			
	Alkalinity, Total (as CaCO ₃) (mg/L)		117			
	Bromide (Br) (mg/L)		<0.050			
	Chloride (Cl) (mg/L)		0.72			
	Fluoride (F) (mg/L)		0.068			
	Sulfate (SO ₄) (mg/L)		0.56			
	Nitrate (as N) (mg/L)		<0.0050			
	Nitrite (as N) (mg/L)		<0.0010			
	Total Kjeldahl Nitrogen (mg/L)		0.687			
	Total Nitrogen (mg/L)		0.687			
Cyanides	Cyanide, Weak Acid Diss (mg/L)		<0.0050			
Total Metals	Aluminum (Al)-Total (mg/L)		0.923			
	Antimony (Sb)-Total (mg/L)		<0.000050			
	Arsenic (As)-total (mg/L)		0.00112			
	Barium (Ba)-Total (mg/L)		0.0178			
	Beryllium (Be)-total (mg/L)		<0.00020			
	Bismuth (Bi)-Total (mg/L)		<0.00050			
	Boron (B)-total (mg/L)		0.0263			
	Cadmium (Cd)-Total (mg/L)		<0.000017			
	Calcium (Ca)-Total (mg/L)		27.4			
	Chromium (Cr)-Total (mg/L)		0.00150			
	Cobalt (Co)-Total (mg/L)		0.00045			
	Copper (Cu)-Total (mg/L)		0.00643			
	Iron (Fe)-Total (mg/L)		1.10			
	Lead (Pb)-Total (mg/L)		0.000487			
	Lithium (Li)-Total (mg/L)		<0.0050			
	Magnesium (Mg)-Total (mg/L)		11.0			
	Manganese (Mn)-Total (mg/L)		0.0476			
	Mercury (Hg)-Total (mg/L)		<0.000020			
	Molybdenum (Mo)-Total (mg/L)		0.000064			
	Nickel (Ni)-Total (mg/L)		0.00623			
	Phosphorus (P)-Total (mg/L)		<0.30			

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L557285-1			
		Description				
		Sampled Date	11-SEP-07			
		Sampled Time				
		Client ID	HRW1			
Grouping	Analyte					
WATER						
Total Metals	Potassium (K)-Total (mg/L)	1.01				
	Selenium (Se)-Total (mg/L)	0.00011				
	Silicon (Si)-Total (mg/L)	5.82				
	Silver (Ag)-Total (mg/L)	<0.00010				
	Sodium (Na)-Total (mg/L)	3.73				
	Strontium (Sr)-Total (mg/L)	0.0514				
	Thallium (Tl)-Total (mg/L)	<0.000050				
	Tin (Sn)-Total (mg/L)	0.00039				
	Titanium (Ti)-Total (mg/L)	0.035				
	Uranium (U)-Total (mg/L)	0.000122				
	Vanadium (V)-Total (mg/L)	0.00250				
	Zinc (Zn)-Total (mg/L)	0.0041				
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0920				
	Antimony (Sb)-Dissolved (mg/L)	<0.000050				
	Arsenic (As)-Dissolved (mg/L)	0.00105				
	Barium (Ba)-Dissolved (mg/L)	0.0109				
	Beryllium (Be)-Dissolved (mg/L)	<0.00020				
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050				
	Boron (B)-Dissolved (mg/L)	0.0179				
	Cadmium (Cd)-Dissolved (mg/L)	<0.000017				
	Calcium (Ca)-Dissolved (mg/L)	26.3				
	Chromium (Cr)-Dissolved (mg/L)	<0.00010				
	Cobalt (Co)-Dissolved (mg/L)	<0.00010				
	Copper (Cu)-Dissolved (mg/L)	0.00099				
	Iron (Fe)-Dissolved (mg/L)	0.214				
	Lead (Pb)-Dissolved (mg/L)	0.000106				
	Lithium (Li)-Dissolved (mg/L)	<0.0050				
	Magnesium (Mg)-Dissolved (mg/L)	10.2				
	Manganese (Mn)-Dissolved (mg/L)	0.0287				
	Mercury (Hg)-Dissolved (mg/L)	<0.000020				
	Molybdenum (Mo)-Dissolved (mg/L)	0.000056				
	Nickel (Ni)-Dissolved (mg/L)	0.00058				
	Phosphorus (P)-Dissolved (mg/L)	<0.30				
	Potassium (K)-Dissolved (mg/L)	0.759				
	Selenium (Se)-Dissolved (mg/L)	<0.00010				
	Silicon (Si)-Dissolved (mg/L)	4.43				
	Silver (Ag)-Dissolved (mg/L)	<0.00010				
	Sodium (Na)-Dissolved (mg/L)	3.51				
	Strontium (Sr)-Dissolved (mg/L)	0.0491				

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID	L557285-1			
	Description				
	Sampled Date	11-SEP-07			
	Sampled Time				
	Client ID	HRW1			
Grouping	Analyte				
WATER					
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)	<0.000050			
	Tin (Sn)-Dissolved (mg/L)	0.00024			
	Titanium (Ti)-Dissolved (mg/L)	<0.010			
	Uranium (U)-Dissolved (mg/L)	0.000103			
	Vanadium (V)-Dissolved (mg/L)	0.000668			
	Zinc (Zn)-Dissolved (mg/L)	<0.0010			
Organic Parameters	Dissolved Organic Carbon (mg/L)	18.8			
	Total Organic Carbon (mg/L)	20.3			
Radiological Parameters	Radium-226 (Bq/L)	<0.005			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automated Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
CARBONS-DOC-VA	Water	Dissolved organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colormetric	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
FE-DIS-LOW-ICP-VA	Water	Dissolved Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
FE-TOT-LOW-ICP-VA	Water	Total Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
<p>Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.</p>			
HG-DIS-LOW-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS(Low)	EPA SW-846 3005A & EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
HG-TOT-LOW-CVAFS-VA	Water	Total Mercury in Water by CVAFS(Low)	EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-DIS-ULTRA-MS-VA	Water	Diss. Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
MET-TOT-ULTRA-MS-VA	Water	Total Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).			
NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode			
RADIO-RADIUM226-SR	Water	Radium 226	CANMET 1986
TDS-LOW-VA	Water	Low Level TDS (3.0mg/L) by Gravimetric	APHA 2540 Gravimetric
This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.			
TKN-COL-VA	Water	Total Kjeldahl Nitrogen by Auto. Colour	APHA 4500-Norg (TKN)
This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.			
TN-CALC-VA	Water	TN by Calc (TKN + N+N)	BC MOE LABORATORY MANUAL (2005)
Total Nitrogen is determined by calculation by suming TKN and the NO2 and NO3 results.			
TSS-LOW-VA	Water	Total Suspended Solids by Grav. (1 mg/L)	APHA 2540 Gravimetric
This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.			
TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
SR	Saskatchewan Research Council - Saskatoon, Saskatchewan, Can	VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

SRC ANALYTICAL

422 Downey Road

Saskatoon, Saskatchewan, Canada

S7N 4N1

(306) 933-6932 or 1-800-240-8808

Fax: (306) 933-7922

ALS

Aurora Laboratory Services Ltd.

1988 Triumph Street

Vancouver, British Columbia V5L 1K5

Page 1 of 1

Sample # **33269**
 Date Sampled: **Sep 11, 2007**
 Sample Matrix: **WATER**
 Description: **L557285-1 HRW1**

Client PO #: **LW12585**
 Date Received: **Sep 25, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Oct 10, 2007

"<": not detected at level stated above.

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L555597-3	Water	WG667201-3	Ammonia as N	0.021	0.021	mg/L	-	-	0.001	0.08	J
Total Metals											
L555597-3	Water	WG661949-3	Aluminum (Al)-Total	0.126	0.175	mg/L	8.3	20	-	-	-
L555597-3	Water	WG661949-3	Antimony (Sb)-Total	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L555597-3	Water	WG661949-3	Arsenic (As)-total	0.000572	0.000598	mg/L	4.4	20	-	-	-
L555597-3	Water	WG661949-3	Barium (Ba)-Total	0.0190	0.0205	mg/L	7.2	20	-	-	-
L555597-3	Water	WG661949-3	Beryllium (Be)-total	<0.00020	<0.00020	mg/L	N/A	20	-	-	RPD-NA
L555597-3	Water	WG661949-3	Bismuth (Bi)-Total	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L555597-3	Water	WG661949-3	Boron (B)-total	0.0111	0.0113	mg/L	1.7	20	-	-	-
L555597-3	Water	WG661949-3	Cadmium (Cd)-Total	<0.000017	<0.000017	mg/L	N/A	20	-	-	RPD-NA
L555597-3	Water	WG661949-3	Calcium (Ca)-Total	24.0	25.2	mg/L	4.9	20	-	-	-
L555597-3	Water	WG661949-3	Chromium (Cr)-Total	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L555597-3	Water	WG661949-3	Cobalt (Co)-Total	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L555597-3	Water	WG661949-3	Copper (Cu)-Total	<0.00050	0.00045	mg/L	-	-	0.00012	0.0004	J
L555597-3	Water	WG661949-3	Iron (Fe)-Total	0.157	0.185	mg/L	16	20	-	-	-
L555597-3	Water	WG661949-3	Lead (Pb)-Total	0.000082	0.000104	mg/L	-	-	0.000021	0.0002	J
L555597-3	Water	WG661949-3	Lithium (Li)-Total	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L555597-3	Water	WG661949-3	Magnesium (Mg)-Total	27.0	27.9	mg/L	3.4	20	-	-	-
L555597-3	Water	WG661949-3	Manganese (Mn)-Total	0.00779	0.00832	mg/L	6.6	20	-	-	-
L555597-3	Water	WG661949-3	Molybdenum (Mo)-Total	0.000102	0.000111	mg/L	-	-	0.000010	0.0002	J
L555597-3	Water	WG661949-3	Nickel (Ni)-Total	0.00041	0.00053	mg/L	-	-	0.00012	0.0004	J
L555597-3	Water	WG661949-3	Phosphorus (P)-Total	<0.30	<0.30	mg/L	N/A	20	-	-	RPD-NA
L555597-3	Water	WG661949-3	Potassium (K)-Total	0.903	0.954	mg/L	5.5	20	-	-	-
L555597-3	Water	WG661949-3	Selenium (Se)-Total	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L555597-3	Water	WG661949-3	Silicon (Si)-Total	3.32	3.50	mg/L	5.2	20	-	-	-
L555597-3	Water	WG661949-3	Silver (Ag)-Total	<0.00010	<0.000010	mg/L	N/A	20	-	-	RPD-NA
L555597-3	Water	WG661949-3	Sodium (Na)-Total	2.18	2.29	mg/L	5.3	20	-	-	-
L555597-3	Water	WG661949-3	Strontium (Sr)-Total	0.0290	0.0301	mg/L	4.0	20	-	-	-
L555597-3	Water	WG661949-3	Thallium (Tl)-Total	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L555597-3	Water	WG661949-3	Tin (Sn)-Total	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L555597-3	Water	WG661949-3	Titanium (Ti)-Total	0.010	0.012	mg/L	-	-	0.002	0.04	J
L555597-3	Water	WG661949-3	Uranium (U)-Total	0.000239	0.000255	mg/L	6.5	20	-	-	-
L555597-3	Water	WG661949-3	Vanadium (V)-Total	0.000633	0.000564	mg/L	12	20	-	-	-
L555597-3	Water	WG661949-3	Zinc (Zn)-Total	<0.0010	0.0011	mg/L	N/A	20	-	-	RPD-NA
Physical Tests											
L555597-4	Water	WG661977-9	Conductivity	204	204	uS/cm	0.0	20	-	-	-
L555597-4	Water	WG661977-9	pH	8.23	8.16	pH	0.88	20	-	-	-
Anions and Nutrients											
L555597-4	Water	WG661977-9	Acidity (as CaCO3)	2.1	3.9	mg/L	-	-	1.8	4	J
L555597-7	Water	WG662155-7	Bromide (Br)	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L555597-7	Water	WG662155-7	Chloride (Cl)	0.53	0.54	mg/L	-	-	0.00	2	J
L555597-7	Water	WG662155-7	Fluoride (F)	0.053	0.053	mg/L	-	-	0.000	0.08	J
L555597-7	Water	WG662155-7	Sulfate (SO4)	0.85	0.86	mg/L	-	-	0.01	2	J
L555597-8	Water	WG669118-3	Total Kjeldahl Nitrogen	0.590	0.635	mg/L	7.4	20	-	-	-
Physical Tests											
L555597-9	Water	WG665449-6	Turbidity	16.3	16.2	NTU	0.62	39	-	-	-
Anions and Nutrients											
L555597-10	Water	WG667255-4	Alkalinity, Total (as CaCO3)	69.6	75.2	mg/L	7.7	20	-	-	-
Organic Parameters											
L555597-14	Water	WG663531-2	Total Organic Carbon	13.2	13.4	mg/L	1.4	20	-	-	-
Total Metals											
L555597-16	Water	WG668683-7	Mercury (Hg)-Total	<0.000020	<0.000010	mg/L	N/A	20	-	-	RPD-NA

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Physical Tests										
Water	CRM	pH	WG665164-8	VA-PH7-BUF	7.03	7.00	pH	7.03	6.97-7.03	
Water	MB	Turbidity	WG666258-1		<0.10	<0.1	NTU	-	0.1	
Water	MB	Total Suspended Solids	WG668752-1		<3.0	<3	mg/L	-	3	
Anions and Nutrients										
Water	CRM	pH	WG665164-8	VA-PH7-BUF	7.03	7.00	pH	7.03	6.97-7.03	
Water	CRM	Bromide (Br)	WG665457-2	VA-ALLT-170088	1.00	1.00	mg/L	100	90-110	
Water	CRM	Chloride (Cl)	WG665457-2	VA-ALLT-170088	51.1	50.1	mg/L	102	94-106	
Water	CRM	Fluoride (F)	WG665457-2	VA-ALLT-170088	1.04	1.00	mg/L	104	93-107	
Water	CRM	Sulfate (SO4)	WG665457-2	VA-ALLT-170088	51.5	50.1	mg/L	103	93-107	
Water	CRM	Nitrate (as N)	WG665457-2	VA-ALLT-170088	0.228	0.225	mg/L	101	91-109	
Water	CRM	Nitrite (as N)	WG665457-2	VA-ALLT-170088	0.157	0.152	mg/L	103	91-109	
Water	CRM	Ammonia as N	WG665527-2	VA-SPXNUT-22-16	3.86	3.84	mg/L	101	86-114	
Water	CRM	Total Kjeldahl Nitrogen	WG670664-2	VA-TKN-CSPK1	1.09	1.00	mg/L	109	85-115	
Water	CRM	Bromide (Br)	WG665457-14	VA-ALLT-170088	1.04	1.00	mg/L	104	90-110	
Water	CRM	Chloride (Cl)	WG665457-14	VA-ALLT-170088	50.7	50.1	mg/L	101	94-106	
Water	CRM	Fluoride (F)	WG665457-14	VA-ALLT-170088	1.04	1.00	mg/L	104	93-107	
Water	CRM	Sulfate (SO4)	WG665457-14	VA-ALLT-170088	51.0	50.1	mg/L	102	93-107	
Water	CRM	Nitrate (as N)	WG665457-14	VA-ALLT-170088	0.226	0.225	mg/L	100	91-109	
Water	CRM	Nitrite (as N)	WG665457-14	VA-ALLT-170088	0.153	0.152	mg/L	101	91-109	
Water	MB	Bromide (Br)	WG665457-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG665457-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG665457-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG665457-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG665457-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG665457-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG665457-4		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG665457-4		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG665457-4		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG665457-4		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG665457-4		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG665457-4		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG665457-6		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG665457-6		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG665457-6		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG665457-6		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG665457-6		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG665457-6		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG665457-8		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG665457-8		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG665457-8		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG665457-8		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG665457-8		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG665457-8		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Ammonia as N	WG665527-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Alkalinity, Total (as CaCO3)	WG668724-1		<2.0	<2	mg/L	-	2	
Water	MB	Total Kjeldahl Nitrogen	WG670664-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Bromide (Br)	WG665457-10		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG665457-10		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG665457-10		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG665457-10		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG665457-10		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG665457-10		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG665457-13		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG665457-13		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG665457-13		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG665457-13		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG665457-13		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG665457-13		<0.0010	<0.001	mg/L	-	0.001	
Cyanides										
Water	MB	Cyanide, Weak Acid Diss	WG670685-1		<0.0050	<0.005	mg/L	-	0.005	
Total Metals										
Water	CRM	Aluminum (Al)-Total	WG663806-3	VA-HIGH-WATRM	2.16	2.00	mg/L	108	90-110	
Water	CRM	Antimony (Sb)-Total	WG663806-3	VA-HIGH-WATRM	1.07	1.00	mg/L	107	90-110	
Water	CRM	Arsenic (As)-total	WG663806-3	VA-HIGH-WATRM	1.04	1.00	mg/L	104	90-110	
Water	CRM	Barium (Ba)-Total	WG663806-3	VA-HIGH-WATRM	0.257	0.250	mg/L	103	90-110	
Water	CRM	Beryllium (Be)-total	WG663806-3	VA-HIGH-WATRM	0.109	0.100	mg/L	109	90-110	
Water	CRM	Bismuth (Bi)-Total	WG663806-3	VA-HIGH-WATRM	1.03	1.00	mg/L	103	90-110	
Water	CRM	Boron (B)-total	WG663806-3	VA-HIGH-WATRM	1.07	1.00	mg/L	107	85-115	
Water	CRM	Cadmium (Cd)-Total	WG663806-3	VA-HIGH-WATRM	0.103	0.100	mg/L	103	90-110	
Water	CRM	Calcium (Ca)-Total	WG663806-3	VA-HIGH-WATRM	52.8	50.0	mg/L	106	85-115	
Water	CRM	Chromium (Cr)-Total	WG663806-3	VA-HIGH-WATRM	0.268	0.250	mg/L	107	90-110	
Water	CRM	Cobalt (Co)-Total	WG663806-3	VA-HIGH-WATRM	0.264	0.250	mg/L	106	90-110	
Water	CRM	Copper (Cu)-Total	WG663806-3	VA-HIGH-WATRM	0.254	0.250	mg/L	102	90-110	
Water	CRM	Iron (Fe)-Total	WG663806-3	VA-HIGH-WATRM	0.934	1.00	mg/L	93	90-110	
Water	CRM	Lead (Pb)-Total	WG663806-3	VA-HIGH-WATRM	0.536	0.500	mg/L	107	90-110	
Water	CRM	Lithium (Li)-Total	WG663806-3	VA-HIGH-WATRM	0.28	0.25	mg/L	111	90-110	
Water	CRM	Magnesium (Mg)-Total	WG663806-3	VA-HIGH-WATRM	53.5	50.0	mg/L	107	85-115	
Water	CRM	Manganese (Mn)-Total	WG663806-3	VA-HIGH-WATRM	0.262	0.250	mg/L	105	90-110	

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Water	CRM	Molybdenum (Mo)-Total	WG663806-3	VA-HIGH-WATRM	0.263	0.250	mg/L	105	90-110	
Water	CRM	Nickel (Ni)-Total	WG663806-3	VA-HIGH-WATRM	0.518	0.500	mg/L	104	90-110	
Water	CRM	Phosphorus (P)-Total	WG663806-3	VA-HIGH-WATRM	2.49	2.50	mg/L	100	90-110	
Water	CRM	Potassium (K)-Total	WG663806-3	VA-HIGH-WATRM	54.3	50.0	mg/L	109	85-115	
Water	CRM	Selenium (Se)-Total	WG663806-3	VA-HIGH-WATRM	1.01	1.00	mg/L	101	90-110	
Water	CRM	Silicon (Si)-Total	WG663806-3	VA-HIGH-WATRM	0.959	1.00	mg/L	96	90-110	
Water	CRM	Silver (Ag)-Total	WG663806-3	VA-HIGH-WATRM	0.104	0.100	mg/L	104	90-110	
Water	CRM	Sodium (Na)-Total	WG663806-3	VA-HIGH-WATRM	54.0	50.0	mg/L	108	85-115	
Water	CRM	Strontium (Sr)-Total	WG663806-3	VA-HIGH-WATRM	0.265	0.250	mg/L	106	90-110	
Water	CRM	Thallium (Tl)-Total	WG663806-3	VA-HIGH-WATRM	1.04	1.00	mg/L	104	85-115	
Water	CRM	Titanium (Ti)-Total	WG663806-3	VA-HIGH-WATRM	0.256	0.250	mg/L	102	90-110	
Water	CRM	Uranium (U)-Total	WG663806-3	VA-HIGH-WATRM	0.00552	0.00500	mg/L	110	90-110	
Water	CRM	Vanadium (V)-Total	WG663806-3	VA-HIGH-WATRM	0.537	0.500	mg/L	107	90-110	
Water	CRM	Zinc (Zn)-Total	WG663806-3	VA-HIGH-WATRM	0.539	0.500	mg/L	108	85-115	
Water	CRM	Iron (Fe)-Total	WG666544-5	VA-HIGH-WATRM	0.980	1.00	mg/L	98	90-110	
Water	CRM	Phosphorus (P)-Total	WG666544-5	VA-HIGH-WATRM	2.49	2.50	mg/L	100	90-110	
Water	CRM	Silicon (Si)-Total	WG666544-5	VA-HIGH-WATRM	0.948	1.00	mg/L	95	90-110	
Water	CRM	Titanium (Ti)-Total	WG666544-5	VA-HIGH-WATRM	0.262	0.250	mg/L	105	90-110	
Water	CRM	Mercury (Hg)-Dissolved	WG672917-2	VA-HG-WATRM	0.000088	0.000100	mg/L	88	88-112	
Water	CRM	Mercury (Hg)-Total	WG672917-2	VA-HG-WATRM	0.000088	0.000100	mg/L	88	88-112	
Water	MB	Aluminum (Al)-Total	WG663806-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Antimony (Sb)-Total	WG663806-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Arsenic (As)-total	WG663806-1		<0.000030	<0.00003	mg/L	-	0.00003	
Water	MB	Barium (Ba)-Total	WG663806-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Beryllium (Be)-total	WG663806-1		<0.00020	<0.0002	mg/L	-	0.0002	
Water	MB	Bismuth (Bi)-Total	WG663806-1		<0.00050	<0.0005	mg/L	-	0.0005	
Water	MB	Boron (B)-total	WG663806-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Cadmium (Cd)-Total	WG663806-1		<0.000017	<0.000017	mg/L	-	0.000017	
Water	MB	Calcium (Ca)-Total	WG663806-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Chromium (Cr)-Total	WG663806-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Cobalt (Co)-Total	WG663806-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Copper (Cu)-Total	WG663806-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Iron (Fe)-Total	WG663806-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Lead (Pb)-Total	WG663806-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Lithium (Li)-Total	WG663806-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Magnesium (Mg)-Total	WG663806-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Manganese (Mn)-Total	WG663806-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Molybdenum (Mo)-Total	WG663806-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Nickel (Ni)-Total	WG663806-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Phosphorus (P)-Total	WG663806-1		<0.30	<0.3	mg/L	-	0.3	
Water	MB	Potassium (K)-Total	WG663806-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Selenium (Se)-Total	WG663806-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Silicon (Si)-Total	WG663806-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Silver (Ag)-Total	WG663806-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Sodium (Na)-Total	WG663806-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Strontium (Sr)-Total	WG663806-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Thallium (Tl)-Total	WG663806-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Tin (Sn)-Total	WG663806-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Titanium (Ti)-Total	WG663806-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Uranium (U)-Total	WG663806-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Vanadium (V)-Total	WG663806-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Zinc (Zn)-Total	WG663806-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Aluminum (Al)-Total	WG666544-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Antimony (Sb)-Total	WG666544-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Arsenic (As)-total	WG666544-1		<0.000030	<0.00003	mg/L	-	0.00003	
Water	MB	Barium (Ba)-Total	WG666544-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Beryllium (Be)-total	WG666544-1		<0.00020	<0.0002	mg/L	-	0.0002	
Water	MB	Bismuth (Bi)-Total	WG666544-1		<0.00050	<0.0005	mg/L	-	0.0005	
Water	MB	Boron (B)-total	WG666544-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Cadmium (Cd)-Total	WG666544-1		<0.000017	<0.000017	mg/L	-	0.000017	
Water	MB	Calcium (Ca)-Total	WG666544-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Chromium (Cr)-Total	WG666544-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Cobalt (Co)-Total	WG666544-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Copper (Cu)-Total	WG666544-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Iron (Fe)-Total	WG666544-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Lead (Pb)-Total	WG666544-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Lithium (Li)-Total	WG666544-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Magnesium (Mg)-Total	WG666544-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Manganese (Mn)-Total	WG666544-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Molybdenum (Mo)-Total	WG666544-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Nickel (Ni)-Total	WG666544-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Phosphorus (P)-Total	WG666544-1		<0.30	<0.3	mg/L	-	0.3	
Water	MB	Potassium (K)-Total	WG666544-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Selenium (Se)-Total	WG666544-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Silicon (Si)-Total	WG666544-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Silver (Ag)-Total	WG666544-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Sodium (Na)-Total	WG666544-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Strontium (Sr)-Total	WG666544-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Thallium (Tl)-Total	WG666544-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Tin (Sn)-Total	WG666544-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Titanium (Ti)-Total	WG666544-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Uranium (U)-Total	WG666544-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Vanadium (V)-Total	WG666544-1		<0.000050	<0.00005	mg/L	-	0.00005	

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Water	MB	Zinc (Zn)-Total	WG666544-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Mercury (Hg)-Dissolved	WG672917-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Mercury (Hg)-Total	WG672917-1		<0.000010	<0.00001	mg/L	-	0.00001	
Dissolved Metals										
Water	CRM	Aluminum (Al)-Dissolved	WG666546-5	VA-HIGH-WATRM	2.14	2.00	mg/L	107	90-110	
Water	CRM	Antimony (Sb)-Dissolved	WG666546-5	VA-HIGH-WATRM	1.06	1.00	mg/L	106	90-110	
Water	CRM	Barium (Ba)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.266	0.250	mg/L	106	90-110	
Water	CRM	Beryllium (Be)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.102	0.100	mg/L	102	90-110	
Water	CRM	Bismuth (Bi)-Dissolved	WG666546-5	VA-HIGH-WATRM	1.01	1.00	mg/L	101	90-110	
Water	CRM	Cadmium (Cd)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.104	0.100	mg/L	104	90-110	
Water	CRM	Calcium (Ca)-Dissolved	WG666546-5	VA-HIGH-WATRM	52.1	50.0	mg/L	104	85-115	
Water	CRM	Chromium (Cr)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.261	0.250	mg/L	104	90-110	
Water	CRM	Cobalt (Co)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.261	0.250	mg/L	104	90-110	
Water	CRM	Copper (Cu)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.256	0.250	mg/L	102	90-110	
Water	CRM	Iron (Fe)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.985	1.00	mg/L	99	90-110	
Water	CRM	Lead (Pb)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.514	0.500	mg/L	103	90-110	
Water	CRM	Lithium (Li)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.24	0.25	mg/L	98	90-110	
Water	CRM	Magnesium (Mg)-Dissolved	WG666546-5	VA-HIGH-WATRM	48.1	50.0	mg/L	96	85-115	
Water	CRM	Manganese (Mn)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.257	0.250	mg/L	103	90-110	
Water	CRM	Molybdenum (Mo)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.273	0.250	mg/L	109	90-110	
Water	CRM	Phosphorus (P)-Dissolved	WG666546-5	VA-HIGH-WATRM	2.52	2.50	mg/L	101	90-110	
Water	CRM	Potassium (K)-Dissolved	WG666546-5	VA-HIGH-WATRM	52.6	50.0	mg/L	105	85-115	
Water	CRM	Selenium (Se)-Dissolved	WG666546-5	VA-HIGH-WATRM	1.08	1.00	mg/L	108	90-110	
Water	CRM	Silicon (Si)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.958	1.00	mg/L	96	90-110	
Water	CRM	Silver (Ag)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.104	0.100	mg/L	104	90-110	
Water	CRM	Strontium (Sr)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.262	0.250	mg/L	105	90-110	
Water	CRM	Thallium (Tl)-Dissolved	WG666546-5	VA-HIGH-WATRM	1.04	1.00	mg/L	104	85-115	
Water	CRM	Titanium (Ti)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.261	0.250	mg/L	104	90-110	
Water	CRM	Uranium (U)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.00522	0.00500	mg/L	104	90-110	
Water	CRM	Zinc (Zn)-Dissolved	WG666546-5	VA-HIGH-WATRM	0.532	0.500	mg/L	106	85-115	
Water	CRM	Mercury (Hg)-Dissolved	WG672917-2	VA-HG-WATRM	0.000088	0.000100	mg/L	88	88-112	
Water	CRM	Mercury (Hg)-Total	WG672917-2	VA-HG-WATRM	0.000088	0.000100	mg/L	88	88-112	
Water	MB	Aluminum (Al)-Dissolved	WG666546-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Antimony (Sb)-Dissolved	WG666546-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Arsenic (As)-Dissolved	WG666546-1		<0.000030	<0.00003	mg/L	-	0.00003	
Water	MB	Barium (Ba)-Dissolved	WG666546-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Beryllium (Be)-Dissolved	WG666546-1		<0.00020	<0.0002	mg/L	-	0.0002	
Water	MB	Bismuth (Bi)-Dissolved	WG666546-1		<0.00050	<0.0005	mg/L	-	0.0005	
Water	MB	Boron (B)-Dissolved	WG666546-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Cadmium (Cd)-Dissolved	WG666546-1		<0.000017	<0.000017	mg/L	-	0.000017	
Water	MB	Calcium (Ca)-Dissolved	WG666546-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Chromium (Cr)-Dissolved	WG666546-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Cobalt (Co)-Dissolved	WG666546-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Copper (Cu)-Dissolved	WG666546-1		<0.00030	<0.0003	mg/L	-	0.0003	
Water	MB	Iron (Fe)-Dissolved	WG666546-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Lead (Pb)-Dissolved	WG666546-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Lithium (Li)-Dissolved	WG666546-1		<0.00050	<0.0005	mg/L	-	0.0005	
Water	MB	Magnesium (Mg)-Dissolved	WG666546-1		<0.00050	<0.0005	mg/L	-	0.0005	
Water	MB	Manganese (Mn)-Dissolved	WG666546-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Molybdenum (Mo)-Dissolved	WG666546-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Nickel (Ni)-Dissolved	WG666546-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Phosphorus (P)-Dissolved	WG666546-1		<0.30	<0.3	mg/L	-	0.3	
Water	MB	Potassium (K)-Dissolved	WG666546-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Selenium (Se)-Dissolved	WG666546-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Silicon (Si)-Dissolved	WG666546-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Silver (Ag)-Dissolved	WG666546-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Sodium (Na)-Dissolved	WG666546-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Strontium (Sr)-Dissolved	WG666546-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Thallium (Tl)-Dissolved	WG666546-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Tin (Sn)-Dissolved	WG666546-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Titanium (Ti)-Dissolved	WG666546-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Uranium (U)-Dissolved	WG666546-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Vanadium (V)-Dissolved	WG666546-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Zinc (Zn)-Dissolved	WG666546-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Mercury (Hg)-Dissolved	WG672917-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Mercury (Hg)-Total	WG672917-1		<0.000010	<0.00001	mg/L	-	0.00001	
Organic Parameters										
Water	CRM	Total Organic Carbon	WG665634-5	VA-TOC-C-CAFFEINE	8.16	8.57	mg/L	95	85-115	
Water	MB	Total Organic Carbon	WG665634-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Dissolved Organic Carbon	WG665644-1		<0.50	<0.5	mg/L	-	0.5	

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Anions and Nutrients											
L557285-1	Water	WG668827-4	Ammonia as N	0.109	0.142	mg/L	-	-	0.033	0.08	J
Physical Tests											
L557031-1	Water	WG668764-2	Total Dissolved Solids	196	193	mg/L	1.5	39	-	-	-
L557031-1	Water	WG668752-2	Total Suspended Solids	9.2	9.7	mg/L	-	-	0.5	12	J
Dissolved Metals											
L557031-1	Water	WG666546-15	Aluminum (Al)-Dissolved	0.0020	0.0019	mg/L	-	-	0.0001	0.004	J
L557031-1	Water	WG666546-15	Antimony (Sb)-Dissolved	0.000067	0.000069	mg/L	-	-	0.000002	0.0002	J
L557031-1	Water	WG666546-15	Arsenic (As)-Dissolved	0.000888	0.000871	mg/L	1.9	39	-	-	-
L557031-1	Water	WG666546-15	Barium (Ba)-Dissolved	0.0293	0.0293	mg/L	0.0055	20	-	-	-
L557031-1	Water	WG666546-15	Beryllium (Be)-Dissolved	<0.00020	<0.00020	mg/L	N/A	20	-	-	RPD-NA
L557031-1	Water	WG666546-15	Bismuth (Bi)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L557031-1	Water	WG666546-15	Boron (B)-Dissolved	0.0145	0.0143	mg/L	1.3	39	-	-	-
L557031-1	Water	WG666546-15	Cadmium (Cd)-Dissolved	<0.000017	<0.000017	mg/L	N/A	20	-	-	RPD-NA
L557031-1	Water	WG666546-15	Calcium (Ca)-Dissolved	25.1	25.0	mg/L	0.52	20	-	-	-
L557031-1	Water	WG666546-15	Chromium (Cr)-Dissolved	0.00027	0.00031	mg/L	-	-	0.00004	0.0004	J
L557031-1	Water	WG666546-15	Cobalt (Co)-Dissolved	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L557031-1	Water	WG666546-15	Copper (Cu)-Dissolved	0.00051	0.00048	mg/L	-	-	0.00003	0.0004	J
L557031-1	Water	WG666546-15	Iron (Fe)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L557031-1	Water	WG666546-15	Lead (Pb)-Dissolved	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L557031-1	Water	WG666546-15	Lithium (Li)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L557031-1	Water	WG666546-15	Magnesium (Mg)-Dissolved	37.3	37.7	mg/L	0.91	20	-	-	-
L557031-1	Water	WG666546-15	Manganese (Mn)-Dissolved	0.000274	0.000287	mg/L	-	-	0.000013	0.0002	J
L557031-1	Water	WG666546-15	Molybdenum (Mo)-Dissolved	0.000228	0.000232	mg/L	-	-	0.000005	0.0002	J
L557031-1	Water	WG666546-15	Nickel (Ni)-Dissolved	0.00037	0.00041	mg/L	-	-	0.00004	0.0004	J
L557031-1	Water	WG666546-15	Phosphorus (P)-Dissolved	<0.30	<0.30	mg/L	N/A	20	-	-	RPD-NA
L557031-1	Water	WG666546-15	Potassium (K)-Dissolved	0.931	0.930	mg/L	0.070	20	-	-	-
L557031-1	Water	WG666546-15	Selenium (Se)-Dissolved	0.00014	0.00015	mg/L	-	-	0.00001	0.0004	J
L557031-1	Water	WG666546-15	Silicon (Si)-Dissolved	3.25	3.26	mg/L	0.29	20	-	-	-
L557031-1	Water	WG666546-15	Silver (Ag)-Dissolved	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L557031-1	Water	WG666546-15	Sodium (Na)-Dissolved	1.37	1.38	mg/L	0.85	39	-	-	-
L557031-1	Water	WG666546-15	Strontium (Sr)-Dissolved	0.0290	0.0291	mg/L	0.43	20	-	-	-
L557031-1	Water	WG666546-15	Thallium (Tl)-Dissolved	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L557031-1	Water	WG666546-15	Tin (Sn)-Dissolved	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L557031-1	Water	WG666546-15	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L557031-1	Water	WG666546-15	Uranium (U)-Dissolved	0.000499	0.000494	mg/L	0.85	20	-	-	-
L557031-1	Water	WG666546-15	Vanadium (V)-Dissolved	0.000627	0.000622	mg/L	0.89	20	-	-	-
L557031-1	Water	WG666546-15	Zinc (Zn)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Dissolved Metals											
L557029-1	Water	WG666546-14	Aluminum (Al)-Dissolved	0.0188	0.0179	mg/L	4.8	20	-	-	-
L557029-1	Water	WG666546-14	Antimony (Sb)-Dissolved	0.000054	0.000055	mg/L	-	-	0.000001	0.0002	J
L557029-1	Water	WG666546-14	Arsenic (As)-Dissolved	0.000741	0.000720	mg/L	2.8	39	-	-	-
L557029-1	Water	WG666546-14	Barium (Ba)-Dissolved	0.0223	0.0222	mg/L	0.44	20	-	-	-
L557029-1	Water	WG666546-14	Beryllium (Be)-Dissolved	<0.00020	<0.00020	mg/L	N/A	20	-	-	RPD-NA
L557029-1	Water	WG666546-14	Bismuth (Bi)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L557029-1	Water	WG666546-14	Boron (B)-Dissolved	0.0134	0.0136	mg/L	1.2	39	-	-	-
L557029-1	Water	WG666546-14	Cadmium (Cd)-Dissolved	<0.000017	<0.000017	mg/L	N/A	20	-	-	RPD-NA
L557029-1	Water	WG666546-14	Calcium (Ca)-Dissolved	21.8	21.5	mg/L	1.5	20	-	-	-
L557029-1	Water	WG666546-14	Chromium (Cr)-Dissolved	0.0041	0.0042	mg/L	-	-	0.00001	0.0004	J
L557029-1	Water	WG666546-14	Cobalt (Co)-Dissolved	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L557029-1	Water	WG666546-14	Copper (Cu)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L557029-1	Water	WG666546-14	Iron (Fe)-Dissolved	0.010	0.018	mg/L	-	-	0.007	0.04	J
L557029-1	Water	WG666546-14	Lead (Pb)-Dissolved	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L557029-1	Water	WG666546-14	Lithium (Li)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L557029-1	Water	WG666546-14	Magnesium (Mg)-Dissolved	34.9	34.6	mg/L	0.90	20	-	-	-
L557029-1	Water	WG666546-14	Manganese (Mn)-Dissolved	0.00143	0.00129	mg/L	9.9	20	-	-	-
L557029-1	Water	WG666546-14	Molybdenum (Mo)-Dissolved	0.000153	0.000146	mg/L	-	-	0.000007	0.0002	J
L557029-1	Water	WG666546-14	Nickel (Ni)-Dissolved	0.00027	0.00028	mg/L	-	-	0.00001	0.0004	J
L557029-1	Water	WG666546-14	Phosphorus (P)-Dissolved	<0.30	<0.30	mg/L	N/A	20	-	-	RPD-NA
L557029-1	Water	WG666546-14	Potassium (K)-Dissolved	0.819	0.808	mg/L	1.3	20	-	-	-
L557029-1	Water	WG666546-14	Selenium (Se)-Dissolved	0.00015	0.00010	mg/L	-	-	0.00005	0.0004	J
L557029-1	Water	WG666546-14	Silicon (Si)-Dissolved	2.87	2.93	mg/L	2.0	20	-	-	-
L557029-1	Water	WG666546-14	Silver (Ag)-Dissolved	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L557029-1	Water	WG666546-14	Sodium (Na)-Dissolved	1.46	1.45	mg/L	0.75	39	-	-	-
L557029-1	Water	WG666546-14	Strontium (Sr)-Dissolved	0.0263	0.0259	mg/L	1.7	20	-	-	-
L557029-1	Water	WG666546-14	Thallium (Tl)-Dissolved	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L557029-1	Water	WG666546-14	Tin (Sn)-Dissolved	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L557029-1	Water	WG666546-14	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L557029-1	Water	WG666546-14	Uranium (U)-Dissolved	0.000351	0.000350	mg/L	0.36	20	-	-	-
L557029-1	Water	WG666546-14	Vanadium (V)-Dissolved	0.000479	0.000461	mg/L	-	-	0.000017	0.0002	J
L557029-1	Water	WG666546-14	Zinc (Zn)-Dissolved	0.0014	<0.0010	mg/L	N/A	20	-	-	RPD-NA

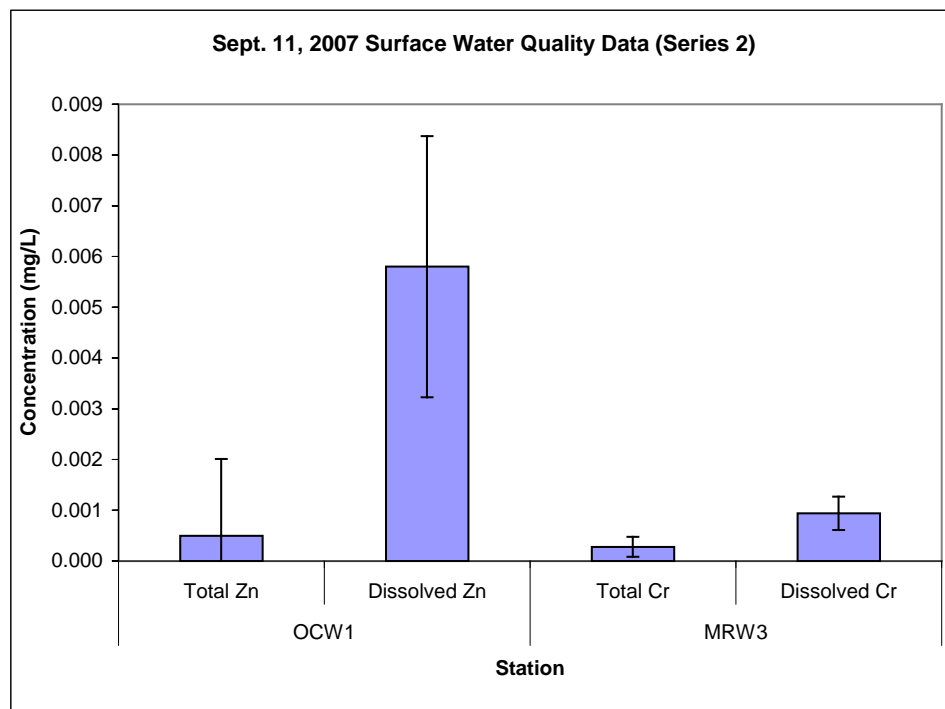
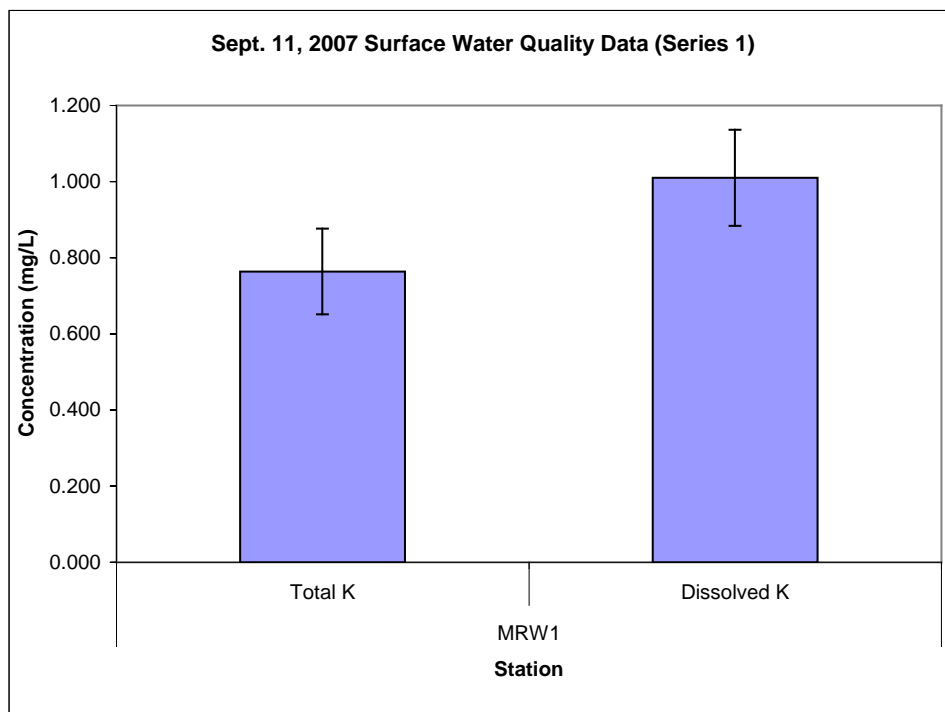
Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Physical Tests										
Water	CRM	pH	WG663574-6	VA-PH7-BUF	7.00	7.00	pH	7.00	6.97-7.03	
Water	CRM	Acidity (as CaCO3)	WG663574-7	VA-ACY-CONTROL	52.4	50.0	mg/L	105	85-115	
Water	MB	Turbidity	WG666258-1		<0.10	<0.1	NTU	-	0.1	
Water	MB	Total Dissolved Solids	WG671519-1		<3.0	<3	mg/L	-	3	
Water	MB	Total Suspended Solids	WG671529-1		<3.0	<3	mg/L	-	3	
Anions and Nutrients										
Water	CRM	pH	WG663574-6	VA-PH7-BUF	7.00	7.00	pH	7.00	6.97-7.03	
Water	CRM	Acidity (as CaCO3)	WG663574-7	VA-ACY-CONTROL	52.4	50.0	mg/L	105	85-115	
Water	CRM	Bromide (Br)	WG664177-2	VA-ALLT-170088	1.01	1.00	mg/L	101	90-110	
Water	CRM	Chloride (Cl)	WG664177-2	VA-ALLT-170088	50.9	50.1	mg/L	102	94-106	
Water	CRM	Fluoride (F)	WG664177-2	VA-ALLT-170088	1.03	1.00	mg/L	103	93-107	
Water	CRM	Sulfate (SO4)	WG664177-2	VA-ALLT-170088	51.3	50.1	mg/L	102	93-107	
Water	CRM	Nitrate (as N)	WG664177-2	VA-ALLT-170088	0.227	0.225	mg/L	101	91-109	
Water	CRM	Nitrite (as N)	WG664177-2	VA-ALLT-170088	0.154	0.152	mg/L	101	91-109	
Water	CRM	Total Kjeldahl Nitrogen	WG665872-2	VA-TKN-CSPK1	1.08	1.00	mg/L	108	85-115	
Water	CRM	Ammonia as N	WG668827-2	VA-SPXNUT-22-16	3.95	3.84	mg/L	103	86-114	
Water	CRM	Bromide (Br)	WG664177-10	VA-ALLT-170088	0.969	1.00	mg/L	97	90-110	
Water	CRM	Chloride (Cl)	WG664177-10	VA-ALLT-170088	50.8	50.1	mg/L	101	94-106	
Water	CRM	Fluoride (F)	WG664177-10	VA-ALLT-170088	1.03	1.00	mg/L	103	93-107	
Water	CRM	Sulfate (SO4)	WG664177-10	VA-ALLT-170088	51.2	50.1	mg/L	102	93-107	
Water	CRM	Nitrate (as N)	WG664177-10	VA-ALLT-170088	0.225	0.225	mg/L	100	91-109	
Water	CRM	Nitrite (as N)	WG664177-10	VA-ALLT-170088	0.155	0.152	mg/L	102	91-109	
Water	MB	Bromide (Br)	WG664177-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG664177-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG664177-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG664177-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG664177-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG664177-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG664177-4		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG664177-4		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG664177-4		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG664177-4		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG664177-4		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG664177-4		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG664177-6		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG664177-6		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG664177-6		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG664177-6		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG664177-6		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG664177-6		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG664177-8		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG664177-8		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG664177-8		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG664177-8		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG664177-8		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG664177-8		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG664177-9		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG664177-9		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG664177-9		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG664177-9		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG664177-9		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG664177-9		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Total Kjeldahl Nitrogen	WG665872-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Alkalinity, Total (as CaCO3)	WG668724-1		<2.0	<2	mg/L	-	2	
Water	MB	Ammonia as N	WG668827-1		<0.020	<0.02	mg/L	-	0.02	
Cyanides										
Water	MB	Cyanide, Weak Acid Diss	WG670958-1		<0.0050	<0.005	mg/L	-	0.005	
Total Metals										
Water	CRM	Iron (Fe)-Total	WG667372-2	VA-HIGH-WATRM	0.960	1.00	mg/L	96	90-110	
Water	CRM	Phosphorus (P)-Total	WG667372-2	VA-HIGH-WATRM	2.47	2.50	mg/L	99	90-110	
Water	CRM	Silicon (Si)-Total	WG667372-2	VA-HIGH-WATRM	0.985	1.00	mg/L	98	90-110	
Water	CRM	Titanium (Ti)-Total	WG667372-2	VA-HIGH-WATRM	0.261	0.250	mg/L	105	90-110	
Water	MB	Aluminum (Al)-Total	WG667372-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Antimony (Sb)-Total	WG667372-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Arsenic (As)-total	WG667372-1		<0.000030	<0.00003	mg/L	-	0.00003	
Water	MB	Barium (Ba)-Total	WG667372-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Beryllium (Be)-total	WG667372-1		<0.000020	<0.00002	mg/L	-	0.00002	
Water	MB	Bismuth (Bi)-Total	WG667372-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Boron (B)-total	WG667372-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Cadmium (Cd)-Total	WG667372-1		<0.000017	<0.000017	mg/L	-	0.000017	
Water	MB	Calcium (Ca)-Total	WG667372-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Chromium (Cr)-Total	WG667372-1		<0.00010	<0.0001	mg/L	-	0.0001	

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Water	MB	Cobalt (Co)-Total	WG667372-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Copper (Cu)-Total	WG667372-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Iron (Fe)-Total	WG667372-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Lead (Pb)-Total	WG667372-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Lithium (Li)-Total	WG667372-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Magnesium (Mg)-Total	WG667372-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Manganese (Mn)-Total	WG667372-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Molybdenum (Mo)-Total	WG667372-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Nickel (Ni)-Total	WG667372-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Phosphorus (P)-Total	WG667372-1		<0.30	<0.3	mg/L	-	0.3	
Water	MB	Potassium (K)-Total	WG667372-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Selenium (Se)-Total	WG667372-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Silicon (Si)-Total	WG667372-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Silver (Ag)-Total	WG667372-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Sodium (Na)-Total	WG667372-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Strontium (Sr)-Total	WG667372-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Thallium (Tl)-Total	WG667372-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Tin (Sn)-Total	WG667372-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Titanium (Ti)-Total	WG667372-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Uranium (U)-Total	WG667372-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Vanadium (V)-Total	WG667372-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Zinc (Zn)-Total	WG667372-1		<0.0010	<0.001	mg/L	-	0.001	
Dissolved Metals										
Water	CRM	Iron (Fe)-Dissolved	WG667382-4	VA-HIGH-WATRM	0.947	1.00	mg/L	95	90-110	
Water	CRM	Phosphorus (P)-Dissolved	WG667382-4	VA-HIGH-WATRM	2.49	2.50	mg/L	100	90-110	
Water	CRM	Silicon (Si)-Dissolved	WG667382-4	VA-HIGH-WATRM	0.976	1.00	mg/L	98	90-110	
Water	CRM	Titanium (Ti)-Dissolved	WG667382-4	VA-HIGH-WATRM	0.260	0.250	mg/L	104	90-110	
Water	MB	Aluminum (Al)-Dissolved	WG667382-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Antimony (Sb)-Dissolved	WG667382-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Arsenic (As)-Dissolved	WG667382-1		<0.000030	<0.00003	mg/L	-	0.00003	
Water	MB	Barium (Ba)-Dissolved	WG667382-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Beryllium (Be)-Dissolved	WG667382-1		<0.00020	<0.0002	mg/L	-	0.0002	
Water	MB	Bismuth (Bi)-Dissolved	WG667382-1		<0.00050	<0.0005	mg/L	-	0.0005	
Water	MB	Boron (B)-Dissolved	WG667382-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Cadmium (Cd)-Dissolved	WG667382-1		<0.000017	<0.000017	mg/L	-	0.000017	
Water	MB	Calcium (Ca)-Dissolved	WG667382-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Chromium (Cr)-Dissolved	WG667382-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Cobalt (Co)-Dissolved	WG667382-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Copper (Cu)-Dissolved	WG667382-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Iron (Fe)-Dissolved	WG667382-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Lead (Pb)-Dissolved	WG667382-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Lithium (Li)-Dissolved	WG667382-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Magnesium (Mg)-Dissolved	WG667382-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Manganese (Mn)-Dissolved	WG667382-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Mercury (Hg)-Dissolved	WG667382-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Molybdenum (Mo)-Dissolved	WG667382-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Nickel (Ni)-Dissolved	WG667382-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Phosphorus (P)-Dissolved	WG667382-1		<0.30	<0.3	mg/L	-	0.3	
Water	MB	Potassium (K)-Dissolved	WG667382-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Selenium (Se)-Dissolved	WG667382-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Silicon (Si)-Dissolved	WG667382-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Silver (Ag)-Dissolved	WG667382-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Sodium (Na)-Dissolved	WG667382-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Strontium (Sr)-Dissolved	WG667382-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Thallium (Tl)-Dissolved	WG667382-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Tin (Sn)-Dissolved	WG667382-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Titanium (Ti)-Dissolved	WG667382-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Uranium (U)-Dissolved	WG667382-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Vanadium (V)-Dissolved	WG667382-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Zinc (Zn)-Dissolved	WG667382-1		<0.0010	<0.001	mg/L	-	0.001	
Organic Parameters										
Water	CRM	Total Organic Carbon	WG665042-4	VA-TOC-C-CAFFEINE	7.71	8.57	mg/L	90	85-115	
Water	MB	Total Organic Carbon	WG665042-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Dissolved Organic Carbon	WG665050-1		<0.50	<0.5	mg/L	-	0.5	

Report to: Dr. David Mchaina Company: Victory Nickel Inc. Contact: #1802-80 Richmond Street Address: Toronto, Ont. M5H 1A4 Phone: (519) 241-9655 Fax: (416) 626-0890		Report Format / Distribution Regular Service (Default) Rush Service (2-3 Days) Priority Service (1 Day or ASAP) Emergency Service (<1 Day / Wkend) - Contact AL	
Invoice To: Company: same as above Contact: Address: Sample Phone:		Service Requested: Regular Service (Default) Rush Service (2-3 Days) Priority Service (1 Day or ASAP) Emergency Service (<1 Day / Wkend) - Contact AL	
Client / Project Information: Job #: Minago Project PO/AFE: Legal Site Description: Minago Project Quote #: ALS-EQ07-480		Analysis Request P P P P P 1 - General Parameters 2 - Radium-226 3 - Weak Acid Dissociable Cyanide 4 - Diss. Low Level Metals 5 - Total Low Level Metals 6 - Dissolved Organic Carbon 7 - Total Organic Carbon 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO	
ALS Lab Work Order # (lab use only) L557285 Sample Identification (This description will appear on the report) 1 HRW1 1 - General Parameters 1 HRW1 2 - Radium-226 1 HRW1 3 - Weak Acid Dissociable Cyanide 1 HRW1 4 - Diss. Low Level Metals 1 HRW1 5 - Total Low Level Metals 1 HRW1 6 - Dissolved Organic Carbon 1 HRW1 7 - Total Organic Carbon 1 HRW1 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2		Indicate Bottles: Filtered / Preserved (FP) → → Sampler (Initials): Karin Renken/Ken Bud Date: dd-mm-yy Time: hh:mm Sample Type: (Select from drop-down list) water water water water water water water	
Bryan Mark Contact:		Highly Contaminated? Hazardous? Number of Containers	
Guidelines / Regulations Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.			
Relinquished By:	Date & Time:	Received By:	Date & Time:
Relinquished By:	Date & Time:	Received By:	Date & Time:
Temperature		Sample Condition (lab use only)	
14		Samples Received in Good Condition? Y N (if no provided details)	

Karin Renken
Sept. 14, 2007

**Sept. 11, 2007 Minago Surface Water Quality Data
for which the measured Dissolved concentrations were higher than the Total concentrations**



APPENDIX L7.5-N

Certified Laboratory Reports for Surface Water Quality

October 2007 Results



Environmental Division

ANALYTICAL REPORT

VICTORY NICKEL INC.
ATTN: DR. DAVID MCHAINA
#1802 - 80 RICHMOND STREET
TORONTO ON M5H 1A4

Reported On: 20-NOV-07 12:13 PM
Revision: 1

Lab Work Order #: L569390

Date Received: 23-OCT-07

Project P.O. #:
Job Reference: MINAGO PROJECT
Legal Site Desc: MINAGO PROJECT
CofC Numbers:

Other Information:

Comments: For some of the submitted water samples, the measured concentration of specific dissolved parameters is greater than the corresponding total parameters concentration. The explanation for these findings is one or a combination of the following:

- laboratory method variability;
- field sampling method variability;
- bias introduced during general handling, storage, transportation and/or analysis of the sample;
- field sample grab bias - where separate grab samples are processed to produce total and dissolved samples;
- field sample split bias - where total and dissolved parameters samples are produced from the same grab sample.

For further clarification on any of the above information, please contact your ALS account manager.

Metals results for "Travel Blank" and "Equip Rinse Water" was confirmed by re-analysis.

Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Bryan Mark

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

20-NOV-07 12:11

	Sample ID Description Sampled Date Sampled Time Client ID	L569390-1	L569390-2	L569390-3	L569390-4	L569390-5
		15-OCT-07	16-OCT-07	16-OCT-07	13-OCT-07	13-OCT-07
		WRW1X	WRAOC	OCAWR	LSBBWR	WRALSB
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	102	168	89.6	128	120
	Conductivity (uS/cm)	202	324	181	247	236
	pH (pH)	7.71	8.21	8.02	7.90	8.12
	Total Dissolved Solids (mg/L)	140	182	139	154	150
	Total Suspended Solids (mg/L)	6.0	6.5	3.5	6.5	7.5
	Turbidity (NTU)	7.16	5.21	7.23	6.78	6.46
Anions and Nutrients	Ammonia as N (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
	Acidity (as CaCO ₃) (mg/L)	4.8	1.2	2.3	3.1	2.0
	Alkalinity, Bicarbonate (as CaCO ₃) (mg/L)	111	184	98.3	140	130
	Alkalinity, Carbonate (as CaCO ₃) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Alkalinity, Hydroxide (as CaCO ₃) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Alkalinity, Total (as CaCO ₃) (mg/L)	111	184	98.3	140	130
	Bromide (Br) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Chloride (Cl) (mg/L)	1.53	1.47	1.55	1.44	1.34
	Fluoride (F) (mg/L)	0.060	0.093	0.053	0.073	0.069
	Sulfate (SO ₄) (mg/L)	0.87	2.57	0.55	1.57	1.41
	Nitrate (as N) (mg/L)	0.86	0.94	0.90	0.92	0.80
	Nitrite (as N) (mg/L)	<0.10	<0.10	<0.10	0.14	0.13
	Total Kjeldahl Nitrogen (mg/L)	0.520	0.466	0.547	0.534	0.543
	Total Nitrogen (mg/L)	0.520	0.466	0.547	0.534	0.543
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Metals	Aluminum (Al)-Total (mg/L)	0.231	0.154	0.173	0.175	0.133
	Antimony (Sb)-Total (mg/L)	0.000051	<0.000050	<0.000050	<0.000050	<0.000050
	Arsenic (As)-total (mg/L)	0.000600	0.000557	0.000616	0.000629	0.000629
	Barium (Ba)-Total (mg/L)	0.0126	0.0232	0.00990	0.0158	0.0149
	Beryllium (Be)-total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-total (mg/L)	0.0054	0.0122	0.0044	0.0082	0.0078
	Cadmium (Cd)-Total (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017
	Calcium (Ca)-Total (mg/L)	21.0	25.1	19.8	22.1	20.8
	Chromium (Cr)-Total (mg/L)	0.00044	0.00034	0.00037	0.00046	0.00040
	Cobalt (Co)-Total (mg/L)	0.00012	<0.00010	0.00012	0.00011	0.00012
	Copper (Cu)-Total (mg/L)	0.00046	0.00036	0.00037	0.00045	0.00048
	Iron (Fe)-Total (mg/L)	0.268	0.213	0.236	0.232	0.287
	Lead (Pb)-Total (mg/L)	0.000125	0.000095	0.000107	0.000123	0.000137
	Lithium (Li)-Total (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Total (mg/L)	12.6	26.2	10.1	18.1	16.6
	Manganese (Mn)-Total (mg/L)	0.0145	0.00787	0.0148	0.0130	0.0158
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L569390-6 14-OCT-07 MRW1	L569390-7 14-OCT-07 OCW1	L569390-8 14-OCT-07 HRW1	L569390-9 17-OCT-07 ORAMLC	L569390-10 17-OCT-07 ORBMLC
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	153	156	79.0	Not at Minago	Not at Minago
	Conductivity (uS/cm)	317	307	156		
	pH (pH)	8.18	8.18	8.04		
	Total Dissolved Solids (mg/L)	198	186	121		
	Total Suspended Solids (mg/L)	3.0	<3.0	13.5		
	Turbidity (NTU)	2.71	0.49	15.8		
Anions and Nutrients	Ammonia as N (mg/L)	<0.020	<0.020	0.021		
	Acidity (as CaCO ₃) (mg/L)	1.6	1.6	1.7		
	Alkalinity, Bicarbonate (as CaCO ₃) (mg/L)	172	168	81.2		
	Alkalinity, Carbonate (as CaCO ₃) (mg/L)	<2.0	<2.0	<2.0		
	Alkalinity, Hydroxide (as CaCO ₃) (mg/L)	<2.0	<2.0	<2.0		
	Alkalinity, Total (as CaCO ₃) (mg/L)	172	168	81.2		
	Bromide (Br) (mg/L)	<0.050	<0.050	<0.050		
	Chloride (Cl) (mg/L)	1.97	1.05	1.12		
	Fluoride (F) (mg/L)	0.076	0.069	0.051		
	Sulfate (SO ₄) (mg/L)	1.33	1.57	<0.50		
	Nitrate (as N) (mg/L)	0.89	0.85	1.07		
	Nitrite (as N) (mg/L)	0.13	0.13	<0.10		
	Total Kjeldahl Nitrogen (mg/L)	0.592	0.371	0.633		
	Total Nitrogen (mg/L)	0.592	0.371	0.633		
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	<0.0050		
Total Metals	Aluminum (Al)-Total (mg/L)	0.0545	0.0087	0.333		
	Antimony (Sb)-Total (mg/L)	<0.000050	<0.000050	<0.000050		
	Arsenic (As)-total (mg/L)	0.000706	0.000336	0.000797		
	Barium (Ba)-Total (mg/L)	0.0149	0.0176	0.0100		
	Beryllium (Be)-total (mg/L)	<0.00020	<0.00020	<0.00020		
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050		
	Boron (B)-total (mg/L)	0.0128	0.0049	0.0061		
	Cadmium (Cd)-Total (mg/L)	<0.000017	<0.000017	<0.000017		
	Calcium (Ca)-Total (mg/L)	34.6	33.5	19.9		
	Chromium (Cr)-Total (mg/L)	0.00045	0.00035	0.00082		
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	0.00022		
	Copper (Cu)-Total (mg/L)	0.00046	0.00013	0.00079		
	Iron (Fe)-Total (mg/L)	0.120	0.047	0.514		
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050	0.000219		
	Lithium (Li)-Total (mg/L)	<0.0050	<0.0050	<0.0050		
	Magnesium (Mg)-Total (mg/L)	16.4	17.9	8.07		
	Manganese (Mn)-Total (mg/L)	0.00634	0.00564	0.0258		
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010			

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L569390-11	L569390-12	L569390-13	L569390-14	L569390-15
		17-OCT-07	17-OCT-07	17-OCT-07	17-OCT-07	17-OCT-07
		MCAOR	ORAHLC	ORBHLC	HLCAOR	ML-1
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L) Conductivity (uS/cm) pH (pH) Total Dissolved Solids (mg/L) Total Suspended Solids (mg/L) Turbidity (NTU)	Not at Minago	Not at Minago	Not at Minago	Not at Minago	Not at Minago
Anions and Nutrients	Ammonia as N (mg/L) Acidity (as CaCO3) (mg/L) Alkalinity, Bicarbonate (as CaCO3) (mg/L) Alkalinity, Carbonate (as CaCO3) (mg/L) Alkalinity, Hydroxide (as CaCO3) (mg/L) Alkalinity, Total (as CaCO3) (mg/L) Bromide (Br) (mg/L) Chloride (Cl) (mg/L) Fluoride (F) (mg/L) Sulfate (SO4) (mg/L) Nitrate (as N) (mg/L) Nitrite (as N) (mg/L) Total Kjeldahl Nitrogen (mg/L) Total Nitrogen (mg/L)					
Cyanides	Cyanide, Weak Acid Diss (mg/L)					
Total Metals	Aluminum (Al)-Total (mg/L) Antimony (Sb)-Total (mg/L) Arsenic (As)-total (mg/L) Barium (Ba)-Total (mg/L) Beryllium (Be)-total (mg/L) Bismuth (Bi)-Total (mg/L) Boron (B)-total (mg/L) Cadmium (Cd)-Total (mg/L) Calcium (Ca)-Total (mg/L) Chromium (Cr)-Total (mg/L) Cobalt (Co)-Total (mg/L) Copper (Cu)-Total (mg/L) Iron (Fe)-Total (mg/L) Lead (Pb)-Total (mg/L) Lithium (Li)-Total (mg/L) Magnesium (Mg)-Total (mg/L) Manganese (Mn)-Total (mg/L) Mercury (Hg)-Total (mg/L)					

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L569390-16 17-OCT-07 MLUC2	L569390-17 17-OCT-07 UCAOR	L569390-18 16-OCT-07 OCW3	L569390-19 16-OCT-07 OCW2	L569390-20 16-OCT-07 MRW2X
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	Not at Minago	Not at Minago	146	169	176
	Conductivity (uS/cm)			285	327	344
	pH (pH)			8.11	8.15	8.24
	Total Dissolved Solids (mg/L)			173	199	205
	Total Suspended Solids (mg/L)			<3.0	3.5	4.0
	Turbidity (NTU)			0.37	1.08	3.11
Anions and Nutrients	Ammonia as N (mg/L)			<0.020	<0.020	<0.020
	Acidity (as CaCO ₃) (mg/L)			2.0	1.7	<1.0
	Alkalinity, Bicarbonate (as CaCO ₃) (mg/L)			161	186	195
	Alkalinity, Carbonate (as CaCO ₃) (mg/L)			<2.0	<2.0	<2.0
	Alkalinity, Hydroxide (as CaCO ₃) (mg/L)			<2.0	<2.0	<2.0
	Alkalinity, Total (as CaCO ₃) (mg/L)			161	186	195
	Bromide (Br) (mg/L)			<0.050	<0.050	<0.050
	Chloride (Cl) (mg/L)			0.69	0.78	1.50
	Fluoride (F) (mg/L)			0.059	0.072	0.080
	Sulfate (SO ₄) (mg/L)			1.05	2.00	1.28
	Nitrate (as N) (mg/L)			1.21	1.06	1.35
	Nitrite (as N) (mg/L)			0.23	0.28	0.25
	Total Kjeldahl Nitrogen (mg/L)			0.320	0.331	0.462
	Total Nitrogen (mg/L)			0.320	0.331	0.462
Cyanides	Cyanide, Weak Acid Diss (mg/L)			<0.0050	<0.0050	<0.0050
Total Metals	Aluminum (Al)-Total (mg/L)			0.0019	0.0054	0.0590
	Antimony (Sb)-Total (mg/L)			<0.000050	<0.000050	<0.000050
	Arsenic (As)-total (mg/L)			0.000270	0.000280	0.000512
	Barium (Ba)-Total (mg/L)			0.0136	0.0187	0.0212
	Beryllium (Be)-total (mg/L)			<0.00020	<0.00020	<0.00020
	Bismuth (Bi)-Total (mg/L)			<0.00050	<0.00050	<0.00050
	Boron (B)-total (mg/L)			0.0045	0.0054	0.0115
	Cadmium (Cd)-Total (mg/L)			<0.000017	<0.000017	<0.000017
	Calcium (Ca)-Total (mg/L)			31.1	35.7	37.2
	Chromium (Cr)-Total (mg/L)			0.00025	0.00017	0.00038
	Cobalt (Co)-Total (mg/L)			<0.00010	<0.00010	<0.00010
	Copper (Cu)-Total (mg/L)			<0.00010	<0.00010	0.00028
	Iron (Fe)-Total (mg/L)			0.046	0.066	0.140
	Lead (Pb)-Total (mg/L)			<0.000050	<0.000050	<0.000050
	Lithium (Li)-Total (mg/L)			<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Total (mg/L)			16.5	19.5	19.9
	Manganese (Mn)-Total (mg/L)			0.00290	0.00862	0.00811
	Mercury (Hg)-Total (mg/L)			<0.000010	<0.000010	

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		Sample ID	L569390-21	L569390-22	L569390-23
		Description			
		Sampled Date	16-OCT-07		
		Sampled Time			
		Client ID	MRW3	TRAVEL BLANK	EQUIP RINSE WATER
Grouping	Analyte				
WATER					
Physical Tests	Hardness (as CaCO3) (mg/L)	154	<0.50	<0.50	
	Conductivity (uS/cm)	315			
	pH (pH)	8.23			
	Total Dissolved Solids (mg/L)	207			
	Total Suspended Solids (mg/L)	3.0			
	Turbidity (NTU)	2.33			
Anions and Nutrients	Ammonia as N (mg/L)	0.025			
	Acidity (as CaCO3) (mg/L)	1.2			
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	176			
	Alkalinity, Carbonate (as CaCO3) (mg/L)	<2.0			
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	<2.0			
	Alkalinity, Total (as CaCO3) (mg/L)	176			
	Bromide (Br) (mg/L)	<0.050			
	Chloride (Cl) (mg/L)	2.07			
	Fluoride (F) (mg/L)	0.074			
	Sulfate (SO4) (mg/L)	1.41			
	Nitrate (as N) (mg/L)	1.28			
	Nitrite (as N) (mg/L)	0.25			
	Total Kjeldahl Nitrogen (mg/L)	0.662			
	Total Nitrogen (mg/L)	0.662			
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050			
Total Metals	Aluminum (Al)-Total (mg/L)	0.0475	<0.0010	<0.0010	
	Antimony (Sb)-Total (mg/L)	<0.000050	<0.000050	0.000698	
	Arsenic (As)-total (mg/L)	0.000691	<0.000030	<0.000030	
	Barium (Ba)-Total (mg/L)	0.0129	<0.000050	<0.000050	
	Beryllium (Be)-total (mg/L)	<0.00020	<0.00020	<0.00020	
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	
	Boron (B)-total (mg/L)	0.0126	<0.0010	<0.0010	
	Cadmium (Cd)-Total (mg/L)	<0.000017	<0.000017	<0.000017	
	Calcium (Ca)-Total (mg/L)	35.3	0.182	<0.020	
	Chromium (Cr)-Total (mg/L)	0.00041	<0.00010	<0.00010	
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	<0.00010	
	Copper (Cu)-Total (mg/L)	0.00044	<0.00010	<0.00010	
	Iron (Fe)-Total (mg/L)	0.093	<0.010	<0.010	
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050	<0.000050	
	Lithium (Li)-Total (mg/L)	<0.0050	<0.0050	<0.0050	
	Magnesium (Mg)-Total (mg/L)	16.3	<0.0050	<0.0050	
	Manganese (Mn)-Total (mg/L)	0.0109	0.000104	<0.000050	
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	

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Sample ID Description Sampled Date Sampled Time Client ID		L569390-1	L569390-2	L569390-3	L569390-4	L569390-5
		15-OCT-07	16-OCT-07	16-OCT-07	13-OCT-07	13-OCT-07
		WRW1X	WRAOC	OCAWR	LSBBWR	WRALSB
Grouping	Analyte					
WATER						
Total Metals	Molybdenum (Mo)-Total (mg/L)	<0.000050	0.000109	<0.000050	0.000063	0.000068
	Nickel (Ni)-Total (mg/L)	0.00045	0.00030	0.00040	0.00044	0.00040
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)	0.757	0.955	0.693	0.829	0.751
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Silicon (Si)-Total (mg/L)	4.79	3.87	4.91	4.28	4.31
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	3.01	2.17	3.16	2.54	2.49
	Strontium (Sr)-Total (mg/L)	0.0304	0.0309	0.0301	0.0290	0.0276
	Thallium (Tl)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	0.013	0.016	0.010	0.012	0.012
	Uranium (U)-Total (mg/L)	0.000118	0.000268	0.000081	0.000167	0.000161
	Vanadium (V)-Total (mg/L)	0.000606	0.000549	0.000449	0.000547	0.000477
	Zinc (Zn)-Total (mg/L)	0.0015	<0.0010	0.0017	0.0019	0.0015
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0380	0.0029	0.0326	0.0083	0.0196
	Antimony (Sb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Arsenic (As)-Dissolved (mg/L)	0.000598	0.000571	0.000593	0.000602	0.000602
	Barium (Ba)-Dissolved (mg/L)	0.0108	0.0217	0.00890	0.0142	0.0136
	Beryllium (Be)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	0.0058	0.0124	0.0044	0.0081	0.0077
	Cadmium (Cd)-Dissolved (mg/L)	0.000020	<0.000017	<0.000017	0.000035	<0.000017
	Calcium (Ca)-Dissolved (mg/L)	20.4	24.7	19.5	21.9	20.7
	Chromium (Cr)-Dissolved (mg/L)	0.00030	0.00043	0.00025	0.00031	0.00034
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00030	0.00028	0.00037	0.00036	0.00036
	Iron (Fe)-Dissolved (mg/L)	0.086	0.026	0.083	0.054	0.129
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Dissolved (mg/L)	12.4	25.8	9.91	17.9	16.5
	Manganese (Mn)-Dissolved (mg/L)	0.00841	0.00413	0.00872	0.00851	0.0120
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	<0.000050	0.000101	<0.000050	0.000069	0.000067
	Nickel (Ni)-Dissolved (mg/L)	0.00022	0.00013	0.00026	0.00018	0.00022
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	0.705	0.901	0.671	0.776	0.712
	Selenium (Se)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Silicon (Si)-Dissolved (mg/L)	4.52	3.02	4.64	3.79	3.84

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L569390-6	L569390-7	L569390-8	L569390-9	L569390-10
		Description					
		Sampled Date	14-OCT-07	14-OCT-07	14-OCT-07	17-OCT-07	17-OCT-07
		Sampled Time					
		Client ID	MRW1	OCW1	HRW1	ORAMLC	ORBMLC
Grouping	Analyte						
WATER							
Total Metals	Molybdenum (Mo)-Total (mg/L)	0.000079	0.000071	<0.000050	Not at Minago	Not at Minago	
	Nickel (Ni)-Total (mg/L)	0.00040	0.00011	0.00090			
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30			
	Potassium (K)-Total (mg/L)	1.29	0.721	0.907			
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00010	<0.00010			
	Silicon (Si)-Total (mg/L)	5.04	4.14	4.84			
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010			
	Sodium (Na)-Total (mg/L)	5.64	2.14	3.16			
	Strontium (Sr)-Total (mg/L)	0.0582	0.0356	0.0345			
	Thallium (Tl)-Total (mg/L)	<0.000050	<0.000050	<0.000050			
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010			
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	0.019			
	Uranium (U)-Total (mg/L)	0.000152	0.000152	0.000062			
	Vanadium (V)-Total (mg/L)	0.000373	0.000088	0.000971			
	Zinc (Zn)-Total (mg/L)	<0.0010	<0.0010	0.0021			
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0052	0.0020	0.0488			
	Antimony (Sb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050			
	Arsenic (As)-Dissolved (mg/L)	0.000691	0.000343	0.000714			
	Barium (Ba)-Dissolved (mg/L)	0.0144	0.0174	0.00721			
	Beryllium (Be)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020			
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050			
	Boron (B)-Dissolved (mg/L)	0.0124	0.0050	0.0063			
	Cadmium (Cd)-Dissolved (mg/L)	<0.000017	<0.000017	<0.000017			
	Calcium (Ca)-Dissolved (mg/L)	34.5	33.4	19.0			
	Chromium (Cr)-Dissolved (mg/L)	0.00035	0.00037	0.00029			
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010			
	Copper (Cu)-Dissolved (mg/L)	0.00049	0.00015	0.00057			
	Iron (Fe)-Dissolved (mg/L)	0.032	0.034	0.150			
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	0.000051			
	Lithium (Li)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050			
	Magnesium (Mg)-Dissolved (mg/L)	16.1	17.8	7.66			
	Manganese (Mn)-Dissolved (mg/L)	0.00318	0.00433	0.0135			
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010				
	Molybdenum (Mo)-Dissolved (mg/L)	0.000086	0.000065	<0.000050			
	Nickel (Ni)-Dissolved (mg/L)	0.00039	0.00015	0.00041			
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30			
	Potassium (K)-Dissolved (mg/L)	1.28	0.719	0.788			
	Selenium (Se)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010			
	Silicon (Si)-Dissolved (mg/L)	4.76	4.04	4.14			

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L569390-11	L569390-12	L569390-13	L569390-14	L569390-15
		Description					
		Sampled Date	17-OCT-07	17-OCT-07	17-OCT-07	17-OCT-07	17-OCT-07
		Sampled Time					
		Client ID	MCAOR	ORAHLC	ORBHLC	HLCAOR	ML-1
Grouping	Analyte						
WATER							
Total Metals	Molybdenum (Mo)-Total (mg/L)	Not at Minago	Not at Minago	Not at Minago	Not at Minago	Not at Minago	Not at Minago
	Nickel (Ni)-Total (mg/L)						
	Phosphorus (P)-Total (mg/L)						
	Potassium (K)-Total (mg/L)						
	Selenium (Se)-Total (mg/L)						
	Silicon (Si)-Total (mg/L)						
	Silver (Ag)-Total (mg/L)						
	Sodium (Na)-Total (mg/L)						
	Strontium (Sr)-Total (mg/L)						
	Thallium (Tl)-Total (mg/L)						
	Tin (Sn)-Total (mg/L)						
	Titanium (Ti)-Total (mg/L)						
	Uranium (U)-Total (mg/L)						
	Vanadium (V)-Total (mg/L)						
	Zinc (Zn)-Total (mg/L)						
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)						
	Antimony (Sb)-Dissolved (mg/L)						
	Arsenic (As)-Dissolved (mg/L)						
	Barium (Ba)-Dissolved (mg/L)						
	Beryllium (Be)-Dissolved (mg/L)						
	Bismuth (Bi)-Dissolved (mg/L)						
	Boron (B)-Dissolved (mg/L)						
	Cadmium (Cd)-Dissolved (mg/L)						
	Calcium (Ca)-Dissolved (mg/L)						
	Chromium (Cr)-Dissolved (mg/L)						
	Cobalt (Co)-Dissolved (mg/L)						
	Copper (Cu)-Dissolved (mg/L)						
	Iron (Fe)-Dissolved (mg/L)						
	Lead (Pb)-Dissolved (mg/L)						
	Lithium (Li)-Dissolved (mg/L)						
	Magnesium (Mg)-Dissolved (mg/L)						
	Manganese (Mn)-Dissolved (mg/L)						
	Mercury (Hg)-Dissolved (mg/L)						
	Molybdenum (Mo)-Dissolved (mg/L)						
	Nickel (Ni)-Dissolved (mg/L)						
	Phosphorus (P)-Dissolved (mg/L)						
	Potassium (K)-Dissolved (mg/L)						
	Selenium (Se)-Dissolved (mg/L)						
	Silicon (Si)-Dissolved (mg/L)						

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L569390-16	L569390-17	L569390-18	L569390-19	L569390-20
		Description					
		Sampled Date	17-OCT-07	17-OCT-07	16-OCT-07	16-OCT-07	16-OCT-07
		Sampled Time					
		Client ID	MLUC2	UCAOR	OCW3	OCW2	MRW2X
Grouping	Analyte						
WATER							
Total Metals	Molybdenum (Mo)-Total (mg/L)	Not at Minago	Not at Minago	<0.000050	0.000075	0.000107	
	Nickel (Ni)-Total (mg/L)			<0.00010	<0.00010	0.00027	
	Phosphorus (P)-Total (mg/L)			<0.30	<0.30	<0.30	
	Potassium (K)-Total (mg/L)			0.707	0.756	1.17	
	Selenium (Se)-Total (mg/L)			<0.00010	<0.00010	<0.00010	
	Silicon (Si)-Total (mg/L)			3.89	4.11	4.80	
	Silver (Ag)-Total (mg/L)			<0.000010	<0.000010	<0.000010	
	Sodium (Na)-Total (mg/L)			1.68	2.12	3.55	
	Strontium (Sr)-Total (mg/L)			0.0319	0.0372	0.0520	
	Thallium (Tl)-Total (mg/L)			<0.000050	<0.000050	<0.000050	
	Tin (Sn)-Total (mg/L)			<0.00010	<0.00010	<0.00010	
	Titanium (Ti)-Total (mg/L)			<0.010	<0.010	<0.010	
	Uranium (U)-Total (mg/L)			0.000032	0.000188	0.000158	
	Vanadium (V)-Total (mg/L)			<0.000050	0.000056	0.000365	
	Zinc (Zn)-Total (mg/L)			<0.0010	<0.0010	<0.0010	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)			0.0015	0.0012	0.0046	
	Antimony (Sb)-Dissolved (mg/L)			<0.000050	<0.000050	<0.000050	
	Arsenic (As)-Dissolved (mg/L)			0.000254	0.000291	0.000497	
	Barium (Ba)-Dissolved (mg/L)			0.0134	0.0186	0.0205	
	Beryllium (Be)-Dissolved (mg/L)			<0.00020	<0.00020	<0.00020	
	Bismuth (Bi)-Dissolved (mg/L)			<0.00050	<0.00050	<0.00050	
	Boron (B)-Dissolved (mg/L)			0.0043	0.0053	0.0109	
	Cadmium (Cd)-Dissolved (mg/L)			<0.000017	<0.000017	<0.000017	
	Calcium (Ca)-Dissolved (mg/L)			31.3	36.0	37.8	
	Chromium (Cr)-Dissolved (mg/L)			0.00024	0.00035	0.00035	
	Cobalt (Co)-Dissolved (mg/L)			<0.00010	<0.00010	<0.00010	
	Copper (Cu)-Dissolved (mg/L)			<0.00010	<0.00010	0.00028	
	Iron (Fe)-Dissolved (mg/L)			0.033	0.038	0.047	
	Lead (Pb)-Dissolved (mg/L)			<0.000050	<0.000050	<0.000050	
	Lithium (Li)-Dissolved (mg/L)			<0.0050	<0.0050	<0.0050	
	Magnesium (Mg)-Dissolved (mg/L)			16.5	19.2	19.8	
	Manganese (Mn)-Dissolved (mg/L)			0.00248	0.00519	0.00550	
	Mercury (Hg)-Dissolved (mg/L)			<0.000010	<0.000010		
	Molybdenum (Mo)-Dissolved (mg/L)			<0.000050	0.000092	0.000104	
	Nickel (Ni)-Dissolved (mg/L)			<0.00010	0.00010	0.00019	
	Phosphorus (P)-Dissolved (mg/L)			<0.30	<0.30	<0.30	
	Potassium (K)-Dissolved (mg/L)			0.700	0.755	1.16	
	Selenium (Se)-Dissolved (mg/L)			<0.00010	<0.00010	<0.00010	
	Silicon (Si)-Dissolved (mg/L)			3.84	3.93	4.55	

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L569390-21	L569390-22	L569390-23
		Description			
		Sampled Date	16-OCT-07		
		Sampled Time			
		Client ID	MRW3	TRAVEL BLANK	EQUIP RINSE WATER
Grouping	Analyte				
WATER					
Total Metals	Molybdenum (Mo)-Total (mg/L)	0.000065	<0.000050	<0.000050	
	Nickel (Ni)-Total (mg/L)	0.00038	<0.00010	<0.00010	
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	
	Potassium (K)-Total (mg/L)	1.29	<0.050	<0.050	
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00010	<0.00010	
	Silicon (Si)-Total (mg/L)	4.91	<0.050	<0.050	
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	
	Sodium (Na)-Total (mg/L)	5.60	<0.010	<0.010	
	Strontium (Sr)-Total (mg/L)	0.0628	0.00012	<0.00010	
	Thallium (Tl)-Total (mg/L)	<0.000050	<0.000050	<0.000050	
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	<0.010	
	Uranium (U)-Total (mg/L)	0.000138	<0.000010	<0.000010	
	Vanadium (V)-Total (mg/L)	0.000328	<0.000050	<0.000050	
	Zinc (Zn)-Total (mg/L)	<0.0010	<0.0010	<0.0010	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0044			
	Antimony (Sb)-Dissolved (mg/L)	<0.000050			
	Arsenic (As)-Dissolved (mg/L)	0.000691			
	Barium (Ba)-Dissolved (mg/L)	0.0127			
	Beryllium (Be)-Dissolved (mg/L)	<0.00020			
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050			
	Boron (B)-Dissolved (mg/L)	0.0125			
	Cadmium (Cd)-Dissolved (mg/L)	<0.000017			
	Calcium (Ca)-Dissolved (mg/L)	34.8			
	Chromium (Cr)-Dissolved (mg/L)	0.00039			
	Cobalt (Co)-Dissolved (mg/L)	<0.00010			
	Copper (Cu)-Dissolved (mg/L)	0.00042			
	Iron (Fe)-Dissolved (mg/L)	0.030			
	Lead (Pb)-Dissolved (mg/L)	<0.000050			
	Lithium (Li)-Dissolved (mg/L)	<0.0050			
	Magnesium (Mg)-Dissolved (mg/L)	16.3			
	Manganese (Mn)-Dissolved (mg/L)	0.00370			
	Mercury (Hg)-Dissolved (mg/L)	<0.000010			
	Molybdenum (Mo)-Dissolved (mg/L)	0.000091			
	Nickel (Ni)-Dissolved (mg/L)	0.00036			
	Phosphorus (P)-Dissolved (mg/L)	<0.30			
	Potassium (K)-Dissolved (mg/L)	1.28			
	Selenium (Se)-Dissolved (mg/L)	<0.00010			
	Silicon (Si)-Dissolved (mg/L)	4.74			

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L569390-1	L569390-2	L569390-3	L569390-4	L569390-5
		Description					
		Sampled Date	15-OCT-07	16-OCT-07	16-OCT-07	13-OCT-07	13-OCT-07
		Sampled Time					
		Client ID	WRW1X	WRAOC	OCAWR	LSBBWR	WRALSB
Grouping	Analyte						
WATER							
Dissolved Metals	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	2.96	2.17	3.17	2.54	2.49	
	Strontium (Sr)-Dissolved (mg/L)	0.0295	0.0304	0.0298	0.0286	0.0274	
	Thallium (Tl)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.000108	0.000250	0.000083	0.000169	0.000161	
	Vanadium (V)-Dissolved (mg/L)	0.000236	0.000249	0.000214	0.000222	0.000245	
	Zinc (Zn)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	
Organic Parameters	Dissolved Organic Carbon (mg/L)						
	Total Organic Carbon (mg/L)						

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L569390-6	L569390-7	L569390-8	L569390-9	L569390-10
		Description					
		Sampled Date	14-OCT-07	14-OCT-07	14-OCT-07	17-OCT-07	17-OCT-07
		Sampled Time					
		Client ID	MRW1	OCW1	HRW1	ORAMLC	ORBMLC
Grouping	Analyte						
WATER							
Dissolved Metals	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	Not at Minago	Not at Minago	
	Sodium (Na)-Dissolved (mg/L)	5.64	2.14	3.04			
	Strontium (Sr)-Dissolved (mg/L)	0.0583	0.0357	0.0334			
	Thallium (Tl)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050			
	Tin (Sn)-Dissolved (mg/L)	0.00011	0.00011	<0.00010			
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010			
	Uranium (U)-Dissolved (mg/L)	0.000156	0.000149	0.000049			
	Vanadium (V)-Dissolved (mg/L)	0.000273	0.000074	0.000350			
	Zinc (Zn)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010			
Organic Parameters	Dissolved Organic Carbon (mg/L)		13.8	22.2			
	Total Organic Carbon (mg/L)		13.7	22.8			

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L569390-11	L569390-12	L569390-13	L569390-14	L569390-15
		Description					
		Sampled Date	17-OCT-07	17-OCT-07	17-OCT-07	17-OCT-07	17-OCT-07
		Sampled Time					
		Client ID	MCAOR	ORAHLC	ORBHLC	HLCAOR	ML-1
Grouping	Analyte						
WATER							
Dissolved Metals	Silver (Ag)-Dissolved (mg/L)	Not at Minago	Not at Minago	Not at Minago	Not at Minago	Not at Minago	
	Sodium (Na)-Dissolved (mg/L)						
	Strontium (Sr)-Dissolved (mg/L)						
	Thallium (Tl)-Dissolved (mg/L)						
	Tin (Sn)-Dissolved (mg/L)						
	Titanium (Ti)-Dissolved (mg/L)						
	Uranium (U)-Dissolved (mg/L)						
	Vanadium (V)-Dissolved (mg/L)						
	Zinc (Zn)-Dissolved (mg/L)						
Organic Parameters	Dissolved Organic Carbon (mg/L)						
	Total Organic Carbon (mg/L)						

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L569390-16	L569390-17	L569390-18	L569390-19	L569390-20
		Description					
		Sampled Date	17-OCT-07	17-OCT-07	16-OCT-07	16-OCT-07	16-OCT-07
		Sampled Time					
		Client ID	MLUC2	UCAOR	OCW3	OCW2	MRW2X
Grouping	Analyte						
WATER							
Dissolved Metals	Silver (Ag)-Dissolved (mg/L)	Not at Minago	Not at Minago	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)			1.66	2.08	3.56	
	Strontium (Sr)-Dissolved (mg/L)			0.0314	0.0369	0.0520	
	Thallium (Tl)-Dissolved (mg/L)			<0.000050	<0.000050	<0.000050	<0.000050
	Tin (Sn)-Dissolved (mg/L)			<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)			<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)			0.000030	0.000189	0.000163	
	Vanadium (V)-Dissolved (mg/L)			<0.000050	<0.000050	0.000262	
	Zinc (Zn)-Dissolved (mg/L)			<0.0010	<0.0010	<0.0010	<0.0010
Organic Parameters	Dissolved Organic Carbon (mg/L)						
	Total Organic Carbon (mg/L)						

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L569390-21	L569390-22	L569390-23		
		Description					
		Sampled Date	16-OCT-07				
		Sampled Time					
		Client ID	MRW3	TRAVEL BLANK	EQUIP RINSE WATER		
Grouping	Analyte						
WATER							
Dissolved Metals	Silver (Ag)-Dissolved (mg/L)	<0.000010					
	Sodium (Na)-Dissolved (mg/L)	5.60					
	Strontium (Sr)-Dissolved (mg/L)	0.0619					
	Thallium (Tl)-Dissolved (mg/L)	<0.000050					
	Tin (Sn)-Dissolved (mg/L)	<0.00010					
	Titanium (Ti)-Dissolved (mg/L)	<0.010					
	Uranium (U)-Dissolved (mg/L)	0.000151					
	Vanadium (V)-Dissolved (mg/L)	0.000253					
	Zinc (Zn)-Dissolved (mg/L)	<0.0010					
Organic Parameters	Dissolved Organic Carbon (mg/L)	18.1					
	Total Organic Carbon (mg/L)	18.1					

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automated Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-SCR-VA	Water	Alkalinity by colour or titration	EPA 310.2 OR APHA 2320
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method. OR This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
CARBONS-DOC-VA	Water	Dissolved organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colorimetric	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
FE-DIS-LOW-ICP-VA	Water	Dissolved Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
FE-TOT-LOW-ICP-VA	Water	Total Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
<p>Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.</p>			
HG-DIS-LOW-CVAFS-CL	Water	Dissolved Mercury in Water by CVAFS	EPA SW-846 3005A & EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
HG-TOT-LOW-CVAFS-CL	Water	Total Mercury in Water by CVAFS	EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-DIS-ULTRA-MS-VA	Water	Diss. Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
MET-TOT-ULTRA-MS-VA	Water	Total Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
<p>This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p>			
TDS-VA	Water	Total Dissolved Solids by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.</p>			
TKN-COL-VA	Water	Total Kjeldahl Nitrogen by Auto. Colour	APHA 4500-Norg (TKN)
<p>This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.</p>			
TN-CALC-VA	Water	TN by Calc (TKN + N+N)	BC MOE LABORATORY MANUAL (2005)
<p>Total Nitrogen is determined by calculation by suming TKN and the NO2 and NO3 results.</p>			
TSS-VA	Water	Solids by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.</p>			
TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
<p>This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.</p>			

**** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:**

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
CL	ALS LABORATORY GROUP - CALGARY, ALBERTA, CANADA	VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

SRC ANALYTICAL

L7.5-454 Nov 13, 2007

422 Downey Road
 Saskatoon, Saskatchewan, Canada
 S7N 4N1
 (306) 933-6932 or 1-800-240-8808
 Fax: (306) 933-7922

ALS
 Aurora Laboratory Services Ltd.
 1988 Triumph Street
 Vancouver, British Columbia V5L 1K5

Sample # **38167** Client PO #: **LW13064**
 Date Sampled: Date Received: **Oct 25, 2007**
 Sample Matrix: **WATER**
 Description: **L569390-1 WRW1X**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.03	0.005	Nov 09, 2007

SRC ANALYTICAL

L7.5-455 Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

Sample # **38168**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-2 WRAOC**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Nov 09, 2007

"<": not detected at level stated above.

SRC ANALYTICAL L7.5-456 Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

Sample # **38169**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-3 OCAWR**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.005	0.005	Nov 09, 2007

SRC ANALYTICAL

L7.5-457 Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **38170**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-4 LSBBWR**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Nov 09, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

L7.5-458 Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **38171**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-5 WRALSB**

Analyte	Units	Result	DL	Date Entered
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Radio Chemistry

Radium-226	Bq/L	<0.005	0.005	Nov 09, 2007
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"<": not detected at level stated above.

SRC ANALYTICAL **L7.5-459** Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

Sample # **38172**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-6 MRW1**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Nov 09, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

L7.5-460 Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **38173**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-7 OCW1**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Nov 09, 2007

"<": not detected at level stated above.

SRC ANALYTICAL **L7.5-461** Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

Sample # **38174**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-8 HEW1**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Nov 09, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

L7.5-462 Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **38175**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-9 ORAMLC**

Analyte	Units	Result	DL	Date Entered
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Radio Chemistry

Radium-226	Bq/L	Site not at Minago	0.005	Nov 09, 2007
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"<": not detected at level stated above.

SRC ANALYTICAL **L7.5-463** Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

Sample # **38176**
 Date Sampled:
 Sample Matrix: **WATER**
 Description: **L569390-10 ORBMLC**

Client PO #: **LW13064**
 Date Received: **Oct 25, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	Site not at Minago	0.005	Nov 09, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

L7.5-464 Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **38177**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-11 MCAOR**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	Site not at Minago	0.005	Nov 09, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

L7.5-465 Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **38178**
 Date Sampled:
 Sample Matrix: **WATER**
 Description: **L569390-12 ORAHLIC**

Client PO #: **LW13064**
 Date Received: **Oct 25, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	Site not at Minago	0.005	Nov 09, 2007

"<": not detected at level stated above.

SRC ANALYTICAL **L7.5-466** Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

Sample # **38179**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-13 ORBHL**

Analyte	Units	Result	DL	Date Entered
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Radio Chemistry

Radium-226	Bq/L	Site not at Minago	0.005	Nov 09, 2007
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"<": not detected at level stated above.

SRC ANALYTICAL L7.5-467 Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

Sample # **38180**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-14 HLCAOR**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	Site not at Minago	0.005	Nov 09, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

L7.5-468 Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **38181**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-15 ML-1**

Analyte	Units	Result	DL	Date Entered
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Radio Chemistry

Radium-226	Bq/L	Site not at Minago	0.005	Nov 09, 2007
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"<": not detected at level stated above.

SRC ANALYTICAL **L7.5-469** Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

Sample # **38182**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-16 MLUC-2**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	Site not at Minago	0.005	Nov 09, 2007

SRC ANALYTICAL **L7.5-470** Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

Sample # **38183**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-17 UCAOR**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	Site not at Minago	0.005	Nov 09, 2007

"<": not detected at level stated above.

SRC ANALYTICAL **L7.5-471** Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

Sample # **38184**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-18 OCW3**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Nov 09, 2007

"<": not detected at level stated above.

SRC ANALYTICAL L7.5-472 Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

Sample # **38185**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-19 OCW2**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Nov 09, 2007

"<": not detected at level stated above.

SRC ANALYTICAL

L7.5-473 Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

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Sample # **38186**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-20 MRW2X**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Nov 09, 2007

"<": not detected at level stated above.

SRC ANALYTICAL **L7.5-474** Nov 13, 2007

ALS, Aurora Laboratory Services Ltd.

Sample # **38187**

Client PO #: **LW13064**

Date Sampled:

Date Received: **Oct 25, 2007**

Sample Matrix: **WATER**

Description: **L569390-21 MRW3**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Nov 09, 2007

"<": not detected at level stated above.

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Dissolved Metals											
L569390-1	Water	WG680138-13	Aluminum (Al)-Dissolved	0.0380	0.0434	mg/L	13	20	-	-	-
L569390-1	Water	WG680138-13	Antimony (Sb)-Dissolved	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680138-13	Arsenic (As)-Dissolved	0.000598	0.000579	mg/L	3.4	39	-	-	-
L569390-1	Water	WG680138-13	Barium (Ba)-Dissolved	0.0108	0.0109	mg/L	0.65	20	-	-	-
L569390-1	Water	WG680138-13	Beryllium (Be)-Dissolved	<0.00020	<0.00020	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680138-13	Bismuth (Bi)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680138-13	Boron (B)-Dissolved	0.0058	0.0056	mg/L	-	-	0.0001	0.004	J
L569390-1	Water	WG680138-13	Cadmium (Cd)-Dissolved	0.000020	<0.000017	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680138-13	Calcium (Ca)-Dissolved	20.4	20.6	mg/L	1.2	20	-	-	-
L569390-1	Water	WG680138-13	Chromium (Cr)-Dissolved	0.00030	0.00024	mg/L	-	-	0.00006	0.0004	J
L569390-1	Water	WG680138-13	Cobalt (Co)-Dissolved	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680138-13	Copper (Cu)-Dissolved	0.00030	0.00029	mg/L	-	-	0.00001	0.0004	J
L569390-1	Water	WG680138-13	Iron (Fe)-Dissolved	0.086	0.083	mg/L	-	-	0.002	0.04	J
L569390-1	Water	WG680138-13	Lead (Pb)-Dissolved	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680138-13	Lithium (Li)-Dissolved	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680138-13	Magnesium (Mg)-Dissolved	12.4	12.4	mg/L	0.51	20	-	-	-
L569390-1	Water	WG680138-13	Manganese (Mn)-Dissolved	0.00841	0.00849	mg/L	1.0	20	-	-	-
L569390-1	Water	WG680138-13	Molybdenum (Mo)-Dissolved	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680138-13	Nickel (Ni)-Dissolved	0.00022	0.00022	mg/L	-	-	0.00001	0.0004	J
L569390-1	Water	WG680138-13	Phosphorus (P)-Dissolved	<0.30	<0.30	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680138-13	Potassium (K)-Dissolved	0.705	0.703	mg/L	0.24	20	-	-	-
L569390-1	Water	WG680138-13	Selenium (Se)-Dissolved	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680138-13	Silicon (Si)-Dissolved	4.52	4.49	mg/L	0.79	20	-	-	-
L569390-1	Water	WG680138-13	Silver (Ag)-Dissolved	<0.000010	<0.000010	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680138-13	Sodium (Na)-Dissolved	2.96	2.99	mg/L	1.1	39	-	-	-
L569390-1	Water	WG680138-13	Strontium (Sr)-Dissolved	0.0295	0.0294	mg/L	0.57	20	-	-	-
L569390-1	Water	WG680138-13	Thallium (Tl)-Dissolved	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680138-13	Tin (Sn)-Dissolved	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680138-13	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680138-13	Uranium (U)-Dissolved	0.000108	0.000109	mg/L	0.85	20	-	-	-
L569390-1	Water	WG680138-13	Vanadium (V)-Dissolved	0.000236	0.000249	mg/L	-	-	0.000013	0.0002	J
L569390-1	Water	WG680138-13	Zinc (Zn)-Dissolved	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
Total Metals											
L569390-1	Water	WG680689-2	Aluminum (Al)-Total	0.231	0.218	mg/L	5.5	20	-	-	-
L569390-1	Water	WG680689-2	Antimony (Sb)-Total	<0.000050	0.000051	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680689-2	Arsenic (As)-total	0.000600		mg/L	1.3	20	-	-	-
L569390-1	Water	WG680689-2	Barium (Ba)-Total	0.0126	0.0124	mg/L	1.9	20	-	-	-
L569390-1	Water	WG680689-2	Beryllium (Be)-total	<0.00020	<0.00020	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680689-2	Bismuth (Bi)-Total	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680689-2	Boron (B)-total	0.0054	0.0053	mg/L	-	-	0.0001	0.004	J
L569390-1	Water	WG680689-2	Cadmium (Cd)-Total	<0.000017	<0.000017	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680689-2	Calcium (Ca)-Total	21.0	21.1	mg/L	0.56	20	-	-	-
L569390-1	Water	WG680689-2	Chromium (Cr)-Total	0.00044	0.00046	mg/L	-	-	0.00002	0.0004	J
L569390-1	Water	WG680689-2	Cobalt (Co)-Total	0.00012	0.00013	mg/L	-	-	0.00001	0.0004	J
L569390-1	Water	WG680689-2	Copper (Cu)-Total	0.00046	0.00044	mg/L	-	-	0.00002	0.0004	J
L569390-1	Water	WG680689-2	Iron (Fe)-Total	0.268	0.275	mg/L	2.7	20	-	-	-
L569390-1	Water	WG680689-2	Lead (Pb)-Total	0.000125	0.000120	mg/L	-	-	0.000006	0.0002	J
L569390-1	Water	WG680689-2	Lithium (Li)-Total	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680689-2	Magnesium (Mg)-Total	12.6	12.8	mg/L	1.2	20	-	-	-
L569390-1	Water	WG680689-2	Manganese (Mn)-Total	0.0145	0.0144	mg/L	1.0	20	-	-	-
L569390-1	Water	WG680689-2	Molybdenum (Mo)-Total	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680689-2	Nickel (Ni)-Total	0.00045	0.00043	mg/L	-	-	0.00003	0.0004	J
L569390-1	Water	WG680689-2	Phosphorus (P)-Total	<0.30	<0.30	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680689-2	Potassium (K)-Total	0.757	0.764	mg/L	0.93	20	-	-	-
L569390-1	Water	WG680689-2	Selenium (Se)-Total	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680689-2	Silicon (Si)-Total	4.79	4.83	mg/L	0.82	20	-	-	-
L569390-1	Water	WG680689-2	Silver (Ag)-Total	<0.000010	<0.000010	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680689-2	Sodium (Na)-Total	3.01	3.01	mg/L	0.049	20	-	-	-
L569390-1	Water	WG680689-2	Strontium (Sr)-Total	0.0304	0.0299	mg/L	1.7	20	-	-	-
L569390-1	Water	WG680689-2	Thallium (Tl)-Total	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680689-2	Tin (Sn)-Total	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L569390-1	Water	WG680689-2	Titanium (Ti)-Total	0.013	0.014	mg/L	-	-	0.001	0.04	J
L569390-1	Water	WG680689-2	Uranium (U)-Total	0.000118	0.000115	mg/L	2.5	20	-	-	-
L569390-1	Water	WG680689-2	Vanadium (V)-Total	0.000606	0.000620	mg/L	2.2	20	-	-	-
L569390-1	Water	WG680689-2	Zinc (Zn)-Total	0.0015	0.0013	mg/L	-	-	0.0002	0.004	J
Dissolved Metals											
L569390-1	Water	WG693166-10	Mercury (Hg)-Dissolved	<0.000010	<0.000010	mg/L	N/A	26	-	-	RPD-NA
Total Metals											
L569390-2	Water	WG693166-8	Mercury (Hg)-Total	<0.000010	<0.000010	mg/L	N/A	26	-	-	RPD-NA
L569390-3	Water	WG679959-6	Aluminum (Al)-Total	0.173	0.173	mg/L	0.31	20	-	-	-
L569390-3	Water	WG679959-6	Antimony (Sb)-Total	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L569390-3	Water	WG679959-6	Arsenic (As)-total	0.000616	0.000600	mg/L	2.6	20	-	-	-
L569390-3	Water	WG679959-6	Barium (Ba)-Total	0.00990	0.0100	mg/L	1.1	20	-	-	-
L569390-3	Water	WG679959-6	Beryllium (Be)-total	<0.00020	<0.00020	mg/L	N/A	20	-	-	RPD-NA

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD			Qualifier
								Limit	Diff	Diff Limit	
L569390-3	Water	WG679959-6	Bismuth (Bi)-Total	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L569390-3	Water	WG679959-6	Boron (B)-total	0.0044	0.0043	mg/L	-	-	0.0001	0.004	J
L569390-3	Water	WG679959-6	Cadmium (Cd)-Total	<0.000017	<0.000017	mg/L	N/A	20	-	-	RPD-NA
L569390-3	Water	WG679959-6	Calcium (Ca)-Total	19.8	20.2	mg/L	2.0	20	-	-	-
L569390-3	Water	WG679959-6	Chromium (Cr)-Total	0.00037	0.00054	mg/L	-	-	0.00018	0.0004	J
L569390-3	Water	WG679959-6	Cobalt (Co)-Total	0.00012	0.00012	mg/L	-	-	0.00001	0.0004	J
L569390-3	Water	WG679959-6	Copper (Cu)-Total	0.00037	0.00041	mg/L	-	-	0.00004	0.0004	J
L569390-3	Water	WG679959-6	Lead (Pb)-Total	0.000107	0.000118	mg/L	-	-	0.000012	0.0002	J
L569390-3	Water	WG679959-6	Lithium (Li)-Total	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L569390-3	Water	WG679959-6	Magnesium (Mg)-Total	10.1	10.0	mg/L	0.43	20	-	-	-
L569390-3	Water	WG679959-6	Manganese (Mn)-Total	0.0148	0.0149	mg/L	0.94	20	-	-	-
L569390-3	Water	WG679959-6	Molybdenum (Mo)-Total	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L569390-3	Water	WG679959-6	Nickel (Ni)-Total	0.00040	0.00047	mg/L	-	-	0.00007	0.0004	J
L569390-3	Water	WG679959-6	Phosphorus (P)-Total	<0.30	<0.30	mg/L	N/A	20	-	-	RPD-NA
L569390-3	Water	WG679959-6	Potassium (K)-Total	0.693	0.707	mg/L	2.0	20	-	-	-
L569390-3	Water	WG679959-6	Selenium (Se)-Total	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L569390-3	Water	WG679959-6	Silicon (Si)-Total	4.91	4.93	mg/L	0.31	20	-	-	-
L569390-3	Water	WG679959-6	Silver (Ag)-Total	<0.000010	<0.000010	mg/L	N/A	20	-	-	RPD-NA
L569390-3	Water	WG679959-6	Sodium (Na)-Total	3.16	3.18	mg/L	0.69	20	-	-	-
L569390-3	Water	WG679959-6	Strontium (Sr)-Total	0.0301	0.0296	mg/L	1.9	20	-	-	-
L569390-3	Water	WG679959-6	Thallium (Tl)-Total	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L569390-3	Water	WG679959-6	Tin (Sn)-Total	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L569390-3	Water	WG679959-6	Titanium (Ti)-Total	0.010	0.010	mg/L	-	-	0.000	0.04	J
L569390-3	Water	WG679959-6	Uranium (U)-Total	0.000081	0.000085	mg/L	-	-	0.000004	0.00004	J
L569390-3	Water	WG679959-6	Vanadium (V)-Total	0.000449	0.000497	mg/L	-	-	0.000048	0.0002	J
L569390-3	Water	WG679959-6	Zinc (Zn)-Total	0.0017	0.0019	mg/L	-	-	0.0002	0.004	J
Physical Tests											
L569390-3	Water	WG680649-3	Turbidity	7.23	7.13	NTU	1.4	39	-	-	-
L569390-3	Water	WG682737-5	Total Dissolved Solids	139	131	mg/L	6.3	20	-	-	-
L569390-3	Water	WG682763-5	Total Suspended Solids	3.5	5.0	mg/L	-	-	1.5	12	J
Anions and Nutrients											
L569390-4	Water	WG680526-3	Acidity (as CaCO3)	3.1	2.1	mg/L	-	-	1.0	4	J
Physical Tests											
L569390-4	Water	WG680526-3	Conductivity	247	251	uS/cm	1.6	20	-	-	-
L569390-4	Water	WG680526-3	pH	7.90	8.12	pH	2.7	20	-	-	-
Anions and Nutrients											
L569390-7	Water	WG682989-3	Total Kjeldahl Nitrogen	0.371	0.375	mg/L	-	-	0.004	0.2	J
Total Metals											
L569390-10	Water	WG693166-11	Mercury (Hg)-Total	<0.000010	<0.000010	mg/L	N/A	26	-	-	RPD-NA
Anions and Nutrients											
L569390-11	Water	WG684251-3	Nitrate (as N)	0.78	0.97	mg/L	-	-	0.19	2	J
L569390-11	Water	WG684251-3	Nitrite (as N)	<0.10	<0.10	mg/L	N/A	20	-	-	RPD-NA
Total Metals											
L569390-13	Water	WG680392-2	Aluminum (Al)-Total	0.598	0.551	mg/L	8.3	20	-	-	-
L569390-13	Water	WG680392-2	Antimony (Sb)-Total	0.000565	0.000544	mg/L	3.6	20	-	-	-
L569390-13	Water	WG680392-2	Arsenic (As)-total	0.000496	0.000470	mg/L	5.6	20	-	-	-
L569390-13	Water	WG680392-2	Barium (Ba)-Total	0.0157	0.0152	mg/L	3.3	20	-	-	-
L569390-13	Water	WG680392-2	Beryllium (Be)-total	<0.00020	<0.00020	mg/L	N/A	20	-	-	RPD-NA
L569390-13	Water	WG680392-2	Bismuth (Bi)-Total	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L569390-13	Water	WG680392-2	Boron (B)-total	0.0048	0.0049	mg/L	-	-	0.0000	0.004	J
L569390-13	Water	WG680392-2	Cadmium (Cd)-Total	<0.000017	<0.000017	mg/L	N/A	20	-	-	RPD-NA
L569390-13	Water	WG680392-2	Calcium (Ca)-Total	29.0	28.7	mg/L	1.2	20	-	-	-
L569390-13	Water	WG680392-2	Chromium (Cr)-Total	0.00118	0.00117	mg/L	1.2	20	-	-	-
L569390-13	Water	WG680392-2	Cobalt (Co)-Total	0.00033	0.00031	mg/L	-	-	0.00002	0.0004	J
L569390-13	Water	WG680392-2	Copper (Cu)-Total	0.00168	0.00145	mg/L	15	20	-	-	-
L569390-13	Water	WG680392-2	Iron (Fe)-Total	0.707	0.675	mg/L	4.7	20	-	-	-
L569390-13	Water	WG680392-2	Lead (Pb)-Total	0.000331	0.000329	mg/L	-	-	0.000002	0.0002	J
L569390-13	Water	WG680392-2	Lithium (Li)-Total	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L569390-13	Water	WG680392-2	Magnesium (Mg)-Total	7.62	7.54	mg/L	1.1	20	-	-	-
L569390-13	Water	WG680392-2	Manganese (Mn)-Total	0.0428	0.0417	mg/L	2.5	20	-	-	-
L569390-13	Water	WG680392-2	Molybdenum (Mo)-Total	0.000154	0.000147	mg/L	-	-	0.000007	0.0002	J
L569390-13	Water	WG680392-2	Nickel (Ni)-Total	0.00141	0.00142	mg/L	0.84	20	-	-	-
L569390-13	Water	WG680392-2	Phosphorus (P)-Total	<0.30	<0.30	mg/L	N/A	20	-	-	RPD-NA
L569390-13	Water	WG680392-2	Potassium (K)-Total	1.08	1.06	mg/L	1.7	20	-	-	-
L569390-13	Water	WG680392-2	Selenium (Se)-Total	<0.00010	0.00015	mg/L	N/A	20	-	-	RPD-NA
L569390-13	Water	WG680392-2	Silicon (Si)-Total	2.98	2.87	mg/L	3.5	20	-	-	-
L569390-13	Water	WG680392-2	Silver (Ag)-Total	<0.000010	<0.000010	mg/L	N/A	20	-	-	RPD-NA
L569390-13	Water	WG680392-2	Sodium (Na)-Total	2.59	2.55	mg/L	1.9	20	-	-	-
L569390-13	Water	WG680392-2	Strontium (Sr)-Total	0.0433	0.0425	mg/L	1.9	20	-	-	-
L569390-13	Water	WG680392-2	Thallium (Tl)-Total	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L569390-13	Water	WG680392-2	Tin (Sn)-Total	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L569390-13	Water	WG680392-2	Titanium (Ti)-Total	0.030	0.029	mg/L	-	-	0.001	0.04	J
L569390-13	Water	WG680392-2	Uranium (U)-Total	0.000284	0.000280	mg/L	1.4	20	-	-	-

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
L569390-13	Water	WG680392-2	Vanadium (V)-Total	0.00134	0.00131	mg/L	2.6	20	-	-	-
L569390-13	Water	WG680392-2	Zinc (Zn)-Total	0.0030	0.0030	mg/L	-	-	0.0000	0.004	J
Physical Tests											
L569390-17	Water	WG680649-4	Turbidity	15.8	15.4	NTU	2.6	39	-	-	-
Anions and Nutrients											
L569390-21	Water	WG681177-7	Bromide (Br)	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L569390-21	Water	WG681177-7	Chloride (Cl)	2.07	2.08	mg/L	-	-	0.01	2	J
L569390-21	Water	WG681177-7	Fluoride (F)	0.074	0.075	mg/L	-	-	0.001	0.08	J
L569390-21	Water	WG681177-7	Sulfate (SO4)	1.41	1.39	mg/L	-	-	0.02	2	J

QUALITY CONTROL RESULTS

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Physical Tests										
Water	CRM	Turbidity	WG680649-2	VA-TURB-SPK-8	7.89	8.00	NTU	99	85-115	
Water	CRM	Total Dissolved Solids	WG682737-2	VA-TDS-INFUS-425	415	425	mg/L	98	88-112	
Water	CRM	Total Suspended Solids	WG682763-2	VA-TSS-INFUS-75	70.0	75.0	mg/L	93	80-120	
Water	CRM	pH	WG680526-13	VA-PH7-BUF	7.02	7.00	pH	7.02	6.97-7.03	
Water	CRM	Acidity (as CaCO3)	WG680526-14	VA-ACY-CONTROL	50.4	50.0	mg/L	101	85-115	
Water	CRM	Acidity (as CaCO3)	WG682353-11	VA-ACY-CONTROL	51.0	50.0	mg/L	102	85-115	
Water	MB	Turbidity	WG680649-1		<0.10	<0.1	NTU	-	0.1	
Water	MB	Total Dissolved Solids	WG682737-1		<10	<10	mg/L	-	10	
Water	MB	Total Suspended Solids	WG682763-1		<3.0	<3	mg/L	-	3	
Anions and Nutrients										
Water	CRM	Ammonia as N	WG680225-2	VA-SPXNUT-22-16	3.94	3.84	mg/L	103	86-114	
Water	CRM	Ammonia as N	WG680984-2	VA-SPXNUT-22-16	3.86	3.84	mg/L	101	86-114	
Water	CRM	Bromide (Br)	WG681177-2	VA-ALLT-170088	0.989	1.00	mg/L	99	90-110	
Water	CRM	Chloride (Cl)	WG681177-2	VA-ALLT-170088	51.3	50.1	mg/L	102	94-106	
Water	CRM	Fluoride (F)	WG681177-2	VA-ALLT-170088	1.02	1.00	mg/L	102	93-107	
Water	CRM	Sulfate (SO4)	WG681177-2	VA-ALLT-170088	51.7	50.1	mg/L	103	93-107	
Water	CRM	Total Kjeldahl Nitrogen	WG681928-2	VA-TKN-CSPK1	1.06	1.00	mg/L	106	85-115	
Water	CRM	Total Kjeldahl Nitrogen	WG682989-2	VA-TKN-CSPK1	1.06	1.00	mg/L	106	85-115	
Water	CRM	Nitrate (as N)	WG684251-2	VA-ALLT-170088	0.224	0.225	mg/L	99	91-109	
Water	CRM	Nitrite (as N)	WG684251-2	VA-ALLT-170088	0.156	0.152	mg/L	103	91-109	
Water	CRM	pH	WG680526-13	VA-PH7-BUF	7.02	7.00	pH	7.02	6.97-7.03	
Water	CRM	Acidity (as CaCO3)	WG680526-14	VA-ACY-CONTROL	50.4	50.0	mg/L	101	85-115	
Water	CRM	Bromide (Br)	WG681177-12	VA-ALLT-170088	1.00	1.00	mg/L	100	90-110	
Water	CRM	Chloride (Cl)	WG681177-12	VA-ALLT-170088	50.1	50.1	mg/L	100	94-106	
Water	CRM	Fluoride (F)	WG681177-12	VA-ALLT-170088	1.01	1.00	mg/L	101	93-107	
Water	CRM	Sulfate (SO4)	WG681177-12	VA-ALLT-170088	51.3	50.1	mg/L	102	93-107	
Water	CRM	Acidity (as CaCO3)	WG682353-11	VA-ACY-CONTROL	51.0	50.0	mg/L	102	85-115	
Water	CRM	Nitrate (as N)	WG684251-13	VA-ALLT-170088	0.239	0.225	mg/L	106	91-109	
Water	CRM	Nitrite (as N)	WG684251-13	VA-ALLT-170088	0.160	0.152	mg/L	105	91-109	
Water	MB	Alkalinity, Total (as CaCO3)	WG680220-1		<2.0	<2	mg/L	-		
Water	MB	Alkalinity, Total (as CaCO3)	WG680220-3		<2.0	<2	mg/L	-		
Water	MB	Ammonia as N	WG680225-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Ammonia as N	WG680984-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Bromide (Br)	WG681177-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG681177-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG681177-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG681177-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Bromide (Br)	WG681177-4		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG681177-4		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG681177-4		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG681177-4		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Bromide (Br)	WG681177-6		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG681177-6		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG681177-6		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG681177-6		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Bromide (Br)	WG681177-8		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG681177-8		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG681177-8		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG681177-8		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Total Kjeldahl Nitrogen	WG681928-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Total Kjeldahl Nitrogen	WG682989-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Nitrate (as N)	WG684251-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG684251-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Nitrate (as N)	WG684251-4		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG684251-4		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Nitrate (as N)	WG684251-6		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG684251-6		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Nitrate (as N)	WG684251-8		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG684251-8		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG681177-10		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG681177-10		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG681177-10		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG681177-10		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Bromide (Br)	WG681177-11		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG681177-11		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG681177-11		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Nitrate (as N)	WG684251-10		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG684251-10		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Nitrite (as N)	WG684251-12		<0.0010	<0.001	mg/L	-	0.001	
Cyanides										
Water	MB	Cyanide, Weak Acid Diss	WG688775-1		<0.0050	<0.005	mg/L	-	0.005	
Total Metals										
Water	CRM	Iron (Fe)-Total	WG679959-4	VA-HIGH-WATRM	0.979	1.00	mg/L	98	90-110	
Water	CRM	Phosphorus (P)-Total	WG679959-4	VA-HIGH-WATRM	2.55	2.50	mg/L	102	90-110	
Water	CRM	Silicon (Si)-Total	WG679959-4	VA-HIGH-WATRM	1.00	1.00	mg/L	100	90-110	
Water	CRM	Iron (Fe)-Total	WG680392-4	VA-HIGH-WATRM	0.953	1.00	mg/L	95	90-110	
Water	CRM	Phosphorus (P)-Total	WG680392-4	VA-HIGH-WATRM	2.51	2.50	mg/L	101	90-110	
Water	CRM	Silicon (Si)-Total	WG680392-4	VA-HIGH-WATRM	1.00	1.00	mg/L	100	90-110	
Water	CRM	Iron (Fe)-Total	WG680689-3	VA-HIGH-WATRM	0.967	1.00	mg/L	97	90-110	
Water	CRM	Phosphorus (P)-Total	WG680689-3	VA-HIGH-WATRM	2.52	2.50	mg/L	101	90-110	
Water	CRM	Silicon (Si)-Total	WG680689-3	VA-HIGH-WATRM	0.983	1.00	mg/L	98	90-110	

QUALITY CONTROL RESULTS

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Water	CRM	Mercury (Hg)-Total	WG693166-6	LCS-TOT	0.000093	0.000100	mg/L	93	85-115	
Water	CRM	Mercury (Hg)-Dissolved	WG693166-7	LCS-DIS	0.000093	0.000100	mg/L	93	85-115	
Water	MB	Aluminum (Al)-Total	WG679959-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Antimony (Sb)-Total	WG679959-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Arsenic (As)-total	WG679959-1		<0.000030	<0.00003	mg/L	-	0.00003	
Water	MB	Barium (Ba)-Total	WG679959-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Beryllium (Be)-total	WG679959-1		<0.00020	<0.0002	mg/L	-	0.0002	
Water	MB	Bismuth (Bi)-Total	WG679959-1		<0.00050	<0.0005	mg/L	-	0.0005	
Water	MB	Boron (B)-total	WG679959-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Cadmium (Cd)-Total	WG679959-1		<0.000017	<0.000017	mg/L	-	0.000017	
Water	MB	Calcium (Ca)-Total	WG679959-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Chromium (Cr)-Total	WG679959-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Cobalt (Co)-Total	WG679959-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Copper (Cu)-Total	WG679959-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Iron (Fe)-Total	WG679959-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Lead (Pb)-Total	WG679959-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Lithium (Li)-Total	WG679959-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Magnesium (Mg)-Total	WG679959-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Manganese (Mn)-Total	WG679959-1		<0.000060	<0.00006	mg/L	-	0.00006	
Water	MB	Molybdenum (Mo)-Total	WG679959-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Nickel (Ni)-Total	WG679959-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Phosphorus (P)-Total	WG679959-1		<0.30	<0.3	mg/L	-	0.3	
Water	MB	Potassium (K)-Total	WG679959-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Selenium (Se)-Total	WG679959-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Silicon (Si)-Total	WG679959-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Silver (Ag)-Total	WG679959-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Sodium (Na)-Total	WG679959-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Strontium (Sr)-Total	WG679959-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Thallium (Tl)-Total	WG679959-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Tin (Sn)-Total	WG679959-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Titanium (Ti)-Total	WG679959-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Uranium (U)-Total	WG679959-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Vanadium (V)-Total	WG679959-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Zinc (Zn)-Total	WG679959-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Aluminum (Al)-Total	WG680392-1		0.0019	<0.001	mg/L	-	0.001	A
Water	MB	Antimony (Sb)-Total	WG680392-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Arsenic (As)-total	WG680392-1		<0.000030	<0.00003	mg/L	-	0.00003	
Water	MB	Barium (Ba)-Total	WG680392-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Beryllium (Be)-total	WG680392-1		<0.00020	<0.0002	mg/L	-	0.0002	
Water	MB	Bismuth (Bi)-Total	WG680392-1		<0.00050	<0.0005	mg/L	-	0.0005	
Water	MB	Boron (B)-total	WG680392-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Cadmium (Cd)-Total	WG680392-1		<0.000017	<0.000017	mg/L	-	0.000017	
Water	MB	Calcium (Ca)-Total	WG680392-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Chromium (Cr)-Total	WG680392-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Cobalt (Co)-Total	WG680392-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Copper (Cu)-Total	WG680392-1		0.00016	<0.0001	mg/L	-	0.0001	A
Water	MB	Iron (Fe)-Total	WG680392-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Lead (Pb)-Total	WG680392-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Lithium (Li)-Total	WG680392-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Magnesium (Mg)-Total	WG680392-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Manganese (Mn)-Total	WG680392-1		0.000095	<0.00005	mg/L	-	0.00005	A
Water	MB	Molybdenum (Mo)-Total	WG680392-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Nickel (Ni)-Total	WG680392-1		0.00025	<0.0001	mg/L	-	0.0001	A
Water	MB	Phosphorus (P)-Total	WG680392-1		<0.30	<0.3	mg/L	-	0.3	
Water	MB	Potassium (K)-Total	WG680392-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Selenium (Se)-Total	WG680392-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Silicon (Si)-Total	WG680392-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Silver (Ag)-Total	WG680392-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Sodium (Na)-Total	WG680392-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Strontium (Sr)-Total	WG680392-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Thallium (Tl)-Total	WG680392-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Tin (Sn)-Total	WG680392-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Titanium (Ti)-Total	WG680392-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Uranium (U)-Total	WG680392-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Vanadium (V)-Total	WG680392-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Zinc (Zn)-Total	WG680392-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Aluminum (Al)-Total	WG680689-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Antimony (Sb)-Total	WG680689-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Arsenic (As)-total	WG680689-1		<0.000030	<0.00003	mg/L	-	0.00003	
Water	MB	Barium (Ba)-Total	WG680689-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Beryllium (Be)-total	WG680689-1		<0.00020	<0.0002	mg/L	-	0.0002	
Water	MB	Bismuth (Bi)-Total	WG680689-1		<0.00050	<0.0005	mg/L	-	0.0005	
Water	MB	Boron (B)-total	WG680689-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Cadmium (Cd)-Total	WG680689-1		<0.000017	<0.000017	mg/L	-	0.000017	
Water	MB	Calcium (Ca)-Total	WG680689-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Chromium (Cr)-Total	WG680689-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Cobalt (Co)-Total	WG680689-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Copper (Cu)-Total	WG680689-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Iron (Fe)-Total	WG680689-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Lead (Pb)-Total	WG680689-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Lithium (Li)-Total	WG680689-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Magnesium (Mg)-Total	WG680689-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Manganese (Mn)-Total	WG680689-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Molybdenum (Mo)-Total	WG680689-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Nickel (Ni)-Total	WG680689-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Phosphorus (P)-Total	WG680689-1		<0.30	<0.3	mg/L	-	0.3	

QUALITY CONTROL RESULTS

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Water	MB	Potassium (K)-Total	WG680689-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Selenium (Se)-Total	WG680689-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Silicon (Si)-Total	WG680689-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Silver (Ag)-Total	WG680689-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Sodium (Na)-Total	WG680689-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Strontium (Sr)-Total	WG680689-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Thallium (Tl)-Total	WG680689-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Tin (Sn)-Total	WG680689-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Titanium (Ti)-Total	WG680689-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Uranium (U)-Total	WG680689-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Vanadium (V)-Total	WG680689-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Zinc (Zn)-Total	WG680689-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Mercury (Hg)-Dissolved	WG693166-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Mercury (Hg)-Total	WG693166-1		<0.000010	<0.00001	mg/L	-	0.00001	
Dissolved Metals										
Water	CRM	Iron (Fe)-Dissolved	WG680138-4	VA-HIGH-WATRM	0.983	1.00	mg/L	98	90-110	
Water	CRM	Phosphorus (P)-Dissolved	WG680138-4	VA-HIGH-WATRM	2.59	2.50	mg/L	104	90-110	
Water	CRM	Silicon (Si)-Dissolved	WG680138-4	VA-HIGH-WATRM	1.01	1.00	mg/L	101	90-110	
Water	CRM	Mercury (Hg)-Total	WG693166-6	LCS-TOT	0.000093	0.000100	mg/L	93	85-115	
Water	CRM	Mercury (Hg)-Dissolved	WG693166-7	LCS-DIS	0.000093	0.000100	mg/L	93	85-115	
Water	MB	Aluminum (Al)-Dissolved	WG680138-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Antimony (Sb)-Dissolved	WG680138-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Arsenic (As)-Dissolved	WG680138-1		<0.000030	<0.00003	mg/L	-	0.00003	
Water	MB	Barium (Ba)-Dissolved	WG680138-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Beryllium (Be)-Dissolved	WG680138-1		<0.00020	<0.0002	mg/L	-	0.0002	
Water	MB	Bismuth (Bi)-Dissolved	WG680138-1		<0.00050	<0.0005	mg/L	-	0.0005	
Water	MB	Boron (B)-Dissolved	WG680138-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Cadmium (Cd)-Dissolved	WG680138-1		<0.000017	<0.000017	mg/L	-	0.000017	
Water	MB	Calcium (Ca)-Dissolved	WG680138-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Chromium (Cr)-Dissolved	WG680138-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Cobalt (Co)-Dissolved	WG680138-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Copper (Cu)-Dissolved	WG680138-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Iron (Fe)-Dissolved	WG680138-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Lead (Pb)-Dissolved	WG680138-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Lithium (Li)-Dissolved	WG680138-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Magnesium (Mg)-Dissolved	WG680138-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Manganese (Mn)-Dissolved	WG680138-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Molybdenum (Mo)-Dissolved	WG680138-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Nickel (Ni)-Dissolved	WG680138-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Phosphorus (P)-Dissolved	WG680138-1		<0.30	<0.3	mg/L	-	0.3	
Water	MB	Potassium (K)-Dissolved	WG680138-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Selenium (Se)-Dissolved	WG680138-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Silicon (Si)-Dissolved	WG680138-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Silver (Ag)-Dissolved	WG680138-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Sodium (Na)-Dissolved	WG680138-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Strontium (Sr)-Dissolved	WG680138-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Thallium (Tl)-Dissolved	WG680138-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Tin (Sn)-Dissolved	WG680138-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Titanium (Ti)-Dissolved	WG680138-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Uranium (U)-Dissolved	WG680138-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Vanadium (V)-Dissolved	WG680138-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Zinc (Zn)-Dissolved	WG680138-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Mercury (Hg)-Dissolved	WG693166-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Mercury (Hg)-Total	WG693166-1		<0.000010	<0.00001	mg/L	-	0.00001	
Organic Parameters										
Water	CRM	Total Organic Carbon	WG682671-2	VA-TOC-C-CAFFEINE	8.31	8.57	mg/L	97	85-115	
Water	MB	Total Organic Carbon	WG682671-1		<0.50	<0.5	mg/L	-	0.5	

Andre Langlais

L7.5-481

From: SRC Analytical Laboratories [analytical@src.sk.ca]
Sent: Tuesday, November 13, 2007 7:20 AM
To: Andre Langlais
Subject: SRC Analytical Results for Group 2007-8310



2007-8310.pdf (48
KB)

ALS

Aurora Laboratory Services Ltd.
1988 Triumph Street
Vancouver, British Columbia V5L 1K5

Project Number: LW13064

Date Samples Received: 10/25/2007

Results for the following SRC Analytical Groups are included in the enclosed file:

2007-8310

If you have any problems with your enclosed file, feel free to give me a call.

SRC Analytical Laboratories
422 Downey Road
Saskatoon, Saskatchewan
S7N 4N1

Phone: (306) 933-6932
Fax: (306) 933-7922
email: chrusch@src.sk.ca

This e-mail has been swept by mimesweeper
through the ALS North America gateway.

COC # 11C 300-6

Chain of Custody / Analytical Request Form
 Canada Toll Free: 1 800 668 9878
 www.alsglobal.com

MINAGO PROJECT

Page 1 of 1

LS69390

Report to: Dr. David Mchaina Company: Victory Nickel Inc. Contact: #1802-80 Richmond Street Address: Toronto, Ont. M5H 1A4 Account: VIC300 Phone: (519) 241-9655 Fax: (416) 626-0890		Report Format / Distribution Email 1: gmchaina@hotmail.com Email 2: Indicate Bottles: Filtered / Preserved (FP) ---		Service Requested: Regular Service (Default) Rush Service (2-3 Days) Priority Service (1 Day or ASAP) Emergency Service (<1 Day / Wkend) - Contact ALS							
Client / Project Information: Job #: Minago Project PO/AFE: Legal Site Description: Minago Project Quote #: ALS-EQ07-480		ALS Sampler Bryan Mark (Initials): Karin Renken/Ken Bud		Analysis Request P P P P P P P P 1 - General Parameters & NO3 & NO2 2 - Radium-226 3 - Weak Acid Dissociable Cyanide 4 - Diss. Low Level Metals 5 - Total Low Level Metals 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2							
Lab Work Order # (lab use only)		Sample Identification (This description will appear on the report)		Number of Containers Highly Contaminated? Hazardous?							
Sample #	WRW1x 1 - General Parameters & NO3 & NO2	Date	dd-mm-yy	Time	hh:mm	Sample Type	(Select from drop-down list)				
1	WRW1x 2 - Radium-226	Oct. 15, 2007				water					
1	WRW1x 3 - Weak Acid Dissociable Cyanide	Oct. 15, 2007				water					
1	WRW1x 4 - Diss. Low Level Metals	Oct. 15, 2007				water					
1	WRW1x 5 - Total Low Level Metals	Oct. 15, 2007				water					
1	WRW1x 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2	Oct. 15, 2007				water					
Guidelines / Regulations						Special Instructions / Hazardous Details					
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.						Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.					
Relinquished By:	Date & Time:	Received By:	Date & Time:	Date & Time: <u>Oct-23</u>		Temperature: <u>6.2</u>		Samples Received in Good Condition? Y/N (if no provided details)			
Relinquished By:	Date & Time:	Received By:	Date & Time:	Date & Time: <u>10:53</u>							

Kc-lead
Oct. 15, 2007

COC # VIC300-7

Chain of Custody / Analytical Request Form
 Canada Toll Free: 1 800 668 9878
 www.alsglobal.com

MINAGO PROJECT

LS69390

Report to: Dr. David McHalna Company: Victory Nickel Inc. Contact: #1802-80 Richmond Street Address: Toronto, Ont. M5H 1A4 Account: VIC300 Phone: (519) 241-9655 Fax: (416) 626-0890 Invoice To: Company: same as above Contact: Address: Sample Phone: Fax:		Report Format / Distribution Regular Service (Default) Rush Service (2-3 Days) Priority Service (1 Day or ASAP) Emergency Service (<1 Day / Wkend) - Contact ALS	
Client / Project Information: Job #: Minago Project PO/A/E: Legal Site Description: Minago Project Quote #: ALS-EQ07-480		Service Requested: P P P P P P P 1 - General Parameters 2 - Radium-226 3 - Weak Acid Dissociable Cyanide 4 - Diss. Low Level Metals 5 - Total Low Level Metals 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2 Hazardous? Highly Contaminated? Number of Containers	
ALS Contact: Bryan Mark Date: dd-mmm-yy Time: hh:mm Sampler (Initials): Karin Renken/Ken Bud Sample Type: (Select from drop-down list)		Indicate Bottles: Filtered / Preserved (F/P) --- P P P P P P P	
Sample Identification (This description will appear on the report)		Special Instructions / Hazardous Details	
1 WRAOC 1 - General Parameters 1 WRAOC 2 - Radium-226 1 WRAOC 3 - Weak Acid Dissociable Cyanide 1 WRAOC 4 - Diss. Low Level Metals 1 WRAOC 5 - Total Low Level Metals 1 WRAOC 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2		X X X X X X	
Guidelines / Regulations		Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.	
Relinquished By:	Date & Time:	Received By:	Date & Time:
Relinquished By:	Date & Time:	Received By:	Date & Time:
Temperature		Sample Condition (lab use only)	
		Samples Received in Good Condition? Y / N (if no provided details)	

Ken
 Oct. 15, 2007

VIC 300-8
 VIC
 COC #

Chain of Custody / Analytical Request Form
 Canada Toll Free: 1 800 668 9878
 www.alsglobal.com

1569390

MINAGO PROJECT

Report to: Dr. David Mchaina		Report Format / Distribution		Service Requested:	
Company: Victory Nickel Inc.		Regular Service (Default)		Regular Service (Default)	
Contact: #1802-80 Richmond Street		Rush Service (2-3 Days)		Rush Service (2-3 Days)	
Address: Toronto, Ont. M5H 1A4		Priority Service (1 Day or ASAP)		Priority Service (1 Day or ASAP)	
Account: VIC300		Emergency Service (<1 Day / Wkend) - Contact ALS		Emergency Service (<1 Day / Wkend) - Contact ALS	
Phone: (519) 241-9655 Fax: (416) 626-0890		Indicate Bottles: Filtered / Preserved (F/P) →		Analysis Request	
Invoice To:		Client / Project Information:		P P P P P P	
Company: same as above		Job #: Minago Project		1 - General Parameters	
Contact:		PO/AFE:		2 - Radium-226	
Address:		Legal Site Description: Minago Project		3 - Weak Acid Dissociable Cyanide	
Sample:		Quote #: ALS-EQ07-480		4 - Diss. Low Level Metals	
Phone:		ALS		5 - Total Low Level Metals	
Lab Work Order #		Contact: Bryan Mark		8 - TKN & NH3	
(lab use only)		Sampler (Initials): Karin Renken/Ken Bud		and at 1:100 Dilution NO3 & NO2	
Sample Identification		Date		Highly Contaminated?	
(This description will appear on the report)		dd-mmm-yy		Hazardous?	
Sample #	Time	Sample Type	Date	Number of Containers	
1	hh:mm	(Select from drop-down list)	Oct. 16, 2007	X	
1		water	Oct. 16, 2007	X	
1		water	Oct. 16, 2007	X	
1		water	Oct. 16, 2007	X	
1		water	Oct. 16, 2007	X	
1		water	Oct. 16, 2007	X	
1		water	Oct. 16, 2007	X	
Guidelines / Regulations		Special Instructions / Hazardous Details			
OCAWR 1 - General Parameters		OCAWR 2 - Radium-226			
OCAWR 3 - Weak Acid Dissociable Cyanide		OCAWR 4 - Diss. Low Level Metals			
OCAWR 5 - Total Low Level Metals		OCAWR 8 - TKN & NH3			
OCAWR 8 - TKN & NH3		and at 1:100 Dilution NO3 & NO2			
By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.		Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.			
Relinquished	Date & Time:	Received	Date & Time:	Sample Condition (lab use only)	
By:		By:		Temperature	
Relinquished	Date & Time:	Received	Date & Time:	Samples Received in Good Condition? Y/N (if no provided details)	
By:		By:			

Ken
 Oct. 15, 2007

L7.5-485

Water Sampling Parameters

Client: Victory Nickel Inc. Account: VIC300 Project: Minago

ALS-Vancouver Reference Quote: ALS-EQ07-480

ALS-Vancouver: Tel: (604) 253-4188 Fax: (604) 253-6700

Contacts: Brent Makeiki Cell: (604) 219-4228 Fax: (604) 253-6700

Bryan Mark (Acct. Manager) Email: david.mchainer@nunisco.ca E-mail: dmchainer@hotmail.com

prent.makeiki@alsenviro.com bryan.mark@alsenviro.com

Water Quality	Required Detection Limit (units are mg/L except as noted)	Water Quality	Sampling Parameters (units are mg/L except as noted)
---------------	---	---------------	--

Nitrate & Nitrite (used from 1:100 Dilution of sample preserved with H2SO4)	as low as possible	Nitrate (as N)	as low as possible
Nitrite (as N)	as low as possible	Nitrite (as N)	as low as possible
Ammonia and TKN:	0.005	Ammonia as N	0.005
Total Kjeldahl Nitrogen	0.050	Total Nitrogen (calculated)	0.05
Organic Carbon:	0.5	Total Organic Carbon	0.5
Dissolved Organic Carbon	0.5	Dissolved Organic Carbon	0.5
Cyanides:	0.0050	Weak Dissociable	0.0050
Radionuclides:	0.005 Bq/L	Radium-226	0.005 Bq/L
Dissolved Low Level Metals:	0.0005	Aluminum (Al)-Dissolved	0.0005
		Antimony (Sb)-Dissolved	0.0001
		Arsenic (As)-Dissolved	0.0001
		Barium (Ba)-Dissolved	0.0002
		Beryllium (Be)-Dissolved	0.0001
		Bismuth (Bi)-Dissolved	0.0005
		Boron (B)-Dissolved	0.008
		Cadmium (Cd)-Dissolved	0.0002
		Calcium (Ca)-Dissolved	0.05
		Chromium (Cr)-Dissolved	0.0002
		Cobalt (Co)-Dissolved	0.0002
		Copper (Cu)-Dissolved	0.0001
		Iron (Fe)-Dissolved	0.03
		Lead (Pb)-Dissolved	0.0005
		Lithium (Li)-Dissolved	0.002
		Magnesium (Mg)-Dissolved	0.005
		Manganese (Mn)-Dissolved	0.00005
		Mercury (Hg)-Dissolved	0.00005
		Molybdenum (Mo)-Dissolved	0.00005
		Nickel (Ni)-Dissolved	0.0005
		Phosphorus (P)-Dissolved	0.3
		Potassium (K)-Dissolved	0.05
		Selenium (Se)-Dissolved	0.0005
		Silicon (Si)-Dissolved	0.05
		Silver (Ag)-Dissolved	0.00001
		Sodium (Na)-Dissolved	0.05
		Strontium (Sr)-Dissolved	0.0001
		Thallium (Tl)-Dissolved	0.00005
		Tin (Sn)-Dissolved	0.00005
		Titanium (Ti)-Dissolved	0.01
		Uranium (U)-Dissolved	0.00001
		Vanadium (V)-Dissolved	0.0005
		Zinc (Zn)-Dissolved	0.0005

Total - Low Level Metals: 0.5 → Bottles

Dissolved Low Level Metals: 0.0005 → Bottle 4

0a26957

note: bot
Bottle 7 for old station
Bottle 6
Bottle 3

MINAGO PROJECT

COC # VIC300-2

Pag 1 of 1

Chain of Custody / Analytical Request Form
 Canada Toll Free: 1 800 668 9878
 www.alsglobal.com

LS69390

Report to: Dr. David McHaina Company: Victory Nickel Inc. Contact: #1802-80 Richmond Street Address: Toronto, Ont. M5H 1A4 Account: VIC300 Phone: (519) 241-9655 Fax: (416) 626-0890		Report Format / Distribution Regular Service (Default) Rush Service (2-3 Days) Priority Service (1 Day or ASAP) Emergency Service (<1 Day / Wkend) - Contact AL	
Invoice To: Company: same as above Contact: Address: Sample Phone: Fax:		Service Requested: Regular Service (Default) Rush Service (2-3 Days) Priority Service (1 Day or ASAP) Emergency Service (<1 Day / Wkend) - Contact AL	
Client / Project Information: Job #: Minago Project POI/AFE: Legal Site Description: Minago Project Quote #: ALS-EQ07-480		Analysis Request P P P P P P 1 - General Parameters 2 - Radium-226 3 - Weak Acid Dissociable Cyanide 4 - Diss. Low Level Metals 5 - Total Low Level Metals 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2 Highly Contaminated? Hazardous?	
ALS Contact: Bryan Mark Sampler (Initials): Karin Renken/Ken Bud Date: dd-mmm-yy Time: hh:mm Sample Type: (Select from drop-down list)		Indicate Bottles: Filtered / Preserved (F/P) -->	
Sample Identification (This description will appear on the report)		Special Instructions / Hazardous Details	
1 LSBBWR 1 - General Parameters 1 LSBBWR 2 - Radium-226 1 LSBBWR 3 - Weak Acid Dissociable Cyanide 1 LSBBWR 4 - Diss. Low Level Metals 1 LSBBWR 5 - Total Low Level Metals 1 LSBBWR 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2		X X X X X X	
Guidelines / Regulations		Temperature -7°C Samples Received in Good Condition? (Y/N) Y	
Relinquished By: Date & Time:		Received By: Date & Time:	
Relinquished By: Date & Time:		Received By: Date & Time:	

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.

Ken Renken
 Oct. 14, 2007

L7.5-486

MINAGO PROJECT

Chain of Custody / Analytical Request Form
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COC # VIC 300 -1

Page 1 of 1

LS69390

Report to: Dr. David Mchaina Company: Victory Nickel Inc. Contact: #1802-80 Richmond Street Address: Toronto, Ont. M5H 1A4 Account: VIC300 Phone: (519) 241-9655 Fax: (416) 626-0890		Report Format / Distribution Regular Service (Default) Rush Service (2-3 Days) Priority Service (1 Day or ASAP) Emergency Service (<1 Day / Weekend) - Contact AL	
Invoice To: Company: same as above Contact: Address: Sample: Phone:		Analysis Request P P P P P P P P 1 - General Parameters 2 - Radium-226 3 - Weak Acid Dissociable Cyanide 4 - Diss. Low Level Metals 5 - Total Low Level Metals 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO Highly Contaminated? Number of Containers	
Client / Project Information: Job #: Minago Project PO/AFE: Legal Site Description: Minago Project Quote #: ALS-EQ07-480		Service Requested: Regular Service (Default) Rush Service (2-3 Days) Priority Service (1 Day or ASAP) Emergency Service (<1 Day / Weekend) - Contact AL	
ALS Contact: Bryan Mark Karin Renken/Ken Bud (Initials):		Indicate Bottles: Filtered / Preserved (F/P) → →	
Lab Work Order # (lab use only)		Sampler Time Sample Type (Select from drop-down list)	
Sample Identification (This description will appear on the report)		Date dd-mm-yy	
1 WRALSB 1 - General Parameters 1 WRALSB 2 - Radium-226 1 WRALSB 3 - Weak Acid Dissociable Cyanide 1 WRALSB 4 - Diss. Low Level Metals 1 WRALSB 5 - Total Low Level Metals		Oct. 13, 2007 Oct. 13, 2007 Oct. 13, 2007 Oct. 13, 2007	
1 WRALSB 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2		Oct. 13, 2007	
Guidelines / Regulations			
Special Instructions / Hazardous Details			
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.			
Relinquished By:	Date & Time:	Received By:	Date & Time:
Relinquished By:	Date & Time:	Received By:	Date & Time:
Temperature		Samples Received in Good Condition? Y / N (if no provided details)	

L7.5-487

Ken Bud
 Oct. 14, 2007

MINAGO PROJECT

COC # VIC 300-4

Page of 1

Chain of Custody / Analytical Request Form
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L569390

Report to: Dr. David Mchalina Company: Victory Nickel Inc. Contact: #1802-80 Richmond Street Address: Toronto, Ont M5H 1A4 Phone: (519) 241-9655 Fax: (416) 626-0890 Invoice To:		Report Format / Distribution Email 1: dmchalina@hotmail.com Email 2:		Service Requested: <input type="checkbox"/> Regular Service (Default) <input type="checkbox"/> Rush Service (2-3 Days) <input type="checkbox"/> Priority Service (1 Day or ASAP) <input type="checkbox"/> Emergency Service (<1 Day / Wkend) - Contact ALS	
Client / Project Information: Job #: Minago Project PO/A/E: Legal Site Description: Minago Project Quote #: ALS-EQ07-480		Indicate Bottles: Filtered / Preserved (F/P) → → Sampler: Karin Renken/Ken Bud (initials):		Analysis Request P P P P P P P 1 - General Parameters 2 - Radium-226 3 - Weak Acid Dissociable Cyanide 4 - Diss. Low Level Metals 5 - Total Low Level Metals 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2 Highly Contaminated? Hazardous?	
ALS Contact: Bryan Mark Date: dd-mm-yy Time: hh:mm Sample Type: (Select from drop-down list)		Date: Oct. 14, 2007 Time: water Date: Oct. 14, 2007 Time: water Date: Oct. 14, 2007 Time: water Date: Oct. 14, 2007 Time: water Date: Oct. 14, 2007 Time: water		1 - General Parameters X 2 - Radium-226 X 3 - Weak Acid Dissociable Cyanide X 4 - Diss. Low Level Metals X 5 - Total Low Level Metals X 8 - TKN & NH3 X	
Sample Identification (This description will appear on the report) # MRW1 1 - General Parameters 1 MRW1 2 - Radium-226 1 MRW1 3 - Weak Acid Dissociable Cyanide 1 MRW1 4 - Diss. Low Level Metals 1 MRW1 5 - Total Low Level Metals 1 MRW1 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2		Special Instructions / Hazardous Details		Guidelines / Regulations	
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. Please fill in this form LEGIBLY.					
Relinquished By:		Received By:		Date & Time:	
Relinquished By:		Received By:		Date & Time:	
Temperature:		Sample Condition (lab use only):		Samples received in Good Condition? Y/N (if no provided details)	
6°C		OK		Y	

Kenken

Oct. 14, 2007

1569390

Report to: Dr. David McHaina		Report Format / Distribution		Service Requested:	
Company: Victory Nickel Inc.				Regular Service (Default)	
Contact: #1802-80 Richmond Street				Rush Service (2-3 Days)	
Address: Toronto, Ont. M5H 1A4		Email 1: dmchaina@hotmail.com		Priority Service (1 Day or ASAP)	
Account: VIC300		Email 2:		Emergency Service (<1 Day / Wkend) - Contact ALS	
Phone: (519) 241-9655		Fax: (416) 626-0890		Analysis Request	
Invoice To:		Indicate Bottles: Filtered / Preserved (FP) --->		P P P P P P P	
Company: same as above		Client / Project Information:		1 - General Parameters	
Contact:		Job #: Minago Project		2 - Radium-226	
Address:		PO/AFE:		3 - Weak Acid Dissociable Cyanide	
Sample:		Legal Site Description: Minago Project		4 - Diss. Low Level Metals	
Phone:		Quote #: ALS-EG07-480		5 - Total Low Level Metals	
Lab Work Order #		ALS		8 - TKN & NH3	
(lab use only)		Contact: Bryan Mark		and at 1:100 Dilution NO3 & NO2	
		Sampler (Initials): Karin Renken/Ken Bud		Highly Contaminated?	
		Date		Number of Containers	
		Time			
		Sample Type			
		(Select from drop-down list)			
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COC # VIC 300-11

Chain of Custody / Analytical Request Form
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MINAGO PROJECT

Page 1 of 1

LS69390

Report to: Dr. David McHaina Company: Victory Nickel Inc. Contact: #1802-80 Richmond Street Address: Toronto, Ont. M5H 1A4 Account: VIC300 Phone: (519) 241-9655 Fax: (416) 626-0890		Report Format / Distribution Regular Service (Default) Rush Service (2-3 Days) Priority Service (1 Day or ASAP) Emergency Service (<1 Day / Wkend) - Contact ALS	
Invoice To: Company: same as above Contact: Address: Sample Phone: Fax:		Analysis Request 1 - General Parameters 2 - Radium-226 3 - Weak Acid Dissociable Cyanide 4 - Diss. Low Level Metals 5 - Total Low Level Metals 6 - TKN & NH3 and at 1:100 Dilution NO3 & NO2 Highly Contaminated? Number of Containers	
Client / Project Information: Job #: Minago Project PO/AFE: Legal Site Description: Minago Project Quote #: ALS-EQ07-480		ALS Bryan Mark Karin Renken/Ken Bud (Initials):	
Lab Work Order # (lab use only)		ALS Bryan Mark Karin Renken/Ken Bud (Initials):	
Sample Identification (This description will appear on the report)		Time hh:mm	
Date dd-mmm-yy		Sample Type (Select from drop-down list)	
1 MRW2x 1 - General Parameters 1 MRW2x 2 - Radium-226 1 MRW2x 3 - Weak Acid Dissociable Cyanide 1 MRW2x 4 - Diss. Low Level Metals 1 MRW2x 5 - Total Low Level Metals		water water water water water	
1 MRW2x 8 - TKN & NH3 and at 1:100 Dilution NO3 & NO2		water	
Guidelines / Regulations		Special Instructions / Hazardous Details	
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.			
Relinquished By:	Date & Time:	Received By:	Date & Time:
Relinquished By:	Date & Time:	Received By:	Date & Time:
Temperature		Samples Received in Good Condition? Y/N (if no provided details)	

L7.5-493

Karin Renken
Oct. 18, 2007

APPENDIX L7.5-O

Certified Laboratory Reports for Surface Water Quality

March 2008 Results



Environmental Division

ANALYTICAL REPORT

VICTORY NICKEL INC.

ATTN: DR. DAVID MCHAINA

#1802 - 80 RICHMOND STREET WEST

TORONTO ON M5H 2A4

Reported On: 04-APR-08 06:17 PM

Revision: 1

Lab Work Order #: **L610409**

Date Received: **14-MAR-08**

Project P.O. #:

Job Reference: MINAGO PROJECT

Legal Site Desc:

CofC Numbers:

Other Information:

Comments: For some of the submitted water samples, the measured concentration of specific dissolved parameters is greater than the corresponding total parameters concentration. The explanation for these findings is one or a combination of the following:

- laboratory method variability;
- field sampling method variability;
- bias introduced during general handling, storage, transportation and/or analysis of the sample;
- field sample grab bias - where separate grab samples are processed to produce total and dissolved samples;
- field sample split bias - where total and dissolved parameters samples are produced from the same grab sample.

For further clarification on any of the above information, please contact your ALS account manager.

The analysis for samples labelled as Blank were confirmed by re-analysis.

Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Bryan Mark

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS Canada Ltd.
Part of the **ALS Laboratory Group**

1988 Triumph Street, Vancouver, BC V5L 1K5
Phone: +1 604 253 4188 Fax: +1 604 253 6700 www.alsglobal.com
A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L610409-1	L610409-2	L610409-3	L610409-4	L610409-5
		11-MAR-08	11-MAR-08	11-MAR-08	11-MAR-08	11-MAR-08
		HRW1	MRW1	WILLIAM RIVER	FILTER BLANK	SAMPLE OF DEIONIZED WATER
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	715	256	288	<0.50	<0.50
	Conductivity (uS/cm)	1170	467	469		
	pH (pH)	8.15	7.92	8.25		
	Total Dissolved Solids (mg/L)	739	281	238		
	Total Suspended Solids (mg/L)	8.0	5.0	<3.0		
	Turbidity (NTU)	3.94	7.32	1.69		
Anions and Nutrients	Ammonia as N (mg/L)	0.119	0.087	0.089		
	Acidity (as CaCO3) (mg/L)	<1.0	10.7	4.5		
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	703	272	284		
	Alkalinity, Carbonate (as CaCO3) (mg/L)	<1.0	<2.0	<2.0		
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	<1.0	<2.0	<2.0		
	Alkalinity, Total (as CaCO3) (mg/L)	703	272	284		
	Bromide (Br) (mg/L)	<0.050	<0.050	<0.050		
	Chloride (Cl) (mg/L)	11.1	4.27	1.15		
	Fluoride (F) (mg/L)	0.249	0.109	0.137		
	Sulfate (SO4) (mg/L)	10.9	1.83	3.72		
	Nitrate (as N) (mg/L)	0.92	0.83	<0.50		
	Nitrite (as N) (mg/L)	0.23	0.29	0.27		
	Total Kjeldahl Nitrogen (mg/L)	1.44	0.665	0.465		
	Total Nitrogen (mg/L)	2.59	1.79	0.73		
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	<0.0050		
Total Metals	Aluminum (Al)-Total (mg/L)	0.116	0.0904	0.0139		<0.0010
	Antimony (Sb)-Total (mg/L)	0.00111	0.000827	0.000851		0.000844
	Arsenic (As)-Total (mg/L)	0.00452	0.00144	0.000667		<0.000030
	Barium (Ba)-Total (mg/L)	0.0656	0.0298	0.0408		<0.000050
	Beryllium (Be)-Total (mg/L)	<0.00040	<0.00020	<0.00020		<0.00020
	Bismuth (Bi)-Total (mg/L)	<0.0010	<0.00050	<0.00050		<0.00050
	Boron (B)-Total (mg/L)	0.0681	0.0286	0.0191		0.0034
	Cadmium (Cd)-Total (mg/L)	<0.000034	<0.000017	<0.000017		<0.000017
	Calcium (Ca)-Total (mg/L)	142	56.0	37.6		<0.020
	Chromium (Cr)-Total (mg/L)	0.00062	0.00040	0.00018		0.00027
	Cobalt (Co)-Total (mg/L)	0.00022	0.00095	<0.00010		<0.00010
	Copper (Cu)-Total (mg/L)	0.00621	0.00045	0.00046		<0.00010
	Iron (Fe)-Total (mg/L)	0.099	1.89	0.036		<0.010
	Lead (Pb)-Total (mg/L)	0.00221	0.000080	0.000135		<0.000050
	Lithium (Li)-Total (mg/L)	0.018	0.0064	<0.0050		<0.0050
	Magnesium (Mg)-Total (mg/L)	81.6	29.2	46.6		0.0327
	Manganese (Mn)-Total (mg/L)	0.0854	0.973	0.00864		<0.000050

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L610409-6	L610409-7	Column added	
		Description			by Victory Nickel Inc.	
		Sampled Date	11-MAR-08	11-MAR-08	Concentrations	
		Sampled Time			in the Deionized	
		Client ID	FIELD BLANK	TRAVEL BLANK	Water at the time	
Grouping	Analyte				of preparation at	
WATER					ALS Winnipeg Lab	
Physical Tests	Hardness (as CaCO3) (mg/L)	<0.50	<0.50		<0.50	
	Conductivity (uS/cm)					
	pH (pH)					
	Total Dissolved Solids (mg/L)					
	Total Suspended Solids (mg/L)					
	Turbidity (NTU)					
Anions and Nutrients	Ammonia as N (mg/L)					
	Acidity (as CaCO3) (mg/L)					
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)					
	Alkalinity, Carbonate (as CaCO3) (mg/L)					
	Alkalinity, Hydroxide (as CaCO3) (mg/L)					
	Alkalinity, Total (as CaCO3) (mg/L)					
	Bromide (Br) (mg/L)					
	Chloride (Cl) (mg/L)					
	Fluoride (F) (mg/L)					
	Sulfate (SO4) (mg/L)					
	Nitrate (as N) (mg/L)					
	Nitrite (as N) (mg/L)					
	Total Kjeldahl Nitrogen (mg/L)					
	Total Nitrogen (mg/L)					
Cyanides	Cyanide, Weak Acid Diss (mg/L)					
Total Metals	Aluminum (Al)-Total (mg/L)	<0.0010	<0.0010		<0.005	
	Antimony (Sb)-Total (mg/L)	0.000836	0.000798		<0.001	
	Arsenic (As)-Total (mg/L)	<0.000030	<0.000030		<0.0005	
	Barium (Ba)-Total (mg/L)	<0.000050	<0.000050		<0.0003	
	Beryllium (Be)-Total (mg/L)	<0.00020	<0.00020		<0.001	
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050		<0.0001	
	Boron (B)-Total (mg/L)	0.0019	0.0018		<0.03	
	Cadmium (Cd)-Total (mg/L)	<0.000017	<0.000017		<0.00002	
	Calcium (Ca)-Total (mg/L)	0.180	<0.020		<0.1	
	Chromium (Cr)-Total (mg/L)	<0.00010	<0.00010		<0.001	
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010		<0.0002	
	Copper (Cu)-Total (mg/L)	<0.00010	<0.00010		<0.001	
	Iron (Fe)-Total (mg/L)	<0.010	<0.010		<0.05	
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050		<0.0005	
	Lithium (Li)-Total (mg/L)	<0.0050	<0.0050		<0.01	
	Magnesium (Mg)-Total (mg/L)	<0.0050	<0.0050		<0.01	
	Manganese (Mn)-Total (mg/L)	<0.000050	<0.000050		<0.0003	

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L610409-1	L610409-2	L610409-3	L610409-4	L610409-5
		Description					
		Sampled Date	11-MAR-08	11-MAR-08	11-MAR-08	11-MAR-08	11-MAR-08
		Sampled Time					
		Client ID	HRW1	MRW1	WILLIAM RIVER	FILTER BLANK	SAMPLE OF DEIONIZED WATER
Grouping	Analyte						
WATER							
Total Metals	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00067	<0.000050	0.000134	<0.000050	<0.000050	<0.000050
	Nickel (Ni)-Total (mg/L)	0.00215	0.00054	0.00052	<0.00010	<0.00010	<0.00010
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)	5.43	2.06	1.43	<0.050	<0.050	<0.050
	Selenium (Se)-Total (mg/L)	0.00036	0.00012	<0.00010	<0.00010	<0.00010	<0.00010
	Silicon (Si)-Total (mg/L)	18.8	8.16	4.44	<0.050	<0.050	<0.050
	Silver (Ag)-Total (mg/L)	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	21.2	10.4	2.40	<0.010	<0.010	<0.010
	Strontium (Sr)-Total (mg/L)	0.264	0.0965	0.0457	<0.00010	<0.00010	<0.00010
	Thallium (Tl)-Total (mg/L)	<0.00010	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Tin (Sn)-Total (mg/L)	0.00022	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/L)	0.000977	0.000114	0.000332	<0.000010	<0.000010	<0.000010
	Vanadium (V)-Total (mg/L)	0.00440	0.000458	0.000172	<0.000050	<0.000050	<0.000050
	Zinc (Zn)-Total (mg/L)	0.0033	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0447	0.0044	<0.0010	<0.0010	<0.0010	<0.0010
	Antimony (Sb)-Dissolved (mg/L)	0.00101	0.00114	0.000959	0.000961	0.000961	0.000961
	Arsenic (As)-Dissolved (mg/L)	0.00456	0.00135	0.000659	<0.000030	<0.000030	<0.000030
	Barium (Ba)-Dissolved (mg/L)	0.0630	0.0278	0.0394	<0.000050	<0.000050	<0.000050
	Beryllium (Be)-Dissolved (mg/L)	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Bismuth (Bi)-Dissolved (mg/L)	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	0.0692	0.0284	0.0197	0.0031	0.0031	0.0031
	Cadmium (Cd)-Dissolved (mg/L)	<0.000034	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017
	Calcium (Ca)-Dissolved (mg/L)	151	54.2	37.4	<0.020	<0.020	<0.020
	Chromium (Cr)-Dissolved (mg/L)	0.00091	0.00049	0.00018	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	<0.00020	0.00084	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00630	0.00021	0.00018	<0.00010	<0.00010	<0.00010
	Iron (Fe)-Dissolved (mg/L)	0.027	1.19	<0.010	<0.010	<0.010	<0.010
	Lead (Pb)-Dissolved (mg/L)	0.00212	0.000138	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.018	0.0061	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Dissolved (mg/L)	82.1	29.3	47.3	0.0081	0.0081	0.0081
	Manganese (Mn)-Dissolved (mg/L)	0.0813	0.906	0.00223	<0.000050	<0.000050	<0.000050
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00067	<0.000050	0.000124	<0.000050	<0.000050	<0.000050
	Nickel (Ni)-Dissolved (mg/L)	0.00204	0.00041	0.00013	<0.00010	<0.00010	<0.00010
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	5.51	1.97	1.41	<0.050	<0.050	<0.050
	Selenium (Se)-Dissolved (mg/L)	0.00048	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L610409-6	L610409-7	Column added	
		Description			by Victory Nickel Inc.	
		Sampled Date	11-MAR-08	11-MAR-08	Concentrations	
		Sampled Time			in the Deionized	
		Client ID	FIELD BLANK	TRAVEL BLANK	Water at the time	
Grouping	Analyte				of preparation at	
WATER					ALS Winnipeg Lab	
Total Metals	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.0001		
	Molybdenum (Mo)-Total (mg/L)	<0.000050	<0.000050	<0.0002		
	Nickel (Ni)-Total (mg/L)	<0.00010	<0.00010	<0.002		
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.05		
	Potassium (K)-Total (mg/L)	<0.050	<0.050	<0.1		
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00010	<0.001		
	Silicon (Si)-Total (mg/L)	<0.050	<0.050	<0.3		
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.0001		
	Sodium (Na)-Total (mg/L)	<0.010	<0.010	<0.03		
	Strontium (Sr)-Total (mg/L)	<0.00010	<0.00010	<0.0001		
	Thallium (Tl)-Total (mg/L)	<0.000050	<0.000050	<0.0001		
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.0006		
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	<0.0009		
	Uranium (U)-Total (mg/L)	<0.000010	<0.000010	<0.0001		
	Vanadium (V)-Total (mg/L)	<0.000050	<0.000050	<0.001		
	Zinc (Zn)-Total (mg/L)	<0.0010	<0.0010	<0.01		
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)			<0.001		
	Antimony (Sb)-Dissolved (mg/L)			<0.001		
	Arsenic (As)-Dissolved (mg/L)			<0.0005		
	Barium (Ba)-Dissolved (mg/L)			<0.0003		
	Beryllium (Be)-Dissolved (mg/L)			<0.001		
	Bismuth (Bi)-Dissolved (mg/L)			<0.0003		
	Boron (B)-Dissolved (mg/L)			<0.02		
	Cadmium (Cd)-Dissolved (mg/L)			<0.00002		
	Calcium (Ca)-Dissolved (mg/L)			<0.05		
	Chromium (Cr)-Dissolved (mg/L)			<0.001		
	Cobalt (Co)-Dissolved (mg/L)			<0.0002		
	Copper (Cu)-Dissolved (mg/L)			<0.0004		
	Iron (Fe)-Dissolved (mg/L)			<0.01		
	Lead (Pb)-Dissolved (mg/L)			<0.0001		
	Lithium (Li)-Dissolved (mg/L)			<0.005		
	Magnesium (Mg)-Dissolved (mg/L)			<0.01		
	Manganese (Mn)-Dissolved (mg/L)			<0.0002		
	Mercury (Hg)-Dissolved (mg/L)			<0.00005		
	Molybdenum (Mo)-Dissolved (mg/L)			<0.0001		
	Nickel (Ni)-Dissolved (mg/L)			<0.0002		
	Phosphorus (P)-Dissolved (mg/L)			<0.02		
	Potassium (K)-Dissolved (mg/L)			<0.05		
	Selenium (Se)-Dissolved (mg/L)			<0.001		

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L610409-1	L610409-2	L610409-3	L610409-4	L610409-5
		Description					
		Sampled Date	11-MAR-08	11-MAR-08	11-MAR-08	11-MAR-08	11-MAR-08
		Sampled Time					
		Client ID	HRW1	MRW1	WILLIAM RIVER	FILTER BLANK	SAMPLE OF DEIONIZED WATER
Grouping	Analyte						
WATER							
Dissolved Metals	Silicon (Si)-Dissolved (mg/L)		18.3	7.80	4.35	<0.050	
	Silver (Ag)-Dissolved (mg/L)		<0.000020	<0.000010	<0.000010	<0.000010	
	Sodium (Na)-Dissolved (mg/L)		21.3	10.3	2.41	<0.010	
	Strontium (Sr)-Dissolved (mg/L)		0.268	0.0949	0.0446	<0.00010	
	Thallium (Tl)-Dissolved (mg/L)		<0.00010	<0.000050	<0.000050	<0.000050	
	Tin (Sn)-Dissolved (mg/L)		0.00031	<0.00010	<0.00010	<0.00010	
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	
	Uranium (U)-Dissolved (mg/L)		0.00102	0.000106	0.000337	<0.000010	
	Vanadium (V)-Dissolved (mg/L)		0.00428	0.000259	0.000124	<0.000050	
	Zinc (Zn)-Dissolved (mg/L)		0.0036	<0.0010	<0.0010	<0.0010	
Organic Parameters	Total Organic Carbon (mg/L)		35.4	17.9	8.38		
Miscellaneous-No group	Dissolved Organic Carbon (mg/L)		35.1	17.1	8.09		

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L610409-6	L610409-7	Column added	
		Description			by Victory Nickel Inc.	
		Sampled Date	11-MAR-08	11-MAR-08	Concentrations	
		Sampled Time			in the Deionized	
		Client ID	FIELD BLANK	TRAVEL BLANK	Water at the time	
Grouping	Analyte				of preparation at	
WATER					ALS Winnipeg Lab	
Dissolved Metals	Silicon (Si)-Dissolved (mg/L)				<0.2	
	Silver (Ag)-Dissolved (mg/L)				<0.0001	
	Sodium (Na)-Dissolved (mg/L)				<0.02	
	Strontium (Sr)-Dissolved (mg/L)				<0.0001	
	Thallium (Tl)-Dissolved (mg/L)				<0.0001	
	Tin (Sn)-Dissolved (mg/L)				<0.0003	
	Titanium (Ti)-Dissolved (mg/L)				<0.0005	
	Uranium (U)-Dissolved (mg/L)				<0.0001	
	Vanadium (V)-Dissolved (mg/L)				<0.001	
	Zinc (Zn)-Dissolved (mg/L)				<0.005	
Organic Parameters	Total Organic Carbon (mg/L)					
Miscellaneous-No group	Dissolved Organic Carbon (mg/L)					

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-PCT-VA	Water	Alkalinity by Auto. Titration	APHA 2320 "Alkalinity"
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
ALK-SCR-VA	Water	Alkalinity by colour or titration	EPA 310.2 OR APHA 2320
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method. OR This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
CARBONS-DOC-VA	Water	Dissolved organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colormetric	APHA 4500-CN "Cyanide"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.</p>			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
<p>This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.</p>			
FE-DIS-LOW-ICP-VA	Water	Dissolved Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
FE-TOT-LOW-ICP-VA	Water	Total Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
<p>Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.</p>			
HG-DIS-LOW-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS(Low)	EPA SW-846 3005A & EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
HG-TOT-LOW-CVAFS-VA	Water	Total Mercury in Water by CVAFS(Low)	EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-DIS-ULTRA-MS-VA	Water	Diss. Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-TOT-ULTRA-MS-VA	Water	Total Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
<p>This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p>			
TDS-VA	Water	Total Dissolved Solids by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.</p>			
TKN-COL-VA	Water	Total Kjeldahl Nitrogen by Auto. Colour	APHA 4500-Norg (TKN)
<p>This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.</p>			
TN-CALC-VA	Water	TN by Calc (TKN + N+N)	BC MOE LABORATORY MANUAL (2005)
<p>Total Nitrogen is determined by calculation by suming TKN and the NO2 and NO3 results.</p>			
TSS-VA	Water	Solids by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.</p>			
TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
<p>This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:			
Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

SRC ANALYTICAL**L7.5-507**

Apr 03, 2008

422 Downey Road

Saskatoon, Saskatchewan, Canada

S7N 4N1

(306) 933-6932 or 1-800-240-8808

Fax: (306) 933-7922

ALS

Aurora Laboratory Services Ltd.

1988 Triumph Street

Vancouver, British Columbia V5L 1K5

Attn: ALS ED REPORTING

Page 1 of 3

Sample # **8267**
Date Sampled: **Mar 11, 2008**
Sample Matrix: **WATER**
Description: **L610409-1 HRW1**

Client PO #: **ALS17273**
Date Received: **Mar 17, 2008**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.009	0.006	Apr 02, 2008

Sample # **8268**
Date Sampled: **Mar 11, 2008**
Sample Matrix: **WATER**
Description: **L610409-2 MRW1**

Client PO #: **ALS17273**
Date Received: **Mar 17, 2008**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.006	0.006	Apr 02, 2008

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-509**

Apr 03, 2008

ALS, Aurora Laboratory Services Ltd.

Page 3 of 3

Sample # **8269**
Date Sampled: **Mar 11, 2008**
Sample Matrix: **WATER**
Description: **L610409-3 WLLIAM RIVER**

Client PO #: **ALS17273**
Date Received: **Mar 17, 2008**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.01	0.006	Apr 02, 2008

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Total Metals											
L610409-1	Water	WG741075-5	Aluminum (Al)-Total	0.116	0.113	mg/L	2.8	20	-	-	-
L610409-1	Water	WG741075-5	Antimony (Sb)-Total	0.00111	0.00114	mg/L	3.1	20	-	-	-
L610409-1	Water	WG741075-5	Arsenic (As)-Total	0.00452	0.00471	mg/L	4.2	20	-	-	-
L610409-1	Water	WG741075-5	Barium (Ba)-Total	0.0656	0.0666	mg/L	1.5	20	-	-	-
L610409-1	Water	WG741075-5	Beryllium (Be)-Total	<0.00040	<0.00040	mg/L	N/A	20	-	-	RPD-NA
L610409-1	Water	WG741075-5	Bismuth (Bi)-Total	<0.0010	<0.0010	mg/L	N/A	20	-	-	RPD-NA
L610409-1	Water	WG741075-5	Boron (B)-Total	0.0681	0.0708	mg/L	3.9	20	-	-	-
L610409-1	Water	WG741075-5	Cadmium (Cd)-Total	<0.000034	<0.000034	mg/L	N/A	20	-	-	RPD-NA
L610409-1	Water	WG741075-5	Calcium (Ca)-Total	142	160	mg/L	12	20	-	-	-
L610409-1	Water	WG741075-5	Chromium (Cr)-Total	0.00062	0.00085	mg/L	-	-	0.00023	0.0008	J
L610409-1	Water	WG741075-5	Cobalt (Co)-Total	0.00022	0.00022	mg/L	-	-	0.00001	0.0008	J
L610409-1	Water	WG741075-5	Copper (Cu)-Total	0.00621	0.00646	mg/L	3.9	20	-	-	-
L610409-1	Water	WG741075-5	Iron (Fe)-Total	0.099	0.108	mg/L	-	-	0.010	0.04	J
L610409-1	Water	WG741075-5	Lead (Pb)-Total	0.00221	0.00228	mg/L	3.4	20	-	-	-
L610409-1	Water	WG741075-5	Lithium (Li)-Total	0.018	0.019	mg/L	-	-	0.001	0.04	J
L610409-1	Water	WG741075-5	Magnesium (Mg)-Total	81.6	85.1	mg/L	4.2	20	-	-	-
L610409-1	Water	WG741075-5	Manganese (Mn)-Total	0.0854	0.0887	mg/L	3.8	20	-	-	-
L610409-1	Water	WG741075-5	Molybdenum (Mo)-Total	0.00067	0.00072	mg/L	Report To	-	0.00005	0.0004	J
L610409-1	Water	WG741075-5	Nickel (Ni)-Total	0.00215	0.00218	mg/L	1.4	20	-	-	-
L610409-1	Water	WG741075-5	Phosphorus (P)-Total	<0.30	<0.30	mg/L	N/A	20	-	-	RPD-NA
L610409-1	Water	WG741075-5	Potassium (K)-Total	5.43	5.73	mg/L	5.3	20	-	-	-
L610409-1	Water	WG741075-5	Selenium (Se)-Total	0.00036	0.00035	mg/L	-	-	0.00002	0.0008	J
L610409-1	Water	WG741075-5	Silicon (Si)-Total	18.8	19.1	mg/L	1.1	20	-	-	-
L610409-1	Water	WG741075-5	Silver (Ag)-Total	<0.000020	<0.000020	mg/L	N/A	20	-	-	RPD-NA
L610409-1	Water	WG741075-5	Sodium (Na)-Total	21.2	22.2	mg/L	4.6	20	-	-	-
L610409-1	Water	WG741075-5	Strontium (Sr)-Total	0.264	0.279	mg/L	5.4	20	-	-	-
L610409-1	Water	WG741075-5	Thallium (Tl)-Total	<0.00010	<0.00010	mg/L	N/A	20	-	-	RPD-NA
L610409-1	Water	WG741075-5	Tin (Sn)-Total	0.00022	0.00023	mg/L	-	-	0.00001	0.0008	J
L610409-1	Water	WG741075-5	Titanium (Ti)-Total	0.010	0.011	mg/L	-	-	0.001	0.04	J
L610409-1	Water	WG741075-5	Uranium (U)-Total	0.000977	0.000995	mg/L	1.8	20	-	-	-
L610409-1	Water	WG741075-5	Vanadium (V)-Total	0.00440	0.00462	mg/L	4.9	20	-	-	-
L610409-1	Water	WG741075-5	Zinc (Zn)-Total	0.0033	0.0035	mg/L	-	-	0.0002	0.008	J
L610409-2	Water	WG742514-7	Mercury (Hg)-Total	<0.000010	<0.000010	mg/L	N/A	20	-	-	RPD-NA

L7.5-510

QUALITY CONTROL RESULTS

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Physical Tests										
Water	CRM	pH	WG741721-8	VA-PH7-BUF	7.01	7.00	pH	7.01	6.97-7.03	
Water	CRM	Turbidity	WG741993-4	VA-TURB-SPK-8	8.14	8.00	NTU	102	85-115	
Water	CRM	Turbidity	WG741993-5	VA-TURB-SPK-8	8.05	8.00	NTU	101	85-115	
Water	CRM	Turbidity	WG741993-6	VA-TURB-SPK-8	8.06	8.00	NTU	101	85-115	
Water	CRM	Total Suspended Solids	WG743067-2	VA-TSS-INFUS-75	81.0	75.0	mg/L	108	80-120	
Water	CRM	Total Suspended Solids	WG743067-4	VA-TSS-INFUS-75	74.0	75.0	mg/L	99	80-120	
Water	CRM	Total Suspended Solids	WG743067-6	VA-TSS-INFUS-75	67.0	75.0	mg/L	89	80-120	
Water	CRM	Total Suspended Solids	WG743067-8	VA-TSS-INFUS-75	70.0	75.0	mg/L	93	80-120	
Water	CRM	Total Dissolved Solids	WG743074-2	VA-TDS-INFUS-425	379	425	mg/L	89	88-112	
Water	CRM	Total Dissolved Solids	WG743074-4	VA-TDS-INFUS-425	376	425	mg/L	88	88-112	
Water	CRM	Total Dissolved Solids	WG743074-6	VA-TDS-INFUS-425	408	425	mg/L	96	88-112	
Water	CRM	Total Dissolved Solids	WG743074-8	VA-TDS-INFUS-425	403	425	mg/L	95	88-112	
Water	CRM	Conductivity	WG741721-10	VA-EC-PCT-CONTROL	149	147	uS/cm	101	90-110	
Water	MB	Conductivity	WG741721-1		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG741721-2		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG741721-3		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG741721-4		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG741721-5		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG741721-6		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG741721-7		<2.0	<2	uS/cm	-	2	
Water	MB	Turbidity	WG741993-1		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG741993-2		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG741993-3		<0.10	<0.1	NTU	-	0.1	
Water	MB	Total Suspended Solids	WG743067-1		<3.0	<3	mg/L	-	3	
Water	MB	Total Suspended Solids	WG743067-3		<3.0	<3	mg/L	-	3	
Water	MB	Total Suspended Solids	WG743067-5		<3.0	<3	mg/L	-	3	
Water	MB	Total Suspended Solids	WG743067-7		<3.0	<3	mg/L	-	3	
Water	MB	Total Dissolved Solids	WG743074-1		<10	<10	mg/L	-	10	
Water	MB	Total Dissolved Solids	WG743074-3		<10	<10	mg/L	-	10	
Water	MB	Total Dissolved Solids	WG743074-5		<10	<10	mg/L	-	10	
Water	MB	Total Dissolved Solids	WG743074-7		<10	<10	mg/L	-	10	
Anions and Nutrients										
Water	CRM	Bromide (Br)	WG741950-2	VA-IC-IVA2-ION23110	0.930	0.999	mg/L	93	90-110	
Water	CRM	Chloride (Cl)	WG741950-2	VA-IC-IVA2-ION23110	49.4	50.2	mg/L	98	94-106	
Water	CRM	Fluoride (F)	WG741950-2	VA-IC-IVA2-ION23110	1.02	0.997	mg/L	102	93-107	
Water	CRM	Sulfate (SO4)	WG741950-2	VA-IC-IVA2-ION23110	49.6	50.2	mg/L	99	93-107	
Water	CRM	Nitrate (as N)	WG741950-2	VA-IC-IVA2-ION23110	0.238	0.251	mg/L	95	91-109	
Water	CRM	Nitrite (as N)	WG741950-2	VA-IC-IVA2-ION23110	0.146	0.150	mg/L	97	91-109	
Water	CRM	Ammonia as N	WG741994-8	VA-SPXNUT-22-16	3.79	3.84	mg/L	99	86-114	
Water	CRM	Ammonia as N	WG741994-9	VA-SPXNUT-22-16	3.87	3.84	mg/L	101	86-114	
Water	CRM	Alkalinity, Total (as CaCO3)	WG742809-7	VA-ALK-PCT-CONTROL	51.6	50.0	mg/L	103	88-112	
Water	CRM	Acidity (as CaCO3)	WG743167-8	VA-ACY-CONTROL	51.5	50.0	mg/L	103	85-115	
Water	CRM	Total Kjeldahl Nitrogen	WG743431-4	VA-TKN-CSPK1	1.06	1.00	mg/L	106	85-115	
Water	CRM	Total Kjeldahl Nitrogen	WG743431-5	VA-TKN-CSPK1	1.00	1.00	mg/L	100	85-115	
Water	CRM	Bromide (Br)	WG741950-10	VA-IC-IVA2-ION23110	0.951	0.999	mg/L	95	90-110	
Water	CRM	Chloride (Cl)	WG741950-10	VA-IC-IVA2-ION23110	50.3	50.2	mg/L	100	94-106	
Water	CRM	Fluoride (F)	WG741950-10	VA-IC-IVA2-ION23110	1.03	0.997	mg/L	103	93-107	
Water	CRM	Sulfate (SO4)	WG741950-10	VA-IC-IVA2-ION23110	50.4	50.2	mg/L	100	93-107	
Water	CRM	Nitrate (as N)	WG741950-10	VA-IC-IVA2-ION23110	0.243	0.251	mg/L	97	91-109	
Water	CRM	Nitrite (as N)	WG741950-10	VA-IC-IVA2-ION23110	0.149	0.150	mg/L	99	91-109	
Water	MB	Alkalinity, Total (as CaCO3)	WG741904-3		<2.0	<2	mg/L	-		
Water	MB	Alkalinity, Total (as CaCO3)	WG741904-8		<2.0	<2	mg/L	-		
Water	MB	Bromide (Br)	WG741950-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG741950-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG741950-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG741950-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG741950-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG741950-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG741950-4		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG741950-4		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG741950-4		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG741950-4		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG741950-4		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG741950-4		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG741950-6		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG741950-6		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG741950-6		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG741950-6		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG741950-6		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG741950-6		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG741950-8		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG741950-8		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG741950-8		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG741950-8		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG741950-8		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG741950-8		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG741950-9		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG741950-9		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG741950-9		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG741950-9		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG741950-9		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG741950-9		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Ammonia as N	WG741994-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Ammonia as N	WG741994-2		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Ammonia as N	WG741994-3		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Ammonia as N	WG741994-4		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Ammonia as N	WG741994-5		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Ammonia as N	WG741994-6		<0.020	<0.02	mg/L	-	0.02	

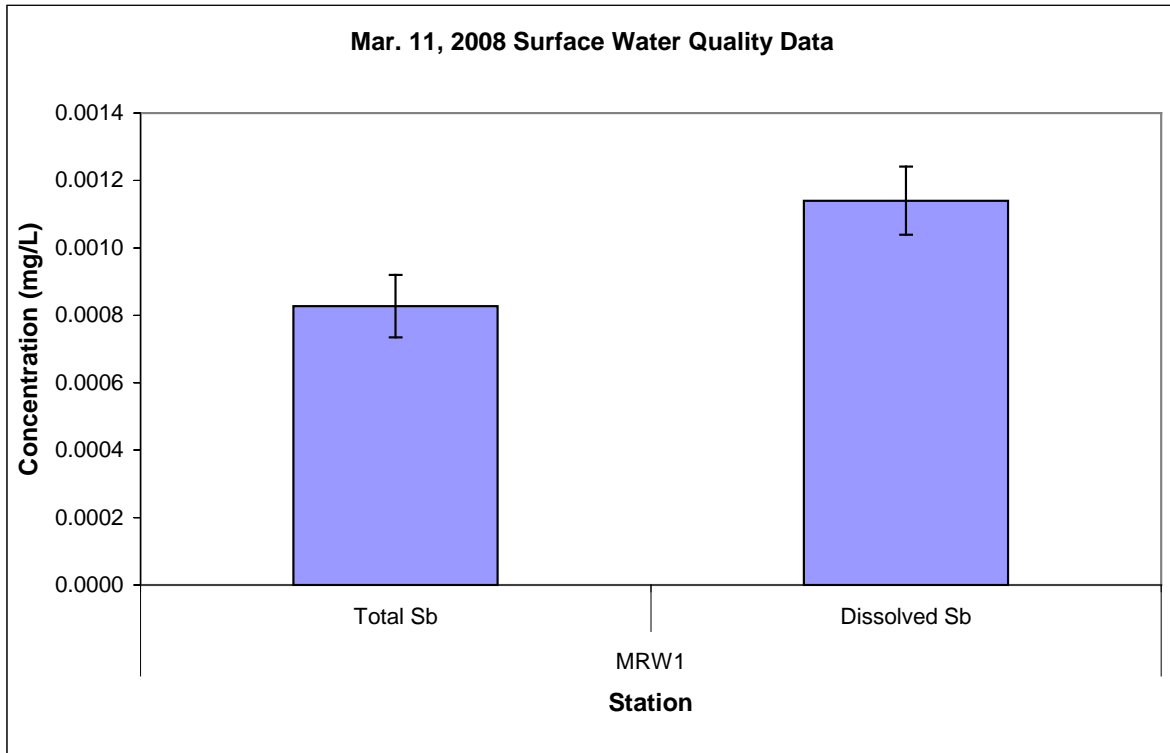
QUALITY CONTROL RESULTS

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Water	MB	Ammonia as N	WG741994-7		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Total Kjeldahl Nitrogen	WG743431-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Total Kjeldahl Nitrogen	WG743431-2		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Total Kjeldahl Nitrogen	WG743431-3		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Alkalinity, Total (as CaCO3)	WG741904-10		<2.0	<2	mg/L	-		
Water	MB	Alkalinity, Total (as CaCO3)	WG741904-12		<2.0	<2	mg/L	-		
Water	MB	Alkalinity, Total (as CaCO3)	WG741904-14		<2.0	<2	mg/L	-		
Water	MB	Alkalinity, Total (as CaCO3)	WG741904-16		<2.0	<2	mg/L	-		
Water	MB	Alkalinity, Total (as CaCO3)	WG741904-18		<2.0	<2	mg/L	-		
Water	MB	Alkalinity, Total (as CaCO3)	WG741904-20		<2.0	<2	mg/L	-		
Cyanides										
Water	MB	Cyanide, Weak Acid Diss	WG744986-1		<0.0050	<0.005	mg/L	-	0.005	
Total Metals										
Water	CRM	Aluminum (Al)-Total	WG741075-3	VA-HIGH-WATRM	2.00	2.00	mg/L	100	90-110	
Water	CRM	Antimony (Sb)-Total	WG741075-3	VA-HIGH-WATRM	0.902	1.00	mg/L	90	90-110	
Water	CRM	Arsenic (As)-Total	WG741075-3	VA-HIGH-WATRM	0.977	1.00	mg/L	98	90-110	
Water	CRM	Barium (Ba)-Total	WG741075-3	VA-HIGH-WATRM	0.258	0.250	mg/L	103	90-110	
Water	CRM	Beryllium (Be)-Total	WG741075-3	VA-HIGH-WATRM	0.0954	0.100	mg/L	95	90-110	
Water	CRM	Bismuth (Bi)-Total	WG741075-3	VA-HIGH-WATRM	0.922	1.00	mg/L	92	90-110	
Water	CRM	Boron (B)-Total	WG741075-3	VA-HIGH-WATRM	0.893	1.00	mg/L	89	85-115	
Water	CRM	Cadmium (Cd)-Total	WG741075-3	VA-HIGH-WATRM	0.101	0.100	mg/L	101	90-110	
Water	CRM	Calcium (Ca)-Total	WG741075-3	VA-HIGH-WATRM	49.4	50.0	mg/L	99	85-115	
Water	CRM	Chromium (Cr)-Total	WG741075-3	VA-HIGH-WATRM	0.245	0.250	mg/L	98	90-110	
Water	CRM	Cobalt (Co)-Total	WG741075-3	VA-HIGH-WATRM	0.247	0.250	mg/L	99	90-110	
Water	CRM	Copper (Cu)-Total	WG741075-3	VA-HIGH-WATRM	0.245	0.250	mg/L	98	90-110	
Water	CRM	Iron (Fe)-Total	WG741075-3	VA-HIGH-WATRM	0.986	1.00	mg/L	99	90-110	
Water	CRM	Lead (Pb)-Total	WG741075-3	VA-HIGH-WATRM	0.506	0.500	mg/L	101	90-110	
Water	CRM	Lithium (Li)-Total	WG741075-3	VA-HIGH-WATRM	0.25	0.25	mg/L	101	90-110	
Water	CRM	Magnesium (Mg)-Total	WG741075-3	VA-HIGH-WATRM	42.9	50.0	mg/L	86	85-115	
Water	CRM	Manganese (Mn)-Total	WG741075-3	VA-HIGH-WATRM	0.244	0.250	mg/L	98	90-110	
Water	CRM	Molybdenum (Mo)-Total	WG741075-3	VA-HIGH-WATRM	0.251	0.250	mg/L	100	90-110	
Water	CRM	Nickel (Ni)-Total	WG741075-3	VA-HIGH-WATRM	0.491	0.500	mg/L	98	90-110	
Water	CRM	Phosphorus (P)-Total	WG741075-3	VA-HIGH-WATRM	2.53	2.50	mg/L	101	90-110	
Water	CRM	Potassium (K)-Total	WG741075-3	VA-HIGH-WATRM	49.0	50.0	mg/L	98	85-115	
Water	CRM	Selenium (Se)-Total	WG741075-3	VA-HIGH-WATRM	1.00	1.00	mg/L	100	90-110	
Water	CRM	Silicon (Si)-Total	WG741075-3	VA-HIGH-WATRM	1.02	1.00	mg/L	102	90-110	
Water	CRM	Silver (Ag)-Total	WG741075-3	VA-HIGH-WATRM	0.0992	0.100	mg/L	99	90-110	
Water	CRM	Sodium (Na)-Total	WG741075-3	VA-HIGH-WATRM	49.3	50.0	mg/L	99	85-115	
Water	CRM	Strontium (Sr)-Total	WG741075-3	VA-HIGH-WATRM	0.247	0.250	mg/L	99	90-110	
Water	CRM	Thallium (Tl)-Total	WG741075-3	VA-HIGH-WATRM	0.958	1.00	mg/L	96	85-115	
Water	CRM	Tin (Sn)-Total	WG741075-3	VA-HIGH-WATRM	0.530	0.500	mg/L	106	90-110	
Water	CRM	Titanium (Ti)-Total	WG741075-3	VA-HIGH-WATRM	0.262	0.250	mg/L	105	90-110	
Water	CRM	Uranium (U)-Total	WG741075-3	VA-HIGH-WATRM	0.00495	0.00500	mg/L	99	90-110	
Water	CRM	Vanadium (V)-Total	WG741075-3	VA-HIGH-WATRM	0.492	0.500	mg/L	98	90-110	
Water	CRM	Zinc (Zn)-Total	WG741075-3	VA-HIGH-WATRM	0.511	0.500	mg/L	102	85-115	
Water	CRM	Mercury (Hg)-Dissolved	WG742514-2	VA-HG-WATRM	0.000099	0.000100	mg/L	99	88-112	
Water	CRM	Mercury (Hg)-Total	WG742514-2	VA-HG-WATRM	0.000099	0.000100	mg/L	99	88-112	
Water	MB	Aluminum (Al)-Total	WG741075-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Antimony (Sb)-Total	WG741075-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Arsenic (As)-Total	WG741075-1		<0.000030	<0.00003	mg/L	-	0.00003	
Water	MB	Barium (Ba)-Total	WG741075-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Beryllium (Be)-Total	WG741075-1		<0.00020	<0.0002	mg/L	-	0.0002	
Water	MB	Bismuth (Bi)-Total	WG741075-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Boron (B)-Total	WG741075-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Cadmium (Cd)-Total	WG741075-1		<0.000017	<0.000017	mg/L	-	0.000017	
Water	MB	Calcium (Ca)-Total	WG741075-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Chromium (Cr)-Total	WG741075-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Cobalt (Co)-Total	WG741075-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Copper (Cu)-Total	WG741075-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Iron (Fe)-Total	WG741075-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Lead (Pb)-Total	WG741075-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Lithium (Li)-Total	WG741075-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Magnesium (Mg)-Total	WG741075-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Manganese (Mn)-Total	WG741075-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Molybdenum (Mo)-Total	WG741075-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Nickel (Ni)-Total	WG741075-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Phosphorus (P)-Total	WG741075-1		<0.30	<0.3	mg/L	-	0.3	
Water	MB	Potassium (K)-Total	WG741075-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Silicon (Si)-Total	WG741075-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Silver (Ag)-Total	WG741075-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Sodium (Na)-Total	WG741075-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Strontium (Sr)-Total	WG741075-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Thallium (Tl)-Total	WG741075-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Tin (Sn)-Total	WG741075-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Titanium (Ti)-Total	WG741075-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Uranium (U)-Total	WG741075-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Vanadium (V)-Total	WG741075-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Zinc (Zn)-Total	WG741075-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Mercury (Hg)-Dissolved	WG742514-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Mercury (Hg)-Total	WG742514-1		<0.000010	<0.00001	mg/L	-	0.00001	
Dissolved Metals										
Water	CRM	Aluminum (Al)-Dissolved	WG741050-5	VA-HIGH-WATRM	1.98	2.00	mg/L	99	90-110	
Water	CRM	Antimony (Sb)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.899	1.00	mg/L	90	90-110	
Water	CRM	Barium (Ba)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.255	0.250	mg/L	102	90-110	
Water	CRM	Beryllium (Be)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.0901	0.100	mg/L	90	90-110	
Water	CRM	Bismuth (Bi)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.960	1.00	mg/L	96	90-110	
Water	CRM	Cadmium (Cd)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.0958	0.100	mg/L	96	90-110	
Water	CRM	Calcium (Ca)-Dissolved	WG741050-5	VA-HIGH-WATRM	48.7	50.0	mg/L	97	85-115	

QUALITY CONTROL RESULTS

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Water	CRM	Chromium (Cr)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.245	0.250	mg/L	98	90-110	
Water	CRM	Cobalt (Co)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.242	0.250	mg/L	97	90-110	
Water	CRM	Copper (Cu)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.239	0.250	mg/L	96	90-110	
Water	CRM	Iron (Fe)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.971	1.00	mg/L	97	90-110	
Water	CRM	Lead (Pb)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.499	0.500	mg/L	100	90-110	
Water	CRM	Lithium (Li)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.25	0.25	mg/L	100	90-110	
Water	CRM	Magnesium (Mg)-Dissolved	WG741050-5	VA-HIGH-WATRM	41.9	50.0	mg/L	84	85-115	RM-L
Water	CRM	Manganese (Mn)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.244	0.250	mg/L	98	90-110	
Water	CRM	Molybdenum (Mo)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.249	0.250	mg/L	100	90-110	
Water	CRM	Phosphorus (P)-Dissolved	WG741050-5	VA-HIGH-WATRM	2.53	2.50	mg/L	101	90-110	
Water	CRM	Potassium (K)-Dissolved	WG741050-5	VA-HIGH-WATRM	48.4	50.0	mg/L	97	85-115	
Water	CRM	Selenium (Se)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.991	1.00	mg/L	99	90-110	
Water	CRM	Silicon (Si)-Dissolved	WG741050-5	VA-HIGH-WATRM	1.00	1.00	mg/L	100	90-110	
Water	CRM	Silver (Ag)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.0975	0.100	mg/L	97	90-110	
Water	CRM	Strontium (Sr)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.244	0.250	mg/L	98	90-110	
Water	CRM	Thallium (Tl)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.963	1.00	mg/L	96	85-115	
Water	CRM	Tin (Sn)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.522	0.500	mg/L	104	90-110	
Water	CRM	Titanium (Ti)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.259	0.250	mg/L	104	90-110	
Water	CRM	Uranium (U)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.00528	0.00500	mg/L	106	90-110	
Water	CRM	Vanadium (V)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.482	0.500	mg/L	96	90-110	
Water	CRM	Zinc (Zn)-Dissolved	WG741050-5	VA-HIGH-WATRM	0.506	0.500	mg/L	101	85-115	
Water	CRM	Mercury (Hg)-Dissolved	WG742514-2	VA-HG-WATRM	0.000099	0.000100	mg/L	99	88-112	
Water	CRM	Mercury (Hg)-Total	WG742514-2	VA-HG-WATRM	0.000099	0.000100	mg/L	99	88-112	
Water	MB	Aluminium (Al)-Dissolved	WG741050-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Antimony (Sb)-Dissolved	WG741050-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Arsenic (As)-Dissolved	WG741050-1		<0.000030	<0.00003	mg/L	-	0.00003	
Water	MB	Barium (Ba)-Dissolved	WG741050-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Beryllium (Be)-Dissolved	WG741050-1		<0.00020	<0.0002	mg/L	-	0.0002	
Water	MB	Bismuth (Bi)-Dissolved	WG741050-1		<0.00050	<0.0005	mg/L	-	0.0005	
Water	MB	Boron (B)-Dissolved	WG741050-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Cadmium (Cd)-Dissolved	WG741050-1		<0.000017	<0.000017	mg/L	-	0.000017	
Water	MB	Calcium (Ca)-Dissolved	WG741050-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Chromium (Cr)-Dissolved	WG741050-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Cobalt (Co)-Dissolved	WG741050-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Copper (Cu)-Dissolved	WG741050-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Iron (Fe)-Dissolved	WG741050-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Lead (Pb)-Dissolved	WG741050-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Lithium (Li)-Dissolved	WG741050-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Magnesium (Mg)-Dissolved	WG741050-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Manganese (Mn)-Dissolved	WG741050-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Mercury (Hg)-Dissolved	WG741050-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Molybdenum (Mo)-Dissolved	WG741050-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Nickel (Ni)-Dissolved	WG741050-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Phosphorus (P)-Dissolved	WG741050-1		<0.30	<0.3	mg/L	-	0.3	
Water	MB	Potassium (K)-Dissolved	WG741050-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Selenium (Se)-Dissolved	WG741050-1		0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Silicon (Si)-Dissolved	WG741050-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Silver (Ag)-Dissolved	WG741050-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Sodium (Na)-Dissolved	WG741050-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Strontium (Sr)-Dissolved	WG741050-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Thallium (Tl)-Dissolved	WG741050-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Tin (Sn)-Dissolved	WG741050-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Titanium (Ti)-Dissolved	WG741050-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Uranium (U)-Dissolved	WG741050-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Vanadium (V)-Dissolved	WG741050-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Zinc (Zn)-Dissolved	WG741050-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Mercury (Hg)-Dissolved	WG742514-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Mercury (Hg)-Total	WG742514-1		<0.000010	<0.00001	mg/L	-	0.00001	
Organic Parameters										
Water	CRM	Total Organic Carbon	WG742050-4	VA-TOC-C-CAFFEINE	8.16	8.57	mg/L	95	85-115	
Water	CRM	Total Organic Carbon	WG742050-6	VA-TOC-C-CAFFEINE	8.31	8.57	mg/L	97	85-115	
Water	CRM	Total Organic Carbon	WG742050-8	VA-TOC-C-CAFFEINE	8.02	8.57	mg/L	94	85-115	
Water	CRM	Total Organic Carbon	WG743998-2	VA-TOC-C-CAFFEINE	8.25	8.57	mg/L	96	85-115	
Water	CRM	Total Organic Carbon	WG743998-4	VA-TOC-C-CAFFEINE	8.91	8.57	mg/L	104	85-115	
Water	CRM	Total Organic Carbon	WG743998-6	VA-TOC-C-CAFFEINE	8.71	8.57	mg/L	102	85-115	
Water	CRM	Total Organic Carbon	WG743998-8	VA-TOC-C-CAFFEINE	9.64	8.57	mg/L	112	85-115	
Water	CRM	Total Organic Carbon	WG743998-10	VA-TOC-C-CAFFEINE	8.43	8.57	mg/L	98	85-115	
Water	CRM	Total Organic Carbon	WG743998-12	VA-TOC-C-CAFFEINE	8.64	8.57	mg/L	101	85-115	
Water	CRM	Total Organic Carbon	WG743998-14	VA-TOC-C-CAFFEINE	8.49	8.57	mg/L	99	85-115	
Water	MB	Total Organic Carbon	WG742050-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Total Organic Carbon	WG742050-5		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Total Organic Carbon	WG742050-7		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Total Organic Carbon	WG743998-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Total Organic Carbon	WG743998-3		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Total Organic Carbon	WG743998-5		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Total Organic Carbon	WG743998-7		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Total Organic Carbon	WG743998-9		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Total Organic Carbon	WG743998-11		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Total Organic Carbon	WG743998-13		<0.50	<0.5	mg/L	-	0.5	

**Mar. 11, 2008 Minago Surface Water Quality Data
for which the measured Dissolved concentration was higher than the Total concentration**



APPENDIX L7.5-P

Certified Laboratory Reports for Surface Water Quality

May 2008 Results



Environmental Division

ANALYTICAL REPORT

VICTORY NICKEL INC.

ATTN: DR. DAVID MCHAINA

#1802 - 80 RICHMOND STREET WEST

TORONTO ON M5H 2A4

Reported On: 17-JUN-08 06:20 PM

Lab Work Order #: L632454

Date Received: 22-MAY-08

Project P.O. #:

Job Reference: MINAGO PROJECT

Legal Site Desc:

CofC Numbers:

Other Information:

Comments: Radium-226 analysis was subcontracted to SRC analytical in Saskatoon, Saskatchewan. Refer to their report in the appendix for detail.

Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Bryan Mark

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS Canada Ltd.
Part of the **ALS Laboratory Group**

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ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L632454-1	L632454-2	L632454-3	L632454-4	L632454-5
		Description					
		Sampled Date	06-MAY-08	07-MAY-08	07-MAY-08	07-MAY-08	07-MAY-08
		Sampled Time					
		Client ID	MRW3	OCW2	OCW3	MRW2X	WILLIAM LAKE
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)	89.5	171	157	169	61.5	
	Conductivity (uS/cm)	155	295	258	326	109	
	pH (pH)	7.77	8.03	7.97	8.07	8.18	
	Total Dissolved Solids (mg/L)	97	165	141	193	60	
	Total Suspended Solids (mg/L)	4.5	4.5	<3.0	12.5	<3.0	
	Turbidity (NTU)	2.01	0.50	0.25	7.97	0.19	
Anions and Nutrients	Ammonia as N (mg/L)	<0.020	<0.020	0.031	0.025	0.024	
	Acidity (as CaCO3) (mg/L)	2.9	2.7	3.0	2.7	<1.0	
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	88.0	168	145	181	56.6	
	Alkalinity, Carbonate (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	
	Alkalinity, Total (as CaCO3) (mg/L)	88.0	168	145	181	56.6	
	Bromide (Br) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050	
	Chloride (Cl) (mg/L)	0.97	<0.50	<0.50	1.61	<0.50	
	Fluoride (F) (mg/L)	0.042	0.067	0.054	0.075	0.039	
	Sulfate (SO4) (mg/L)	0.89	2.17	1.19	1.82	0.72	
	Nitrate (as N) (mg/L)	<0.0050	0.0123	<0.0050	0.0065	0.0297	
	Nitrite (as N) (mg/L)	0.0016	<0.0010	<0.0010	0.0026	0.0015	
	Total Kjeldahl Nitrogen (mg/L)	0.501	0.325	0.333	0.462	0.153	
	Total Nitrogen (mg/L)	0.503	0.337	0.333	0.471	0.184	
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Total Metals	Aluminum (Al)-Total (mg/L)	0.227	0.0181	0.0011	0.333	0.0036	
	Antimony (Sb)-Total (mg/L)	<0.000050	<0.000050	<0.000050	0.000064	<0.000050	
	Arsenic (As)-Total (mg/L)	0.000490	0.000282	0.000293	0.000386	0.000136	
	Barium (Ba)-Total (mg/L)	0.00974	0.0216	0.0172	0.0242	0.0109	
	Beryllium (Be)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
	Boron (B)-Total (mg/L)	0.0090	0.0071	0.0052	0.0123	0.0035	
	Cadmium (Cd)-Total (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017	
	Calcium (Ca)-Total (mg/L)	18.0	38.2	34.6	32.5	10.8	
	Chromium (Cr)-Total (mg/L)	0.00063	0.00015	0.00016	0.00064	0.00019	
	Cobalt (Co)-Total (mg/L)	0.00012	<0.00010	<0.00010	0.00020	<0.00010	
	Copper (Cu)-Total (mg/L)	0.00091	0.00013	0.00010	0.00067	0.00026	
	Iron (Fe)-Total (mg/L)	0.272	0.040	0.036	0.386	<0.010	
	Lead (Pb)-Total (mg/L)	0.000245	<0.000050	<0.000050	0.000256	0.000069	
	Lithium (Li)-Total (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
	Magnesium (Mg)-Total (mg/L)	8.16	19.8	17.6	16.4	8.32	
	Manganese (Mn)-Total (mg/L)	0.0117	0.00464	0.00289	0.0230	0.000681	

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L632454-6	L632454-7	L632454-8	L632454-9	L632454-10
		08-MAY-08	08-MAY-08	08-MAY-08	09-MAY-08	09-MAY-08
		WRAOC	OCAWR	WRW1X	OCW1	HRW1
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO3) (mg/L)	198	73.8	88.7	150	91.3
	Conductivity (uS/cm)	355	137	177	258	171
	pH (pH)	8.24	7.99	8.05	8.10	8.05
	Total Dissolved Solids (mg/L)	200	99	111	149	118
	Total Suspended Solids (mg/L)	33.5	50.0	57.5	<3.0	42.0
	Turbidity (NTU)	17.7	24.1	38.1	0.50	16.6
Anions and Nutrients	Ammonia as N (mg/L)	0.039	0.043	0.029	0.025	0.027
	Acidity (as CaCO3) (mg/L)	<1.0	1.5	1.6	1.9	2.0
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	197	73.9	93.7	138	91.3
	Alkalinity, Carbonate (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Alkalinity, Hydroxide (as CaCO3) (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0
	Alkalinity, Total (as CaCO3) (mg/L)	197	73.9	93.7	138	91.3
	Bromide (Br) (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Chloride (Cl) (mg/L)	1.13	0.57	0.67	0.56	0.63
	Fluoride (F) (mg/L)	0.097	0.042	0.051	0.058	0.050
	Sulfate (SO4) (mg/L)	2.72	0.53	0.89	1.57	0.69
	Nitrate (as N) (mg/L)	0.0109	0.0141	0.0164	0.0092	0.0109
	Nitrite (as N) (mg/L)	0.0013	0.0048	0.0046	<0.0010	0.0033
	Total Kjeldahl Nitrogen (mg/L)	0.53	0.530	0.490	0.325	0.511
	Total Nitrogen (mg/L)	0.54	0.549	0.511	0.335	0.525
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Metals	Aluminum (Al)-Total (mg/L)	0.804	0.579	0.632	0.0239	0.421
	Antimony (Sb)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Arsenic (As)-Total (mg/L)	0.000560	0.000482	0.000487	0.000297	0.000621
	Barium (Ba)-Total (mg/L)	0.0341	0.0153	0.0185	0.0172	0.0127
	Beryllium (Be)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	0.0134	0.0054	0.0069	0.0060	0.0092
	Cadmium (Cd)-Total (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017
	Calcium (Ca)-Total (mg/L)	28.4	16.1	17.8	30.6	20.2
	Chromium (Cr)-Total (mg/L)	0.00154	0.00135	0.00139	0.00015	0.00091
	Cobalt (Co)-Total (mg/L)	0.00041	0.00053	0.00047	<0.00010	0.00030
	Copper (Cu)-Total (mg/L)	0.00108	0.00148	0.00133	0.00017	0.00133
	Iron (Fe)-Total (mg/L)	0.810	0.787	0.783	0.064	0.532
	Lead (Pb)-Total (mg/L)	0.000400	0.000592	0.000496	<0.000050	0.000362
	Lithium (Li)-Total (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Total (mg/L)	28.1	7.47	10.9	16.3	8.80
	Manganese (Mn)-Total (mg/L)	0.0215	0.0536	0.0451	0.00840	0.0327

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L632454-11 09-MAY-08 MRW1	L632454-12 08-MAY-08 FIELD BLANK	L632454-13 09-MAY-08 TRAVEL BLANK		
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	87.2	<0.50	<0.50		
	Conductivity (uS/cm)	153				
	pH (pH)	7.87				
	Total Dissolved Solids (mg/L)	99				
	Total Suspended Solids (mg/L)	5.0				
	Turbidity (NTU)	2.77				
Anions and Nutrients	Ammonia as N (mg/L)	0.021				
	Acidity (as CaCO ₃) (mg/L)	2.7				
	Alkalinity, Bicarbonate (as CaCO ₃) (mg/L)	83.9				
	Alkalinity, Carbonate (as CaCO ₃) (mg/L)	<2.0				
	Alkalinity, Hydroxide (as CaCO ₃) (mg/L)	<2.0				
	Alkalinity, Total (as CaCO ₃) (mg/L)	83.9				
	Bromide (Br) (mg/L)	<0.050				
	Chloride (Cl) (mg/L)	0.69				
	Fluoride (F) (mg/L)	0.044				
	Sulfate (SO ₄) (mg/L)	0.52				
	Nitrate (as N) (mg/L)	<0.0050				
	Nitrite (as N) (mg/L)	<0.0010				
	Total Kjeldahl Nitrogen (mg/L)	0.480				
	Total Nitrogen (mg/L)	0.480				
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050				
Total Metals	Aluminum (Al)-Total (mg/L)	0.158	<0.0010	<0.0010		
	Antimony (Sb)-Total (mg/L)	<0.000050	<0.000050	<0.000050		
	Arsenic (As)-Total (mg/L)	0.000417	<0.000030	<0.000030		
	Barium (Ba)-Total (mg/L)	0.00800	<0.000050	<0.000050		
	Beryllium (Be)-Total (mg/L)	<0.00020	<0.00020	<0.00020		
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050		
	Boron (B)-Total (mg/L)	0.0074	<0.0010	<0.0010		
	Cadmium (Cd)-Total (mg/L)	<0.000017	<0.000017	<0.000017		
	Calcium (Ca)-Total (mg/L)	16.7	<0.020	<0.020		
	Chromium (Cr)-Total (mg/L)	0.00032	<0.00010	<0.00010		
	Cobalt (Co)-Total (mg/L)	0.00011	<0.00010	<0.00010		
	Copper (Cu)-Total (mg/L)	0.00194	<0.00010	<0.00010		
	Iron (Fe)-Total (mg/L)	0.220	<0.010	<0.010		
	Lead (Pb)-Total (mg/L)	0.000137	<0.000050	<0.000050		
	Lithium (Li)-Total (mg/L)	<0.0050	<0.0050	<0.0050		
	Magnesium (Mg)-Total (mg/L)	7.76	<0.0050	<0.0050		
	Manganese (Mn)-Total (mg/L)	0.0168	<0.000050	<0.000050		

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		Sample ID	L632454-1	L632454-2	L632454-3	L632454-4	L632454-5
		Description					
		Sampled Date	06-MAY-08	07-MAY-08	07-MAY-08	07-MAY-08	07-MAY-08
		Sampled Time					
		Client ID	MRW3	OCW2	OCW3	MRW2X	WILLIAM LAKE
Grouping	Analyte						
WATER							
Total Metals	Mercury (Hg)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)		0.000135	0.000167	0.000095	0.000139	<0.000050
	Nickel (Ni)-Total (mg/L)		0.00066	<0.00010	<0.00010	0.00063	<0.00010
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		1.47	1.20	1.31	1.26	0.411
	Selenium (Se)-Total (mg/L)		0.00016	0.00021	0.00019	<0.00010	0.00011
	Silicon (Si)-Total (mg/L)		2.31	2.76	2.80	3.80	0.920
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		2.36	1.92	1.60	3.55	0.507
	Strontium (Sr)-Total (mg/L)		0.0293	0.0380	0.0335	0.0448	0.0113
	Thallium (Tl)-Total (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Tin (Sn)-Total (mg/L)		0.00012	0.00050	0.00060	0.00051	0.00054
	Titanium (Ti)-Total (mg/L)		<0.010	<0.010	<0.010	0.016	<0.010
	Uranium (U)-Total (mg/L)		0.000078	0.000419	0.000071	0.000258	0.000058
	Vanadium (V)-Total (mg/L)		0.000614	0.000129	0.000058	0.000918	0.000059
	Zinc (Zn)-Total (mg/L)		<0.0040	<0.0010	<0.0010	<0.0030	<0.0010
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		0.0438	0.0019	0.0011	0.0194	0.0021
	Antimony (Sb)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Arsenic (As)-Dissolved (mg/L)		0.000558	0.000259	0.000367	0.000461	0.000142
	Barium (Ba)-Dissolved (mg/L)		0.00962	0.0209	0.0168	0.0248	0.0108
	Beryllium (Be)-Dissolved (mg/L)		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Bismuth (Bi)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)		0.0099	0.0065	0.0057	0.0134	0.0034
	Cadmium (Cd)-Dissolved (mg/L)		<0.000017	<0.000017	<0.000017	<0.000017	<0.000017
	Calcium (Ca)-Dissolved (mg/L)		21.1	37.2	33.8	37.3	10.9
	Chromium (Cr)-Dissolved (mg/L)		0.00023	0.00015	<0.0010	0.00020	0.00025
	Cobalt (Co)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)		0.00084	0.00014	0.00011	0.00045	0.00026
	Iron (Fe)-Dissolved (mg/L)		0.078	0.035	0.021	0.041	<0.010
	Lead (Pb)-Dissolved (mg/L)		0.000106	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Dissolved (mg/L)		8.96	19.0	17.5	18.4	8.35
	Manganese (Mn)-Dissolved (mg/L)		0.00706	0.00322	0.00122	0.0178	0.000658
	Mercury (Hg)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)		0.000085	0.000195	0.000271	0.000132	<0.000050
	Nickel (Ni)-Dissolved (mg/L)		0.00034	<0.00010	<0.00010	0.00029	<0.00010
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		1.70	1.16	1.27	1.36	0.416
	Selenium (Se)-Dissolved (mg/L)		0.00020	<0.00010	0.00022	<0.00010	<0.00010

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	Sample ID Description Sampled Date Sampled Time Client ID	L632454-6 08-MAY-08 WRAOC	L632454-7 08-MAY-08 OCAWR	L632454-8 08-MAY-08 WRW1X	L632454-9 09-MAY-08 OCW1	L632454-10 09-MAY-08 HRW1
Grouping	Analyte					
WATER						
Total Metals	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.000107	<0.000050	<0.000050	0.000124	0.000051
	Nickel (Ni)-Total (mg/L)	0.00121	0.00138	0.00133	0.00017	0.00096
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)	1.32	1.04	1.10	1.09	1.21
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	0.00017
	Silicon (Si)-Total (mg/L)	4.51	2.96	3.30	2.48	3.14
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	2.02	1.87	1.93	1.80	2.44
	Strontium (Sr)-Total (mg/L)	0.0337	0.0214	0.0235	0.0308	0.0321
	Thallium (Tl)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Tin (Sn)-Total (mg/L)	0.00033	0.00010	0.00049	0.00030	0.00052
	Titanium (Ti)-Total (mg/L)	0.040	0.023	0.029	<0.010	0.020
	Uranium (U)-Total (mg/L)	0.000312	0.000182	0.000202	0.000308	0.000148
	Vanadium (V)-Total (mg/L)	0.00175	0.00168	0.00165	0.000153	0.00139
	Zinc (Zn)-Total (mg/L)	<0.0050	<0.0050	<0.0060	<0.0010	<0.0040
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)		0.0991	0.0852	0.0034	0.319
	Antimony (Sb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Arsenic (As)-Dissolved (mg/L)	0.000697	0.000534	0.000494	0.000323	0.000754
	Barium (Ba)-Dissolved (mg/L)	0.0379	0.0102	0.0118	0.0181	0.0142
	Beryllium (Be)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	0.0143	0.0056	0.0068	0.0061	0.0095
	Cadmium (Cd)-Dissolved (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017
	Calcium (Ca)-Dissolved (mg/L)	30.8	17.3	18.1	32.0	21.8
	Chromium (Cr)-Dissolved (mg/L)	0.00199	0.00035	0.00038	0.00047	0.00120
	Cobalt (Co)-Dissolved (mg/L)	0.00035	0.00011	<0.00010	<0.00010	0.00031
	Copper (Cu)-Dissolved (mg/L)	0.00103	0.00096	0.00061	0.00018	0.00125
	Iron (Fe)-Dissolved (mg/L)	0.391	0.099	0.083	0.026	0.425
	Lead (Pb)-Dissolved (mg/L)	0.000396	0.000089	0.000090	<0.000050	0.000279
	Lithium (Li)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Magnesium (Mg)-Dissolved (mg/L)	29.4	7.43	10.6	17.1	8.99
	Manganese (Mn)-Dissolved (mg/L)	0.0192	0.0324	0.0269	0.00697	0.0339
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.000106	<0.000050	0.000063	0.000154	0.000050
	Nickel (Ni)-Dissolved (mg/L)	0.00098	0.00069	0.00045	0.00012	0.00093
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	1.63	1.10	1.04	1.14	1.39
	Selenium (Se)-Dissolved (mg/L)	0.00014	<0.00010	<0.00010	<0.00010	<0.00010

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	Sample ID Description Sampled Date Sampled Time Client ID	L632454-11 09-MAY-08 MRW1	L632454-12 08-MAY-08 FIELD BLANK	L632454-13 09-MAY-08 TRAVEL BLANK		
Grouping	Analyte					
WATER						
Total Metals	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010		
	Molybdenum (Mo)-Total (mg/L)	0.000057	<0.000050	<0.000050		
	Nickel (Ni)-Total (mg/L)	0.00051	<0.00010	<0.00010		
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30		
	Potassium (K)-Total (mg/L)	1.03	<0.050	<0.050		
	Selenium (Se)-Total (mg/L)	<0.00010	<0.00010	<0.00010		
	Silicon (Si)-Total (mg/L)	1.95	<0.050	<0.050		
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010		
	Sodium (Na)-Total (mg/L)	2.25	<0.010	<0.010		
	Strontium (Sr)-Total (mg/L)	0.0246	<0.00010	<0.00010		
	Thallium (Tl)-Total (mg/L)	<0.000050	<0.000050	<0.000050		
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010		
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	<0.010		
	Uranium (U)-Total (mg/L)	0.000070	<0.000010	<0.000010		
	Vanadium (V)-Total (mg/L)	0.000489	<0.000050	<0.000050		
	Zinc (Zn)-Total (mg/L)	<0.0040	<0.0010	<0.0010		
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0346				
	Antimony (Sb)-Dissolved (mg/L)	<0.000050				
	Arsenic (As)-Dissolved (mg/L)	0.000538				
	Barium (Ba)-Dissolved (mg/L)	0.00852				
	Beryllium (Be)-Dissolved (mg/L)	<0.00020				
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050				
	Boron (B)-Dissolved (mg/L)	0.0086				
	Cadmium (Cd)-Dissolved (mg/L)	<0.000017				
	Calcium (Ca)-Dissolved (mg/L)	20.2				
	Chromium (Cr)-Dissolved (mg/L)	0.00035				
	Cobalt (Co)-Dissolved (mg/L)	<0.00010				
	Copper (Cu)-Dissolved (mg/L)	0.00065				
	Iron (Fe)-Dissolved (mg/L)	0.062				
	Lead (Pb)-Dissolved (mg/L)	<0.000050				
	Lithium (Li)-Dissolved (mg/L)	<0.0050				
	Magnesium (Mg)-Dissolved (mg/L)	8.95				
	Manganese (Mn)-Dissolved (mg/L)	0.0132				
	Mercury (Hg)-Dissolved (mg/L)	<0.000010				
	Molybdenum (Mo)-Dissolved (mg/L)	0.000084				
	Nickel (Ni)-Dissolved (mg/L)	0.00114				
	Phosphorus (P)-Dissolved (mg/L)	<0.30				
	Potassium (K)-Dissolved (mg/L)	1.24				
	Selenium (Se)-Dissolved (mg/L)	0.00014				

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L632454-1	L632454-2	L632454-3	L632454-4	L632454-5
		Description					
		Sampled Date	06-MAY-08	07-MAY-08	07-MAY-08	07-MAY-08	07-MAY-08
		Sampled Time					
		Client ID	MRW3	OCW2	OCW3	MRW2X	WILLIAM LAKE
Grouping	Analyte						
WATER							
Dissolved Metals	Silicon (Si)-Dissolved (mg/L)		1.97	2.60	2.84	3.33	0.756
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)		2.54	1.85	1.61	3.87	0.520
	Strontium (Sr)-Dissolved (mg/L)		0.0337	0.0370	0.0328	0.0515	0.0112
	Thallium (Tl)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Tin (Sn)-Dissolved (mg/L)		0.00023	<0.00010	0.00018	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.000069	0.000444	0.000074	0.000246	0.000063
	Vanadium (V)-Dissolved (mg/L)		0.000307	0.000112	0.000050	0.000390	<0.000050
	Zinc (Zn)-Dissolved (mg/L)		0.0014	<0.0010	<0.0010	0.0019	<0.0010
Organic Parameters	Total Organic Carbon (mg/L)		9.81	8.43	7.81	10.1	2.41
Miscellaneous-No group	Dissolved Organic Carbon (mg/L)		10.6	8.30	7.80	10.7	1.86

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L632454-6	L632454-7	L632454-8	L632454-9	L632454-10
		Description					
		Sampled Date	08-MAY-08	08-MAY-08	08-MAY-08	09-MAY-08	09-MAY-08
		Sampled Time					
		Client ID	WRAOC	OCAWR	WRW1X	OCW1	HRW1
Grouping	Analyte						
WATER							
Dissolved Metals	Silicon (Si)-Dissolved (mg/L)		3.77	2.26	2.30	2.36	2.98
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)		2.16	2.03	1.91	1.88	2.53
	Strontium (Sr)-Dissolved (mg/L)		0.0375	0.0237	0.0239	0.0322	0.0354
	Thallium (Tl)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Tin (Sn)-Dissolved (mg/L)		0.00019	<0.00010	<0.00010	0.00021	0.00011
	Titanium (Ti)-Dissolved (mg/L)		0.026	<0.010	<0.010	<0.010	0.019
	Uranium (U)-Dissolved (mg/L)		0.000310	0.000158	0.000180	0.000316	0.000143
	Vanadium (V)-Dissolved (mg/L)		0.00207	0.000513	0.000461	0.000119	0.00155
	Zinc (Zn)-Dissolved (mg/L)		0.0043	0.0013	0.0011	<0.0010	0.0023
Organic Parameters	Total Organic Carbon (mg/L)		8.25	12.2	11.7	9.15	10.6
Miscellaneous-No group	Dissolved Organic Carbon (mg/L)		8.88	12.3	11.6	9.34	11.2

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L632454-11	L632454-12	L632454-13		
		Description					
		Sampled Date	09-MAY-08	08-MAY-08	09-MAY-08		
		Sampled Time					
		Client ID	MRW1	FIELD BLANK	TRAVEL BLANK		
Grouping	Analyte						
WATER							
Dissolved Metals	Silicon (Si)-Dissolved (mg/L)		1.70				
	Silver (Ag)-Dissolved (mg/L)		<0.000010				
	Sodium (Na)-Dissolved (mg/L)		2.52				
	Strontium (Sr)-Dissolved (mg/L)		0.0296				
	Thallium (Tl)-Dissolved (mg/L)		<0.000050				
	Tin (Sn)-Dissolved (mg/L)		<0.00010				
	Titanium (Ti)-Dissolved (mg/L)		<0.010				
	Uranium (U)-Dissolved (mg/L)		0.000065				
	Vanadium (V)-Dissolved (mg/L)		0.000305				
	Zinc (Zn)-Dissolved (mg/L)		0.0019				
Organic Parameters	Total Organic Carbon (mg/L)		8.96				
Miscellaneous-No group	Dissolved Organic Carbon (mg/L)		9.95				

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-SCR-VA	Water	Alkalinity by colour or titration	EPA 310.2 OR APHA 2320
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method. OR This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
CARBONS-DOC-VA	Water	Dissolved organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colorimetric	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
<p>This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.</p>			
FE-DIS-LOW-ICP-VA	Water	Dissolved Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
FE-TOT-LOW-ICP-VA	Water	Total Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
<p>Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.</p>			
HG-DIS-LOW-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS(Low)	EPA SW-846 3005A & EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
HG-TOT-LOW-CVAFS-VA	Water	Total Mercury in Water by CVAFS(Low)	EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-DIS-ULTRA-MS-VA	Water	Diss. Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA).</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

MET-TOT-ULTRA-MS-VA	Water	Total Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
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This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.

PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
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This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

TDS-VA	Water	Total Dissolved Solids by Gravimetric	APHA 2540 C - GRAVIMETRIC
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This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.

TKN-COL-VA	Water	Total Kjeldahl Nitrogen by Auto. Colour	APHA 4500-Norg (TKN)
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This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.

TN-CALC-VA	Water	TN by Calc (TKN + N+N)	BC MOE LABORATORY MANUAL (2005)
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Total Nitrogen is determined by calculation by suming TKN and the NO2 and NO3 results.

TSS-VA	Water	Solids by Gravimetric	APHA 2540 D - GRAVIMETRIC
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This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.

TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
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This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. *The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

SRC ANALYTICAL

422 Downey Road

Saskatoon, Saskatchewan, Canada

S7N 4N1

(306) 933-6932 or 1-800-240-8808

Fax: (306) 933-7922

ALS

Aurora Laboratory Services Ltd.

1988 Triumph Street

Vancouver, British Columbia V5L 1K5

Attn: Can Dang

Sample # **17829**
Date Sampled: **May 06, 2008**
Sample Matrix: **WATER**
Description: **L632454-1 MRW3**

Client PO #: **ALS19728**
Date Received: **May 26, 2008**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Jun 12, 2008

"<": not detected at level stated above.

SRC ANALYTICAL

Sample # **17830**
Date Sampled: **May 07, 2008**
Sample Matrix: **WATER**
Description: **L632454-2 OCW2**

Client PO #: **ALS19728**
Date Received: **May 26, 2008**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Jun 12, 2008

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-533**

Jun 13, 2008

ALS, Aurora Laboratory Services Ltd.

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Sample # **17831**
Date Sampled: **May 07, 2008**
Sample Matrix: **WATER**
Description: **L632454-3 OCW3**

Client PO #: **ALS19728**
Date Received: **May 26, 2008**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Jun 12, 2008

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-534**

Jun 13, 2008

ALS, Aurora Laboratory Services Ltd.

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Sample # **17832**
Date Sampled: **May 07, 2008**
Sample Matrix: **WATER**
Description: **L632454-4 MRW2X**

Client PO #: **ALS19728**
Date Received: **May 26, 2008**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Jun 12, 2008

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-535**

Jun 13, 2008

ALS, Aurora Laboratory Services Ltd.

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Sample # **17833**
Date Sampled: **May 07, 2008**
Sample Matrix: **WATER**
Description: **L632454-5 WILLIAM LAKE**

Client PO #: **ALS19728**
Date Received: **May 26, 2008**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Jun 12, 2008

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-536**

Jun 13, 2008

ALS, Aurora Laboratory Services Ltd.

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Sample # **17834**
Date Sampled: **May 08, 2008**
Sample Matrix: **WATER**
Description: **L632454-6 WRAOC**

Client PO #: **ALS19728**
Date Received: **May 26, 2008**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.006	0.005	Jun 12, 2008

SRC ANALYTICAL**L7.5-537** Jun 13, 2008

ALS, Aurora Laboratory Services Ltd.

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Sample # **17835**
Date Sampled: **May 08, 2008**
Sample Matrix: **WATER**
Description: **L632454-7 OCAWR**

Client PO #: **ALS19728**
Date Received: **May 26, 2008**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.006	0.005	Jun 12, 2008

Sample # **17836**
Date Sampled: **May 08, 2008**
Sample Matrix: **WATER**
Description: **L632454-8 WRW1X**

Client PO #: **ALS19728**
Date Received: **May 26, 2008**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.01	0.005	Jun 12, 2008

Sample # **17837**
Date Sampled: **May 09, 2008**
Sample Matrix: **WATER**
Description: **L632454-9 OCW1**

Client PO #: **ALS19728**
Date Received: **May 26, 2008**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Jun 12, 2008

"<": not detected at level stated above.

SRC ANALYTICAL L7.5-540

Jun 13, 2008

ALS, Aurora Laboratory Services Ltd.

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Sample # **17838**
Date Sampled: **May 09, 2008**
Sample Matrix: **WATER**
Description: **L632454-10 HRW1**

Client PO #: **ALS19728**
Date Received: **May 26, 2008**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Jun 12, 2008

"<": not detected at level stated above.

SRC ANALYTICAL**L7.5-541**

Jun 13, 2008

ALS, Aurora Laboratory Services Ltd.

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Sample # **17839**
Date Sampled: **May 09, 2008**
Sample Matrix: **WATER**
Description: **L632454-11 MRW1**

Client PO #: **ALS19728**
Date Received: **May 26, 2008**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	<0.005	0.005	Jun 12, 2008

"<": not detected at level stated above.

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Cyanides											
L632454-1	Water	WG776145-3	Cyanide, Weak Acid Diss	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
Total Metals											
L632454-1	Water	WG770912-3	Aluminum (Al)-Total	0.227	0.232	mg/L	2.5	20	-	-	-
L632454-1	Water	WG770912-3	Antimony (Sb)-Total	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L632454-1	Water	WG770912-3	Arsenic (As)-Total	0.00049	0.000493	mg/L	0.63	20	-	-	-
L632454-1	Water	WG770912-3	Barium (Ba)-Total	0.00974	0.0104	mg/L	6.7	20	-	-	-
L632454-1	Water	WG770912-3	Beryllium (Be)-Total	<0.00020	<0.00020	mg/L	N/A	20	-	-	RPD-NA
L632454-1	Water	WG770912-3	Bismuth (Bi)-Total	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L632454-1	Water	WG770912-3	Boron (B)-Total	0.009	0.0093	mg/L	-	-	0.0003	0.004	J
L632454-1	Water	WG770912-3	Cadmium (Cd)-Total	<0.000017	<0.000017	mg/L	N/A	20	-	-	RPD-NA
L632454-1	Water	WG770912-3	Calcium (Ca)-Total	18	18.3	mg/L	1.6	20	-	-	-
L632454-1	Water	WG770912-3	Chromium (Cr)-Total	0.00063	0.00053	mg/L	-	-	0.00011	0.0004	J
L632454-1	Water	WG770912-3	Cobalt (Co)-Total	0.00012	0.00013	mg/L	-	-	0	0.0004	J
L632454-1	Water	WG770912-3	Copper (Cu)-Total	0.00091	0.00089	mg/L	-	-	0.00002	0.0004	J
L632454-1	Water	WG770912-3	Lead (Pb)-Total	0.000245	0.000205	mg/L	-	-	0.00004	0.0002	J
L632454-1	Water	WG770912-3	Lithium (Li)-Total	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA
L632454-1	Water	WG770912-3	Magnesium (Mg)-Total	8.16	8.33	mg/L	2.2	20	-	-	-
L632454-1	Water	WG770912-3	Manganese (Mn)-Total	0.0117	0.0117	mg/L	0.059	20	-	-	-
L632454-1	Water	WG770912-3	Molybdenum (Mo)-Total	0.000135	0.0001	mg/L	-	-	0.000035	0.0002	J
L632454-1	Water	WG770912-3	Nickel (Ni)-Total	0.00066	0.00054	mg/L	-	-	0.00012	0.0004	J
L632454-1	Water	WG770912-3	Phosphorus (P)-Total	<0.30	<0.30	mg/L	N/A	20	-	-	RPD-NA
L632454-1	Water	WG770912-3	Potassium (K)-Total	1.47	1.51	mg/L	2.1	20	-	-	-
L632454-1	Water	WG770912-3	Selenium (Se)-Total	0.00016	0.00015	mg/L	-	-	0.00002	0.0004	J
L632454-1	Water	WG770912-3	Silicon (Si)-Total	2.31	2.32	mg/L	0.31	20	-	-	-
L632454-1	Water	WG770912-3	Silver (Ag)-Total	<0.000010	<0.000010	mg/L	N/A	20	-	-	RPD-NA
L632454-1	Water	WG770912-3	Sodium (Na)-Total	2.36	2.4	mg/L	1.8	20	-	-	-
L632454-1	Water	WG770912-3	Strontium (Sr)-Total	0.0293	0.0298	mg/L	1.8	20	-	-	-
L632454-1	Water	WG770912-3	Thallium (Tl)-Total	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L632454-1	Water	WG770912-3	Tin (Sn)-Total	0.00012	0.00016	mg/L	-	-	0.00004	0.0004	J
L632454-1	Water	WG770912-3	Titanium (Ti)-Total	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L632454-1	Water	WG770912-3	Uranium (U)-Total	0.000078	0.000079	mg/L	-	-	0.000001	0.00004	J
L632454-1	Water	WG770912-3	Vanadium (V)-Total	0.000614	0.000611	mg/L	0.61	20	-	-	-
L632454-1	Water	WG770912-3	Zinc (Zn)-Total	<0.0040	<0.0040	mg/L	N/A	20	-	-	RPD-NA
L632454-3	Water	WG772002-6	Mercury (Hg)-Total	<0.000010	<0.000010	mg/L	N/A	20	-	-	RPD-NA
Anions and Nutrients											
L632454-6	Water	WG771932-3	Bromide (Br)	<0.050	<0.050	mg/L	N/A	20	-	-	RPD-NA
L632454-6	Water	WG771932-3	Chloride (Cl)	1.13	1.13	mg/L	-	-	0	2	J
L632454-6	Water	WG771932-3	Fluoride (F)	0.097	0.097	mg/L	-	-	0	0.08	J
L632454-6	Water	WG771932-3	Sulfate (SO4)	2.72	2.72	mg/L	-	-	0	2	J
L632454-6	Water	WG771932-3	Nitrate (as N)	0.0109	0.0105	mg/L	-	-	0.0004	0.02	J
L632454-6	Water	WG771932-3	Nitrite (as N)	0.0013	0.0017	mg/L	-	-	0.0004	0.004	J
Organic Parameters											
L632454-7	Water	WG772353-14	Total Organic Carbon	12.2	11.7	mg/L	4	20	-	-	-
Anions and Nutrients											
L632454-8	Water	WG772945-4	Ammonia as N	0.029	0.027	mg/L	-	-	0.002	0.08	J

L7.5-542

QUALITY CONTROL RESULTS

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Physical Tests										
Water	CRM	Total Suspended Solids	WG776137-5	VA-TSS-INFUS-75	62	75	mg/L	83	80-120	
Water	CRM	Total Suspended Solids	WG776137-8	VA-TSS-INFUS-75	64	75	mg/L	85	80-120	
Water	CRM	Total Dissolved Solids	WG776140-2	VA-TDS-INFUS-425	418	425	mg/L	98	88-112	
Water	CRM	Total Dissolved Solids	WG776140-5	VA-TDS-INFUS-425	393	425	mg/L	93	88-112	
Water	CRM	Total Dissolved Solids	WG776140-8	VA-TDS-INFUS-425	401	425	mg/L	94	88-112	
Water	CRM	Turbidity	WG771431-11	VA-TURB-SPK-8	8.21	8	NTU	103	85-115	
Water	CRM	Turbidity	WG771431-12	VA-TURB-SPK-8	8.18	8	NTU	102	85-115	
Water	CRM	Turbidity	WG771431-13	VA-TURB-SPK-8	8.26	8	NTU	103	85-115	
Water	CRM	Turbidity	WG771431-14	VA-TURB-SPK-8	7.96	8	NTU	100	85-115	
Water	CRM	Turbidity	WG771431-15	VA-TURB-SPK-8	8.21	8	NTU	103	85-115	
Water	CRM	Turbidity	WG771431-16	VA-TURB-SPK-8	7.91	8	NTU	99	85-115	
Water	CRM	Turbidity	WG771431-17	VA-TURB-SPK-8	8.12	8	NTU	102	85-115	
Water	CRM	Turbidity	WG771431-18	VA-TURB-SPK-8	8.07	8	NTU	101	85-115	
Water	CRM	Turbidity	WG771431-19	VA-TURB-SPK-8	8.17	8	NTU	102	85-115	
Water	CRM	Turbidity	WG771431-20	VA-TURB-SPK-8	7.96	8	NTU	100	85-115	
Water	CRM	pH	WG772421-15	VA-PH7-BUF	7.02	7	pH	7.02	6.9-7.1	
Water	CRM	Conductivity	WG772421-17	VA-EC-PCT-CONTROL	149	147	uS/cm	101	90-110	
Water	MB	Turbidity	WG771431-1		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG771431-2		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG771431-3		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG771431-4		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG771431-5		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG771431-6		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG771431-7		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG771431-8		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG771431-9		<0.10	<0.1	NTU	-	0.1	
Water	MB	Conductivity	WG772421-1		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG772421-2		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG772421-3		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG772421-4		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG772421-5		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG772421-6		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG772421-7		<2.0	<2	uS/cm	-	2	
Water	MB	Total Suspended Solids	WG776137-1		<3.0	<3	mg/L	-	3	
Water	MB	Total Suspended Solids	WG776137-4		<3.0	<3	mg/L	-	3	
Water	MB	Total Suspended Solids	WG776137-7		<3.0	<3	mg/L	-	3	
Water	MB	Total Dissolved Solids	WG776140-1		<10	<10	mg/L	-	10	
Water	MB	Total Dissolved Solids	WG776140-4		<10	<10	mg/L	-	10	
Water	MB	Total Dissolved Solids	WG776140-7		<10	<10	mg/L	-	10	
Water	MB	Turbidity	WG771431-10		<0.10	<0.1	NTU	-	0.1	
Anions and Nutrients										
Water	CRM	Bromide (Br)	WG771932-2	VA-IC-IVA2-ION23110	0.977	0.999	mg/L	98	90-110	
Water	CRM	Chloride (Cl)	WG771932-2	VA-IC-IVA2-ION23110	50.3	50.2	mg/L	100	94-106	
Water	CRM	Fluoride (F)	WG771932-2	VA-IC-IVA2-ION23110	1.03	0.997	mg/L	103	93-107	
Water	CRM	Sulfate (SO4)	WG771932-2	VA-IC-IVA2-ION23110	50.9	50.2	mg/L	101	93-107	
Water	CRM	Nitrate (as N)	WG771932-2	VA-IC-IVA2-ION23110	0.257	0.251	mg/L	103	91-109	
Water	CRM	Nitrite (as N)	WG771932-2	VA-IC-IVA2-ION23110	0.141	0.15	mg/L	94	91-109	
Water	CRM	Ammonia as N	WG772945-3	VA-NH3-SIE-2MG/L	2.03	2	mg/L	102	85-115	
Water	CRM	Alkalinity, Total (as CaCO3)	WG773607-5	VA-ALKL-CONTROL	13.9	15	mg/L	92	85-115	
Water	CRM	Ammonia as N	WG774408-3	VA-NH3-SIE-2MG/L	1.92	2	mg/L	96	85-115	
Water	CRM	Total Kjeldahl Nitrogen	WG774967-3	VA-TKN-CSPK1	1.11	1	mg/L	111	85-115	
Water	CRM	Total Kjeldahl Nitrogen	WG774967-4	VA-TKN-CSPK1	1.06	1	mg/L	106	85-115	
Water	CRM	Total Kjeldahl Nitrogen	WG775388-4	VA-TKN-CSPK1	1.08	1	mg/L	108	85-115	
Water	CRM	Total Kjeldahl Nitrogen	WG775388-5	VA-TKN-CSPK1	1.05	1	mg/L	105	85-115	
Water	CRM	Total Kjeldahl Nitrogen	WG775388-6	VA-TKN-CSPK1	1.09	1	mg/L	109	85-115	
Water	CRM	Bromide (Br)	WG771932-12	VA-IC-IVA2-ION23110	0.957	0.999	mg/L	96	90-110	
Water	CRM	Chloride (Cl)	WG771932-12	VA-IC-IVA2-ION23110	50.8	50.2	mg/L	101	94-106	
Water	CRM	Fluoride (F)	WG771932-12	VA-IC-IVA2-ION23110	1.03	0.997	mg/L	104	93-107	
Water	CRM	Sulfate (SO4)	WG771932-12	VA-IC-IVA2-ION23110	51.3	50.2	mg/L	102	93-107	
Water	CRM	Nitrate (as N)	WG771932-12	VA-IC-IVA2-ION23110	0.25	0.251	mg/L	100	91-109	
Water	CRM	Nitrite (as N)	WG771932-12	VA-IC-IVA2-ION23110	0.145	0.15	mg/L	97	91-109	
Water	CRM	pH	WG772421-15	VA-PH7-BUF	7.02	7	pH	7.02	6.9-7.1	
Water	CRM	Conductivity	WG772421-17	VA-EC-PCT-CONTROL	149	147	uS/cm	101	90-110	
Water	MB	Bromide (Br)	WG771932-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG771932-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG771932-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG771932-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG771932-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG771932-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG771932-4		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG771932-4		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG771932-4		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG771932-4		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG771932-4		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG771932-4		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG771932-6		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG771932-6		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG771932-6		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG771932-6		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG771932-6		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG771932-6		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG771932-8		<0.050	<0.05	mg/L	-	0.05	

QUALITY CONTROL RESULTS

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Water	MB	Chloride (Cl)	WG771932-8		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG771932-8		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG771932-8		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG771932-8		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG771932-8		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Conductivity	WG772421-1		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG772421-2		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG772421-3		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG772421-4		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG772421-5		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG772421-6		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG772421-7		<2.0	<2	uS/cm	-	2	
Water	MB	Ammonia as N	WG772945-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Ammonia as N	WG772945-2		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Alkalinity, Total (as CaCO3)	WG773607-1		<2.0	<2	mg/L	-	2	
Water	MB	Alkalinity, Total (as CaCO3)	WG773607-3		<2.0	<2	mg/L	-	2	
Water	MB	Alkalinity, Total (as CaCO3)	WG773607-4		<2.0	<2	mg/L	-	2	
Water	MB	Alkalinity, Total (as CaCO3)	WG773607-8		<2.0	<2	mg/L	-	2	
Water	MB	Alkalinity, Total (as CaCO3)	WG773607-9		<2.0	<2	mg/L	-	2	
Water	MB	Ammonia as N	WG774408-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Ammonia as N	WG774408-2		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Total Kjeldahl Nitrogen	WG774967-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Total Kjeldahl Nitrogen	WG774967-2		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Total Kjeldahl Nitrogen	WG775388-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Total Kjeldahl Nitrogen	WG775388-2		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Total Kjeldahl Nitrogen	WG775388-3		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Bromide (Br)	WG771932-10		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG771932-10		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG771932-10		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG771932-10		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG771932-10		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG771932-10		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG771932-11		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG771932-11		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG771932-11		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG771932-11		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG771932-11		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG771932-11		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Alkalinity, Total (as CaCO3)	WG773607-10		<2.0	<2	mg/L	-	2	
Cyanides										
Water	CRM	Cyanide, Weak Acid Diss	WG776145-2	VA-WAD-CONTROL	0.261	0.3	mg/L	87	85-115	
Water	CRM	Cyanide, Weak Acid Diss	WG776399-2	VA-WAD-CONTROL	0.284	0.3	mg/L	95	85-115	
Water	MB	Cyanide, Weak Acid Diss	WG776145-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Cyanide, Weak Acid Diss	WG776399-1		<0.0050	<0.005	mg/L	-	0.005	
Total Metals										
Water	CRM	Aluminum (Al)-Total	WG768575-5	VA-HIGH-WATRM	2	2	mg/L	100	90-110	
Water	CRM	Antimony (Sb)-Total	WG768575-5	VA-HIGH-WATRM	0.911	1	mg/L	91	90-110	
Water	CRM	Arsenic (As)-Total	WG768575-5	VA-HIGH-WATRM	1	1	mg/L	100	90-110	
Water	CRM	Barium (Ba)-Total	WG768575-5	VA-HIGH-WATRM	0.256	0.25	mg/L	102	90-110	
Water	CRM	Beryllium (Be)-Total	WG768575-5	VA-HIGH-WATRM	0.0975	0.1	mg/L	97	90-110	
Water	CRM	Bismuth (Bi)-Total	WG768575-5	VA-HIGH-WATRM	0.948	1	mg/L	95	90-110	
Water	CRM	Boron (B)-Total	WG768575-5	VA-HIGH-WATRM	0.966	1	mg/L	97	85-115	
Water	CRM	Cadmium (Cd)-Total	WG768575-5	VA-HIGH-WATRM	0.0971	0.1	mg/L	97	90-110	
Water	CRM	Calcium (Ca)-Total	WG768575-5	VA-HIGH-WATRM	49.9	50	mg/L	100	85-115	
Water	CRM	Chromium (Cr)-Total	WG768575-5	VA-HIGH-WATRM	0.247	0.25	mg/L	99	90-110	
Water	CRM	Cobalt (Co)-Total	WG768575-5	VA-HIGH-WATRM	0.248	0.25	mg/L	99	90-110	
Water	CRM	Copper (Cu)-Total	WG768575-5	VA-HIGH-WATRM	0.245	0.25	mg/L	98	90-110	
Water	CRM	Iron (Fe)-Total	WG768575-5	VA-HIGH-WATRM	0.961	1	mg/L	96	90-110	
Water	CRM	Lead (Pb)-Total	WG768575-5	VA-HIGH-WATRM	0.5	0.5	mg/L	100	90-110	
Water	CRM	Lithium (Li)-Total	WG768575-5	VA-HIGH-WATRM	0.24	0.25	mg/L	95	90-110	
Water	CRM	Magnesium (Mg)-Total	WG768575-5	VA-HIGH-WATRM	50.1	50	mg/L	100	85-115	
Water	CRM	Manganese (Mn)-Total	WG768575-5	VA-HIGH-WATRM	0.246	0.25	mg/L	98	90-110	
Water	CRM	Molybdenum (Mo)-Total	WG768575-5	VA-HIGH-WATRM	0.253	0.25	mg/L	101	90-110	
Water	CRM	Nickel (Ni)-Total	WG768575-5	VA-HIGH-WATRM	0.488	0.5	mg/L	98	90-110	
Water	CRM	Phosphorus (P)-Total	WG768575-5	VA-HIGH-WATRM	2.47	2.5	mg/L	99	90-110	
Water	CRM	Potassium (K)-Total	WG768575-5	VA-HIGH-WATRM	49	50	mg/L	98	85-115	
Water	CRM	Selenium (Se)-Total	WG768575-5	VA-HIGH-WATRM	0.968	1	mg/L	97	90-110	
Water	CRM	Silicon (Si)-Total	WG768575-5	VA-HIGH-WATRM	0.994	1	mg/L	99	90-110	
Water	CRM	Silver (Ag)-Total	WG768575-5	VA-HIGH-WATRM	0.0979	0.1	mg/L	98	90-110	
Water	CRM	Sodium (Na)-Total	WG768575-5	VA-HIGH-WATRM	51.2	50	mg/L	102	85-115	
Water	CRM	Strontium (Sr)-Total	WG768575-5	VA-HIGH-WATRM	0.253	0.25	mg/L	101	90-110	
Water	CRM	Thallium (Tl)-Total	WG768575-5	VA-HIGH-WATRM	0.952	1	mg/L	95	85-115	
Water	CRM	Tin (Sn)-Total	WG768575-5	VA-HIGH-WATRM	0.51	0.5	mg/L	102	90-110	
Water	CRM	Titanium (Ti)-Total	WG768575-5	VA-HIGH-WATRM	0.245	0.25	mg/L	98	90-110	
Water	CRM	Uranium (U)-Total	WG768575-5	VA-HIGH-WATRM	0.00515	0.005	mg/L	103	90-110	
Water	CRM	Vanadium (V)-Total	WG768575-5	VA-HIGH-WATRM	0.492	0.5	mg/L	98	90-110	
Water	CRM	Zinc (Zn)-Total	WG768575-5	VA-HIGH-WATRM	0.494	0.5	mg/L	99	85-115	
Water	CRM	Aluminum (Al)-Total	WG770912-2	VA-HIGH-WATRM	2.04	2	mg/L	102	90-110	
Water	CRM	Antimony (Sb)-Total	WG770912-2	VA-HIGH-WATRM	1.05	1	mg/L	105	90-110	
Water	CRM	Arsenic (As)-Total	WG770912-2	VA-HIGH-WATRM	1.06	1	mg/L	106	90-110	
Water	CRM	Barium (Ba)-Total	WG770912-2	VA-HIGH-WATRM	0.268	0.25	mg/L	107	90-110	
Water	CRM	Beryllium (Be)-Total	WG770912-2	VA-HIGH-WATRM	0.104	0.1	mg/L	104	90-110	
Water	CRM	Bismuth (Bi)-Total	WG770912-2	VA-HIGH-WATRM	1.04	1	mg/L	104	90-110	

QUALITY CONTROL RESULTS

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Water	CRM	Boron (B)-Total	WG770912-2	VA-HIGH-WATRM	1.01	1	mg/L	101	85-115	
Water	CRM	Cadmium (Cd)-Total	WG770912-2	VA-HIGH-WATRM	0.102	0.1	mg/L	102	90-110	
Water	CRM	Calcium (Ca)-Total	WG770912-2	VA-HIGH-WATRM	53.5	50	mg/L	107	85-115	
Water	CRM	Chromium (Cr)-Total	WG770912-2	VA-HIGH-WATRM	0.272	0.25	mg/L	109	90-110	
Water	CRM	Cobalt (Co)-Total	WG770912-2	VA-HIGH-WATRM	0.262	0.25	mg/L	105	90-110	
Water	CRM	Copper (Cu)-Total	WG770912-2	VA-HIGH-WATRM	0.259	0.25	mg/L	103	90-110	
Water	CRM	Iron (Fe)-Total	WG770912-2	VA-HIGH-WATRM	0.967	1	mg/L	97	90-110	
Water	CRM	Lead (Pb)-Total	WG770912-2	VA-HIGH-WATRM	0.521	0.5	mg/L	104	90-110	
Water	CRM	Lithium (Li)-Total	WG770912-2	VA-HIGH-WATRM	0.25	0.25	mg/L	101	90-110	
Water	CRM	Magnesium (Mg)-Total	WG770912-2	VA-HIGH-WATRM	53.8	50	mg/L	108	85-115	
Water	CRM	Manganese (Mn)-Total	WG770912-2	VA-HIGH-WATRM	0.264	0.25	mg/L	106	90-110	
Water	CRM	Molybdenum (Mo)-Total	WG770912-2	VA-HIGH-WATRM	0.271	0.25	mg/L	108	90-110	
Water	CRM	Nickel (Ni)-Total	WG770912-2	VA-HIGH-WATRM	0.512	0.5	mg/L	102	90-110	
Water	CRM	Phosphorus (P)-Total	WG770912-2	VA-HIGH-WATRM	2.46	2.5	mg/L	98	90-110	
Water	CRM	Potassium (K)-Total	WG770912-2	VA-HIGH-WATRM	52.7	50	mg/L	105	85-115	
Water	CRM	Selenium (Se)-Total	WG770912-2	VA-HIGH-WATRM	1.05	1	mg/L	105	90-110	
Water	CRM	Silicon (Si)-Total	WG770912-2	VA-HIGH-WATRM	1.02	1	mg/L	102	90-110	
Water	CRM	Silver (Ag)-Total	WG770912-2	VA-HIGH-WATRM	0.102	0.1	mg/L	102	90-110	
Water	CRM	Sodium (Na)-Total	WG770912-2	VA-HIGH-WATRM	53.4	50	mg/L	107	85-115	
Water	CRM	Strontium (Sr)-Total	WG770912-2	VA-HIGH-WATRM	0.265	0.25	mg/L	106	90-110	
Water	CRM	Thallium (Tl)-Total	WG770912-2	VA-HIGH-WATRM	1.04	1	mg/L	104	85-115	
Water	CRM	Tin (Sn)-Total	WG770912-2	VA-HIGH-WATRM	0.518	0.5	mg/L	104	90-110	
Water	CRM	Titanium (Ti)-Total	WG770912-2	VA-HIGH-WATRM	0.248	0.25	mg/L	99	90-110	
Water	CRM	Uranium (U)-Total	WG770912-2	VA-HIGH-WATRM	0.00523	0.005	mg/L	105	90-110	
Water	CRM	Vanadium (V)-Total	WG770912-2	VA-HIGH-WATRM	0.529	0.5	mg/L	106	90-110	
Water	CRM	Zinc (Zn)-Total	WG770912-2	VA-HIGH-WATRM	0.521	0.5	mg/L	104	85-115	
Water	CRM	Mercury (Hg)-Dissolved	WG772002-2	VA-HG-WATRM	0.000101	0.0001	mg/L	101	88-112	
Water	CRM	Mercury (Hg)-Total	WG772002-2	VA-HG-WATRM	0.000101	0.0001	mg/L	101	88-112	
Water	CRM	Mercury (Hg)-Dissolved	WG772780-2	VA-HG-WATRM	0.0001	0.0001	mg/L	100	88-112	
Water	CRM	Mercury (Hg)-Total	WG772780-2	VA-HG-WATRM	0.0001	0.0001	mg/L	100	88-112	
Water	MB	Aluminum (Al)-Total	WG768575-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Antimony (Sb)-Total	WG768575-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Arsenic (As)-Total	WG768575-1		<0.000030	<0.00003	mg/L	-	0.00003	
Water	MB	Barium (Ba)-Total	WG768575-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Beryllium (Be)-Total	WG768575-1		<0.00020	<0.0002	mg/L	-	0.0002	
Water	MB	Bismuth (Bi)-Total	WG768575-1		<0.00050	<0.0005	mg/L	-	0.0005	
Water	MB	Boron (B)-Total	WG768575-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Cadmium (Cd)-Total	WG768575-1		<0.000017	<0.000017	mg/L	-	0.000017	
Water	MB	Calcium (Ca)-Total	WG768575-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Chromium (Cr)-Total	WG768575-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Cobalt (Co)-Total	WG768575-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Copper (Cu)-Total	WG768575-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Iron (Fe)-Total	WG768575-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Lead (Pb)-Total	WG768575-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Lithium (Li)-Total	WG768575-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Magnesium (Mg)-Total	WG768575-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Manganese (Mn)-Total	WG768575-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Molybdenum (Mo)-Total	WG768575-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Nickel (Ni)-Total	WG768575-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Phosphorus (P)-Total	WG768575-1		<0.30	<0.3	mg/L	-	0.3	
Water	MB	Potassium (K)-Total	WG768575-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Selenium (Se)-Total	WG768575-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Silicon (Si)-Total	WG768575-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Silver (Ag)-Total	WG768575-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Sodium (Na)-Total	WG768575-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Strontium (Sr)-Total	WG768575-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Thallium (Tl)-Total	WG768575-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Tin (Sn)-Total	WG768575-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Titanium (Ti)-Total	WG768575-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Uranium (U)-Total	WG768575-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Vanadium (V)-Total	WG768575-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Zinc (Zn)-Total	WG768575-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Aluminum (Al)-Total	WG770912-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Antimony (Sb)-Total	WG770912-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Arsenic (As)-Total	WG770912-1		<0.000030	<0.00003	mg/L	-	0.00003	
Water	MB	Barium (Ba)-Total	WG770912-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Beryllium (Be)-Total	WG770912-1		<0.00020	<0.0002	mg/L	-	0.0002	
Water	MB	Bismuth (Bi)-Total	WG770912-1		<0.00050	<0.0005	mg/L	-	0.0005	
Water	MB	Boron (B)-Total	WG770912-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Cadmium (Cd)-Total	WG770912-1		<0.000017	<0.000017	mg/L	-	0.000017	
Water	MB	Calcium (Ca)-Total	WG770912-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Chromium (Cr)-Total	WG770912-1		0.00011	<0.0001	mg/L	-	0.0001	MB-LOR
Water	MB	Cobalt (Co)-Total	WG770912-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Copper (Cu)-Total	WG770912-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Iron (Fe)-Total	WG770912-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Lead (Pb)-Total	WG770912-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Lithium (Li)-Total	WG770912-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Magnesium (Mg)-Total	WG770912-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Manganese (Mn)-Total	WG770912-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Molybdenum (Mo)-Total	WG770912-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Nickel (Ni)-Total	WG770912-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Phosphorus (P)-Total	WG770912-1		<0.30	<0.3	mg/L	-	0.3	
Water	MB	Potassium (K)-Total	WG770912-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Selenium (Se)-Total	WG770912-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Silicon (Si)-Total	WG770912-1		<0.050	<0.05	mg/L	-	0.05	

QUALITY CONTROL RESULTS

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Water	MB	Silver (Ag)-Total	WG770912-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Sodium (Na)-Total	WG770912-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Strontium (Sr)-Total	WG770912-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Thallium (Tl)-Total	WG770912-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Tin (Sn)-Total	WG770912-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Titanium (Ti)-Total	WG770912-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Uranium (U)-Total	WG770912-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Vanadium (V)-Total	WG770912-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Zinc (Zn)-Total	WG770912-1		0.0023	<0.001	mg/L	-	0.001	MB-LOR
Water	MB	Mercury (Hg)-Dissolved	WG772002-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Mercury (Hg)-Total	WG772002-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Mercury (Hg)-Dissolved	WG772780-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Mercury (Hg)-Total	WG772780-1		<0.000010	<0.00001	mg/L	-	0.00001	
Dissolved Metals										
Water	CRM	Aluminum (Al)-Dissolved	WG768591-4	VA-HIGH-WATRM	2.1	2	mg/L	105	90-110	
Water	CRM	Barium (Ba)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.264	0.25	mg/L	105	90-110	
Water	CRM	Bismuth (Bi)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.994	1	mg/L	99	90-110	
Water	CRM	Calcium (Ca)-Dissolved	WG768591-4	VA-HIGH-WATRM	52.3	50	mg/L	105	85-115	
Water	CRM	Cobalt (Co)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.262	0.25	mg/L	105	90-110	
Water	CRM	Copper (Cu)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.258	0.25	mg/L	103	90-110	
Water	CRM	Iron (Fe)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.956	1	mg/L	96	90-110	
Water	CRM	Lead (Pb)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.519	0.5	mg/L	104	90-110	
Water	CRM	Lithium (Li)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.25	0.25	mg/L	100	90-110	
Water	CRM	Magnesium (Mg)-Dissolved	WG768591-4	VA-HIGH-WATRM	52.8	50	mg/L	106	85-115	
Water	CRM	Manganese (Mn)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.261	0.25	mg/L	104	90-110	
Water	CRM	Molybdenum (Mo)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.269	0.25	mg/L	107	90-110	
Water	CRM	Phosphorus (P)-Dissolved	WG768591-4	VA-HIGH-WATRM	2.49	2.5	mg/L	99	90-110	
Water	CRM	Potassium (K)-Dissolved	WG768591-4	VA-HIGH-WATRM	51.7	50	mg/L	103	85-115	
Water	CRM	Silicon (Si)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.982	1	mg/L	98	90-110	
Water	CRM	Silver (Ag)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.101	0.1	mg/L	101	90-110	
Water	CRM	Strontium (Sr)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.262	0.25	mg/L	105	90-110	
Water	CRM	Tin (Sn)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.53	0.5	mg/L	106	90-110	
Water	CRM	Titanium (Ti)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.242	0.25	mg/L	97	90-110	
Water	CRM	Uranium (U)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.00549	0.005	mg/L	110	90-110	
Water	CRM	Zinc (Zn)-Dissolved	WG768591-4	VA-HIGH-WATRM	0.525	0.5	mg/L	105	85-115	
Water	CRM	Mercury (Hg)-Dissolved	WG772002-2	VA-HG-WATRM	0.000101	0.0001	mg/L	101	88-112	
Water	CRM	Mercury (Hg)-Total	WG772002-2	VA-HG-WATRM	0.000101	0.0001	mg/L	101	88-112	
Water	CRM	Mercury (Hg)-Dissolved	WG772780-2	VA-HG-WATRM	0.0001	0.0001	mg/L	100	88-112	
Water	CRM	Mercury (Hg)-Total	WG772780-2	VA-HG-WATRM	0.0001	0.0001	mg/L	100	88-112	
Water	MB	Aluminum (Al)-Dissolved	WG768591-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Barium (Ba)-Dissolved	WG768591-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Bismuth (Bi)-Dissolved	WG768591-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Calcium (Ca)-Dissolved	WG768591-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Cobalt (Co)-Dissolved	WG768591-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Copper (Cu)-Dissolved	WG768591-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Iron (Fe)-Dissolved	WG768591-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Lead (Pb)-Dissolved	WG768591-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Lithium (Li)-Dissolved	WG768591-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Magnesium (Mg)-Dissolved	WG768591-1		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Manganese (Mn)-Dissolved	WG768591-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Mercury (Hg)-Dissolved	WG768591-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Molybdenum (Mo)-Dissolved	WG768591-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Phosphorus (P)-Dissolved	WG768591-1		<0.30	<0.3	mg/L	-	0.3	
Water	MB	Potassium (K)-Dissolved	WG768591-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Silicon (Si)-Dissolved	WG768591-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Silver (Ag)-Dissolved	WG768591-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Strontium (Sr)-Dissolved	WG768591-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Tin (Sn)-Dissolved	WG768591-1		<0.00010	<0.0001	mg/L	-	0.0001	
Water	MB	Titanium (Ti)-Dissolved	WG768591-1		<0.010	<0.01	mg/L	-	0.01	
Water	MB	Uranium (U)-Dissolved	WG768591-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Zinc (Zn)-Dissolved	WG768591-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Mercury (Hg)-Dissolved	WG772002-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Mercury (Hg)-Total	WG772002-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Mercury (Hg)-Dissolved	WG772780-1		<0.000010	<0.00001	mg/L	-	0.00001	
Water	MB	Mercury (Hg)-Total	WG772780-1		<0.000010	<0.00001	mg/L	-	0.00001	
Organic Parameters										
Water	CRM	Total Organic Carbon	WG772353-2	VA-TOC-C-CAFFEINE	9.28	8.57	mg/L	108	85-115	
Water	CRM	Total Organic Carbon	WG772353-4	VA-TOC-C-CAFFEINE	9.02	8.57	mg/L	105	85-115	
Water	CRM	Total Organic Carbon	WG772353-6	VA-TOC-C-CAFFEINE	9.45	8.57	mg/L	110	85-115	
Water	CRM	Total Organic Carbon	WG772353-10	VA-TOC-C-CAFFEINE	8.47	8.57	mg/L	99	85-115	
Water	CRM	Total Organic Carbon	WG772353-12	VA-TOC-C-CAFFEINE	8.09	8.57	mg/L	94	85-115	
Water	MB	Total Organic Carbon	WG772353-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Total Organic Carbon	WG772353-3		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Total Organic Carbon	WG772353-5		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Total Organic Carbon	WG772353-7		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Total Organic Carbon	WG772353-11		<0.50	<0.5	mg/L	-	0.5	

Report to: Dr. David Mchaina		Report Format / Distribution		Service Requested:	
Company: Victory Nickel Inc.		Email 1: dmchaina@hotmail.com		Regular Service (Default)	
Contact: #1802-80 Richmond Street		Email 2:		Rush Service (2-3 Days)	
Address: Toronto, Ont. M5H 1A4		Analysis Request		Priority Service (1 Day or ASAP)	
Phone: (519) 241-9655 Fax: (416) 626-0890		Indicate Bottles: Filtered / Preserved (F/P)		Emergency Service (<1 Day / Weekend) - Contact ALS	
Company: same as above		Client / Project Information:			
Contact:		Job #: Mirago Project			
Address:		PO/A/E:			
Sample:		Legal Site Description: Mirago Project			
Phone:		Quote #: ALS-E007-480			
Work Order #		ALS		Bryan Mark	
Lab use only		Contact:		Sampler	
Sample Identification		Date		Time	
# (This description will appear on the report)		dd-mm-yy		hh:mm	
				Sample Type	
				(Select from drop-down list)	
1 MRW/3		May 6, 2007		water	
2 OCW2		May 7, 2007		water	
3 OCW3		May 7, 2007		water	
4 MRW2x		May 7, 2007		water	
5 William Lake		May 7, 2007		water	
6 WRAOC		May 8, 2007		water	
7 OCAWR		May 8, 2007		water	
8 WRW1x		May 9, 2007		water	
9 OCW1		May 9, 2007		water	
10 HRW1		May 9, 2007		water	
11 MRW1		May 9, 2007		water	
12 Cross Lake		May 9, 2007		water	
13 Field Blank		May 8, 2007		water	
14 Travel Blank		May 9, 2007		water	
15 Fitter Blank		May 9, 2007		water	
16					
Guidelines / Regulations		Special Instructions / Hazardous Details			

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the adjacent worksheet.

Retrievished By:	Date & Time:	Received By:	Date & Time:	Sample Condition (lab use only)	Temperature	Samples Received in Good Condition? (if no provided details)
By:		By:		HP	16	Y N
Retrievished By:	Date & Time:	Received By:	Date & Time:	08105122		

KE Rev
 May 11, 2008

APPENDIX L7.6

Certified Laboratory Reports for Groundwater Quality

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APPENDIX L7.6-A

Certified Laboratory Reports for Groundwater Quality

March 6-22, 2007 Results

Your Project #: 065133-02-02MINAGO HYDROGEOLOG
Your C.O.C. #: F23414

Attention: Alison Reineke
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 2M8

Report Date: 2007/03/21

This report supersedes all previous reports

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A708605
Received: 2007/03/03, 11:00

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water	2	2007/03/06	2007/03/06	ING413 Rev.1.7	Based on SM2320B
Chloride by Automated Colourimetry (†)	2	N/A	2007/03/08	BRN-SOP 00116	Based on EPA 325.2
Conductance - water	2	N/A	2007/03/06	ING413 REV 1.7	Based on SM-2510B
Fluoride	2	N/A	2007/03/07	ING222 Rev.4.2	Based SM - 4500 F C
Hardness Total (calculated as CaCO3)	2	N/A	2007/03/19		
Hardness (calculated as CaCO3)	2	N/A	2007/03/06		
Mercury (Dissolved)	2	2007/03/07	2007/03/08	BRN SOP-00044 V1.0	Based on EPA 245.1
Elements by ICP-AES (dissolved)	2	2007/03/07	2007/03/07	BRN SOP-00040 V1.0	Based on EPA 6010B
Elements by ICPMS (dissolved) (†)	2	2007/03/07	2007/03/07	BRN SOP-00042 V1.0	Based on EPA 200.8
Elements by ICP-AES (total)	2	N/A	2007/03/20	BRN SOP-00040 V1.0	Based on EPA 6010B
Nitrogen (Total)	2	2007/03/06	2007/03/06	ING246 Rev.1.4	Based on SM-4500N C
Ammonia (N)	2	N/A	2007/03/07	ING232 Rev.3.5	Based on SM-4500MH3G
Nitrate+Nitrite (N) (low level)	2	N/A	2007/03/08	ING233 Rev.4.4	Based on EPA 353.2
Nitrite (N) (low level)	2	N/A	2007/03/08	ING233 Rev.4.4	EPA 353.2
Nitrogen - Nitrate (as N)	2	N/A	2007/03/06		
Filter and HNO3 Preserve for Metals	2	2007/03/06	2007/03/07	BRN WI-00006 V1.0	Based on EPA 200.2
pH Water	2	N/A	2007/03/06	BRN SOP-00014 V2.0	Based on SM-4500H+B
Sulphate by Automated Colourimetry (†)	2	N/A	2007/03/08	BRN-SOP 00117 V1.0	Based on EPA 375.4
Sublet (ORGANICS)	2	N/A	2007/03/14		
Total Dissolved Solids (Filt. Residue)	2	N/A	2007/03/07	BRN-00029/2	APHA 2540
TKN (Calc. TN, N/N) total	2	N/A	2007/03/06		
Phosphorus-P (Total, dissolved) (†)	2	2007/03/07	2007/03/09	ING 237 Rev 5.0	S M - 4 5 0 0 P F
Turbidity	2	N/A	2007/03/06	BRN SOP-00021 V2.0	SM - 2130B

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) SCC/CAEAL

./2

L7.6-3

Your Project #: 065133-02-02MINAGO HYDROGEOLOG
Your C.O.C. #: F23414

Attention: Alison Reineke
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 2M8

Report Date: 2007/03/21

CERTIFICATE OF ANALYSIS

Encryption Key  Rob MacArthur
21 Mar 2007 16:41:41 -07:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

ROB MACARTHUR, Customer Service Rep
Email: rob.macarthur@maxxamanalytics.com
Phone# (604) 444-4808 Ext:253

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Maxxam Job #: A708605
Report Date: 2007/03/21

WARDROP ENGINEERING INC. **L7.6-4**
Client Project #: 065133-02-02MINAGO HYDROGEOLOG
Site Reference:
Sampler Initials: PS

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		E 5 6 3 7 1	E 5 6 3 7 2		
Sampling Date		2007/03/01	2007/03/01		
COC Number		8:45 F23414	10:30 F23414		
	Units	OB	OB2	RDL	QC Batch
Misc. Inorganics					
Fluoride (F)	mg/L	0.11	0.10	0.01	1509377
Parameter					
Subcontract Parameter	N/A	ATTACHED	ATTACHED	N/A	1523529
Preparation					
Filter and HNO3 Preservation	N/A	Yes	Yes	N/A	1508199
Calculated Parameters					
Total Hardness (CaCO3)	mg/L	471	277	0.5	1531298
Nitrate (N)	mg/L	0.008	0.009	0.002	1507120
Misc. Inorganics					
Dissolved Hardness (CaCO3)	mg/L	274	231	0.5	1507119
Alkalinity (Total as CaCO3)	mg/L	289	250	0.5	1506914
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	0.5	1506914
Bicarbonate (HCO3)	mg/L	352	305	0.5	1506914
Carbonate (CO3)	mg/L	<0.5	<0.5	0.5	1506914
Hydroxide (OH)	mg/L	<0.5	<0.5	0.5	1506914
Anions					
Dissolved Sulphate (SO4)	mg/L	9.2	<0.5	0.5	1511583
Chloride (Cl)	mg/L	0.6	<0.5	0.5	1511552
Nutrients					
Total Kjeldahl Nitrogen (Calc)	mg/L	0.90	0.93	0.02	1507130
Dissolved Phosphorus (P)	mg/L	0.033	0.171	0.002	1511185
Ammonia (N)	mg/L	<0.005	<0.005	0.005	1509608
Nitrate plus Nitrite (N)	mg/L	0.019	0.014	0.002	1511767
Nitrite (N)	mg/L	0.011	0.005	0.002	1511790
Total Nitrogen (N)	mg/L	0.92	0.94	0.02	1507322
Physical Properties					
Conductivity	uS/cm	539	461	1	1506913
pH	pH Units	8.0	7.8	0.1	1506910
Physical Properties					
Total Dissolved Solids	mg/L	378	314	1	1507563
Turbidity	NTU	1450	131	0.1	1506089
RDL = Reportable Detection Limit					

Maxxam Job #: A708605
Report Date: 2007/03/21

WARDROP ENGINEERING INC. **L7.6-5**
Client Project #: 065133-02-02MINAGO HYDROGEOLOG
Site Reference:
Sampler Initials: PS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID	E 5 6 3 7 1	E 5 6 3 7 2		
Sampling Date	2007/03/01	2007/03/01		
	8:45	10:30		
COC Number	F23414	F23414		
	Units	OB	OB2	RDL QC Batch

Low Level Elements					
Dissolved Mercury (Hg)	mg/L	<0.00005	<0.00005	0.00005	1510436
Dissolved Metals by ICP					
Dissolved Boron (B)	mg/L	0.011	0.008	0.008	1511170
Dissolved Calcium (Ca)	mg/L	72.1	59.8	0.05	1511170
Dissolved Iron (Fe)	mg/L	0.064	0.213	0.005	1511170
Dissolved Magnesium (Mg)	mg/L	22.7	19.9	0.05	1511170
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	0.1	1511170
Dissolved Silicon (Si)	mg/L	4.26	3.48	0.05	1511170
Dissolved Sodium (Na)	mg/L	6.68	5.55	0.05	1511170
Dissolved Sulphur (S)	mg/L	3.3	1.1	0.1	1511170
Dissolved Zirconium (Zr)	mg/L	<0.005	<0.005	0.005	1511170
Dissolved Metals by ICPMS					
Dissolved Aluminum (Al)	mg/L	0.0151	0.0221	0.0002	1509434
Dissolved Antimony (Sb)	mg/L	0.00022	0.00011	0.00005	1509434
Dissolved Arsenic (As)	mg/L	0.0020	0.0015	0.0001	1509434
Dissolved Barium (Ba)	mg/L	0.0670	0.0569	0.00002	1509434
Dissolved Beryllium (Be)	mg/L	<0.00005	<0.00005	0.00005	1509434
Dissolved Bismuth (Bi)	mg/L	<0.00005	<0.00005	0.00005	1509434
Dissolved Cadmium (Cd)	mg/L	0.00017	0.00009	0.00001	1509434
Dissolved Chromium (Cr)	mg/L	0.0012	0.0011	0.0002	1509434
Dissolved Cobalt (Co)	mg/L	0.00485	0.00609	0.00002	1509434
Dissolved Copper (Cu)	mg/L	0.0042	0.0026	0.0001	1509434
Dissolved Lead (Pb)	mg/L	0.00007	0.00011	0.00002	1509434
Dissolved Lithium (Li)	mg/L	0.0063	0.0062	0.0002	1509434
Dissolved Manganese (Mn)	mg/L	0.424	0.386	0.00002	1509434
Dissolved Molybdenum (Mo)	mg/L	0.00072	0.00088	0.00002	1509434
Dissolved Nickel (Ni)	mg/L	0.0138	0.0184	0.0005	1509434
Dissolved Potassium (K)	mg/L	0.77	0.75	0.05	1509434
Dissolved Selenium (Se)	mg/L	<0.0005	<0.0005	0.0005	1509434
Dissolved Silver (Ag)	mg/L	<0.00001	<0.00001	0.00001	1509434
Dissolved Strontium (Sr)	mg/L	0.146	0.127	0.00001	1509434
Dissolved Thallium (Tl)	mg/L	<0.00005	<0.00005	0.00005	1509434

RDL = Reportable Detection Limit

Maxxam Job #: A708605
Report Date: 2007/03/21

WARDROP ENGINEERING INC. **L7.6-6**
Client Project #: 065133-02-02MINAGO HYDROGEOLOG
Site Reference:
Sampler Initials: PS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		E 5 6 3 7 1	E 5 6 3 7 2		
Sampling Date		2007/03/01 8:45	2007/03/01 10:30		
COC Number		F23414	F23414		
	Units	OB	OB2	RDL	QC Batch

Dissolved Tin (Sn)	mg/L	<0.00005	<0.00005	0.00005	1509434
Dissolved Titanium (Ti)	mg/L	0.0006	0.0006	0.0005	1509434
Dissolved Uranium (U)	mg/L	0.00117	0.00048	0.00001	1509434
Dissolved Vanadium (V)	mg/L	0.00067	0.00049	0.00005	1509434
Dissolved Zinc (Zn)	mg/L	0.0236	0.0204	0.0005	1509434
Total Metals by ICP					
Total Calcium (Ca)	mg/L	113	70.2	0.05	1534000
Total Magnesium (Mg)	mg/L	45.7	24.7	0.05	1534000

RDL = Reportable Detection Limit

Maxxam Job #: A708605
Report Date: 2007/03/21

WARDROP ENGINEERING INC. **L7.6-7**
Client Project #: 065133-02-02MINAGO HYDROGEOLOG
Site Reference:
Sampler Initials: PS

General Comments

Results relate only to the items tested.

WARDROP ENGINEERING INC. **L7.6-8**
 Attention: Alison Reineke
 Client Project #: 065133-02-02MINAGO HYDROGEOLOG
 P.O. #:
 Site Reference:

Quality Assurance Report
 Maxxam Job Number: VA708605

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1506089 CK	SPIKE	Turbidity	2007/03/06		101	%	80 - 120
	BLANK	Turbidity	2007/03/06	<0.1		NTU	
	RPD [E 5 6 3 7021-]	Turbidity	2007/03/06	1.5		%	25
1506910 MM3	SPIKE	pH	2007/03/06		102	%	96 - 104
	RPD [E 5 6 3 7021-]	pH	2007/03/06	0.3		%	25
1506913 MM3	SPIKE	Conductivity	2007/03/06		101	%	80 - 120
	BLANK	Conductivity	2007/03/06	<1		uS/cm	
	RPD [E 5 6 3 7021-]	Conductivity	2007/03/06	0.7		%	25
1506914 MM3	MATRIX SPIKE	Alkalinity (Total as CaCO3)	2007/03/06		92	%	N/A
	SPIKE	Alkalinity (Total as CaCO3)	2007/03/06		97	%	80 - 120
	BLANK	Alkalinity (Total as CaCO3)	2007/03/06	0.5, RDL=0.5		mg/L	
		Alkalinity (PP as CaCO3)	2007/03/06	<0.5		mg/L	
		Bicarbonate (HCO3)	2007/03/06	0.7, RDL=0.5		mg/L	
		Carbonate (CO3)	2007/03/06	<0.5		mg/L	
		Hydroxide (OH)	2007/03/06	<0.5		mg/L	
	RPD [E 5 6 3 7021-]	Alkalinity (Total as CaCO3)	2007/03/06	1.2		%	25
		Alkalinity (PP as CaCO3)	2007/03/06	NC		%	25
		Bicarbonate (HCO3)	2007/03/06	1.2		%	25
		Carbonate (CO3)	2007/03/06	NC		%	25
	Hydroxide (OH)	2007/03/06	NC		%	25	
1507322 MX	MATRIX SPIKE	Total Nitrogen (N)	2007/03/06		98	%	80 - 120
	SPIKE	Total Nitrogen (N)	2007/03/06		95	%	80 - 120
	BLANK	Total Nitrogen (N)	2007/03/06	<0.02		mg/L	
	RPD	Total Nitrogen (N)	2007/03/06	3.6		%	25
1507563 VL	MATRIX SPIKE	Total Dissolved Solids	2007/03/07		100	%	N/A
	[E56372-01]	Total Dissolved Solids	2007/03/07		108	%	80 - 120
	SPIKE	Total Dissolved Solids	2007/03/07	<1		mg/L	
	BLANK	Total Dissolved Solids	2007/03/07	2.5		%	25
1508199 IC4	BLANK	Filter and HNO3 Preservation	2007/03/07	YES		N/A	
1509377 WAY	MATRIX SPIKE	Fluoride (F)	2007/03/07		95	%	80 - 120
	SPIKE	Fluoride (F)	2007/03/07		99	%	80 - 120
	BLANK	Fluoride (F)	2007/03/07	0.02, RDL=0.01		mg/L	
	RPD	Fluoride (F)	2007/03/07	NC		%	25
1509434 AA1	MATRIX SPIKE	Dissolved Arsenic (As)	2007/03/07		115	%	75 - 125
		Dissolved Cadmium (Cd)	2007/03/07		110	%	75 - 125
		Dissolved Chromium (Cr)	2007/03/07		106	%	75 - 125
		Dissolved Cobalt (Co)	2007/03/07		109	%	75 - 125
		Dissolved Copper (Cu)	2007/03/07		112	%	75 - 125
		Dissolved Lead (Pb)	2007/03/07		112	%	75 - 125
		Dissolved Selenium (Se)	2007/03/07		118	%	75 - 125
		Dissolved Thallium (Tl)	2007/03/07		113	%	75 - 125
		Dissolved Zinc (Zn)	2007/03/07		115	%	75 - 125
	SPIKE	Dissolved Arsenic (As)	2007/03/07		99	%	75 - 125
		Dissolved Cadmium (Cd)	2007/03/07		106	%	75 - 125
		Dissolved Chromium (Cr)	2007/03/07		119	%	75 - 125
		Dissolved Cobalt (Co)	2007/03/07		117	%	75 - 125
		Dissolved Copper (Cu)	2007/03/07		113	%	75 - 125
		Dissolved Lead (Pb)	2007/03/07		115	%	75 - 125
		Dissolved Selenium (Se)	2007/03/07		100	%	75 - 125
		Dissolved Thallium (Tl)	2007/03/07		116	%	75 - 125
		Dissolved Zinc (Zn)	2007/03/07		109	%	75 - 125
	BLANK	Dissolved Aluminum (Al)	2007/03/07	<0.2		ug/L	
		Dissolved Antimony (Sb)	2007/03/07	<0.05		ug/L	
	Dissolved Arsenic (As)	2007/03/07	<0.1		ug/L		

WARDROP ENGINEERING INC. **L7.6-9**
 Attention: Alison Reineke
 Client Project #: 065133-02-02MINAGO HYDROGEOLOG
 P.O. #:
 Site Reference:

Quality Assurance Report (Continued)
 Maxxam Job Number: VA708605

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1509434 AA1	BLANK	Dissolved Barium (Ba)	2007/03/07	<0.02		ug/L		
		Dissolved Beryllium (Be)	2007/03/07	<0.05		ug/L		
		Dissolved Bismuth (Bi)	2007/03/07	<0.05		ug/L		
		Dissolved Cadmium (Cd)	2007/03/07	<0.01		ug/L		
		Dissolved Chromium (Cr)	2007/03/07	<0.2		ug/L		
		Dissolved Cobalt (Co)	2007/03/07	<0.02		ug/L		
		Dissolved Copper (Cu)	2007/03/07	<0.1		ug/L		
		Dissolved Lead (Pb)	2007/03/07	<0.02		ug/L		
		Dissolved Lithium (Li)	2007/03/07	<0.2		ug/L		
		Dissolved Manganese (Mn)	2007/03/07	<0.02		ug/L		
		Dissolved Molybdenum (Mo)	2007/03/07	<0.02		ug/L		
		Dissolved Nickel (Ni)	2007/03/07	<0.5		ug/L		
		Dissolved Potassium (K)	2007/03/07	<50		ug/L		
		Dissolved Selenium (Se)	2007/03/07	<0.5		ug/L		
		Dissolved Silver (Ag)	2007/03/07	<0.01		ug/L		
		Dissolved Strontium (Sr)	2007/03/07	<0.01		ug/L		
		Dissolved Thallium (Tl)	2007/03/07	<0.05		ug/L		
		Dissolved Tin (Sn)	2007/03/07	<0.05		ug/L		
		Dissolved Titanium (Ti)	2007/03/07	<0.5		ug/L		
		Dissolved Uranium (U)	2007/03/07	<0.01		ug/L		
	Dissolved Vanadium (V)	2007/03/07	<0.05		ug/L			
	Dissolved Zinc (Zn)	2007/03/07	<0.5		ug/L			
	RPD	Dissolved Aluminum (Al)	2007/03/07	1.4		%	25	
		Dissolved Antimony (Sb)	2007/03/07	NC		%	25	
		Dissolved Arsenic (As)	2007/03/07	NC		%	25	
		Dissolved Barium (Ba)	2007/03/07	0.3		%	25	
		Dissolved Beryllium (Be)	2007/03/07	NC		%	25	
		Dissolved Bismuth (Bi)	2007/03/07	NC		%	25	
		Dissolved Cadmium (Cd)	2007/03/07	NC		%	25	
		Dissolved Chromium (Cr)	2007/03/07	NC		%	25	
Dissolved Cobalt (Co)		2007/03/07	NC		%	25		
Dissolved Copper (Cu)		2007/03/07	1.1		%	25		
1509608 NN	MATRIX SPIKE	Ammonia (N)	2007/03/07		108	%	80 - 120	
		Ammonia (N)	2007/03/07		99	%	80 - 120	
	BLANK	Ammonia (N)	2007/03/07	<0.005		mg/L		
		Ammonia (N)	2007/03/07	NC		%	25	
	1510436 JT3	MATRIX SPIKE	Dissolved Mercury (Hg)	2007/03/08		104	%	70 - 130
			Dissolved Mercury (Hg)	2007/03/08		101	%	80 - 120
		QC STANDARD	Dissolved Mercury (Hg)	2007/03/08		98	%	80 - 120
			Dissolved Mercury (Hg)	2007/03/08	<0.05		ug/L	

WARDROP ENGINEERING INC. **L7.6-10**
 Attention: Alison Reineke
 Client Project #: 065133-02-02MINAGO HYDROGEOLOG
 P.O. #:
 Site Reference:

Quality Assurance Report (Continued)
 Maxxam Job Number: VA708605

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1510436 JT3	RPD	Dissolved Mercury (Hg)	2007/03/08	NC		%	25
1511170 GS2	BLANK	Dissolved Boron (B)	2007/03/07	<0.008		mg/L	
		Dissolved Calcium (Ca)	2007/03/07	<0.05		mg/L	
		Dissolved Iron (Fe)	2007/03/07	<0.005		mg/L	
		Dissolved Magnesium (Mg)	2007/03/07	<0.05		mg/L	
		Dissolved Phosphorus (P)	2007/03/07	<0.1		mg/L	
		Dissolved Silicon (Si)	2007/03/07	<0.05		mg/L	
		Dissolved Sodium (Na)	2007/03/07	<0.05		mg/L	
		Dissolved Sulphur (S)	2007/03/07	<0.1		mg/L	
		Dissolved Zirconium (Zr)	2007/03/07	<0.005		mg/L	
	RPD	Dissolved Calcium (Ca)	2007/03/07	0.4		%	25
		Dissolved Magnesium (Mg)	2007/03/07	NC		%	25
1511185 BB3	MATRIX SPIKE	Dissolved Phosphorus (P)	2007/03/09		86	%	80 - 120
	SPIKE	Dissolved Phosphorus (P)	2007/03/09		94	%	80 - 120
	BLANK	Dissolved Phosphorus (P)	2007/03/09	<0.002		mg/L	
	RPD	Dissolved Phosphorus (P)	2007/03/09	NC		%	20
1511552 NN	MATRIX SPIKE	Chloride (Cl)	2007/03/08		96	%	80 - 120
	SPIKE	Chloride (Cl)	2007/03/08		101	%	80 - 120
	BLANK	Chloride (Cl)	2007/03/08	<0.5		mg/L	
	RPD	Chloride (Cl)	2007/03/08	1.5		%	20
1511583 NN	MATRIX SPIKE	Dissolved Sulphate (SO4)	2007/03/08		117	%	75 - 125
	SPIKE	Dissolved Sulphate (SO4)	2007/03/08		97	%	80 - 120
	BLANK	Dissolved Sulphate (SO4)	2007/03/08	<0.5		mg/L	
	RPD	Dissolved Sulphate (SO4)	2007/03/08	0.8		%	20
1511767 MX	MATRIX SPIKE	Nitrate plus Nitrite (N)	2007/03/08		105	%	80 - 120
	SPIKE	Nitrate plus Nitrite (N)	2007/03/08		104	%	80 - 120
	BLANK	Nitrate plus Nitrite (N)	2007/03/08	<0.002		mg/L	
	RPD	Nitrate plus Nitrite (N)	2007/03/08	2.1		%	25
1511790 MX	MATRIX SPIKE	Nitrite (N)	2007/03/08		101	%	80 - 120
	SPIKE	Nitrite (N)	2007/03/08		101	%	80 - 120
	BLANK	Nitrite (N)	2007/03/08	<0.002		mg/L	
	RPD	Nitrite (N)	2007/03/08	NC		%	25
1534000 GS2	BLANK	Total Calcium (Ca)	2007/03/20	<0.05		mg/L	
		Total Magnesium (Mg)	2007/03/20	<0.05		mg/L	
	RPD	Total Calcium (Ca)	2007/03/20	0.6		%	25
		Total Magnesium (Mg)	2007/03/20	0.6		%	25

N/A = Not Applicable
 NC = Non-calculable
 RPD = Relative Percent Difference

Burnaby: 8577 Commerce Court V5A 4N5 Telephone(604) 444-4808 Fax(604) 444-4511

A708605

ANALYSIS REQUEST

F 23414

COMPANY NAME: **Wardrop Engineering**
 PH. #: (204) 956-0980
 E-mail: alison.reineke@wardrop.com
 FAX #: (204) 957-5389

COMPANY ADDRESS:
 Atn: Alison Reineke
 400-386 Broadway
 Upeg MB R3C 4M8

SAMPLER NAME (PRINT): **Patrick Solylo**
 PROJECT MANAGER: **Doug Ramsey**

CLIENT PROJECT ID: (#)
 065133-02-02
 Mirago Hydrogeology

FIELD SAMPLE ID	MAXXAM LAB # (Lab Use Only)	MATRIX				# CONTAINERS	SAMPLING			HEADSPACE VAPOUR	TDS	dissolved metals & Hg	tot. Hard (carb, bicarb, hydrox)	tot Radium 226	turbid, total alkalinity	SO ₄ , NO ₂ , NO ₃ , TKN, Cl	diss P	NH ₄	pH, conductivity	Fluoride
		GROUND WATER	SURFACE WATER	SOIL	OTHER		DATE DD/MM/YY	TIME	HEADSPACE VAPOUR											
1 OB	E56 371	X				5	01/03/07	08:45	-	X	X	X	X	X	X	X	X	X	X	X
2 OB2	↓ 72	X				5	01/03/07	10:30	-	X	X	X	X	X	X	X	X	X	X	X
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

TAT (Turnaround Time)
<5 DAY TAT MUST HAVE PRIOR APPROVAL
 *some exceptions apply please contact lab

STANDARD 5 BUSINESS DAYS
 RUSH 3 BUSINESS DAYS
 RUSH 2 BUSINESS DAYS
 URGENT 1 BUSINESS DAY

OTHER BUSINESS DAYS _____

P.O. NUMBER / QUOTE NUMBER: _____
 SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: **krpt via e-mail as pdf & excel.**

ACCOUNTING CONTACT: _____
 SPECIAL REPORTING OR BILLING INSTRUCTIONS: **please report elements/metals in mg/L**

RELINQUISHED BY SAMPLER: **P. Solylo** DATE: **Mar 1/07** TIME: **15:30**
 RELINQUISHED BY: _____ DATE: _____ TIME: _____
 RELINQUISHED BY: _____ DATE: **Mar 3/07** TIME: **10:00 am**

ARRIVAL TEMPERATURE °C: _____ DUE DATE: **MAR 12/07** LOG IN CHECK: _____

JARS USED: _____

RECEIVED BY: _____
 RECEIVED BY: _____
 RECEIVED BY LABORATORY: **IT**

CUSTODY RECORD

L7.6-11

L7.6-12

Your Project #: 065133-02-02MINAGO HYDREOLOGY
Your C.O.C. #: F23392

Attention: Alison Reineke
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 2M8

Report Date: 2007/03/23

This report supersedes all previous reports

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A709269
Received: 2007/03/08, 12:35

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water	3	2007/03/09	2007/03/09	ING413 Rev.1.7	Based on SM2320B
Chloride by Automated Colourimetry (†)	3	N/A	2007/03/12	BRN-SOP 00116	Based on EPA 325.2
Conductance - water	3	N/A	2007/03/09	ING413 REV 1.7	Based on SM-2510B
Fluoride	3	N/A	2007/03/09	ING222 Rev.4.2	Based SM - 4500 F C
Hardness Total (calculated as CaCO3)	3	N/A	2007/03/19		
Hardness (calculated as CaCO3)	3	N/A	2007/03/09		
Mercury (Dissolved)	3	2007/03/13	2007/03/14	BRN SOP-00044 V1.0	Based on EPA 245.1
Elements by ICP-AES (dissolved)	3	2007/03/14	2007/03/14	BRN SOP-00040 V1.0	Based on EPA 6010B
Elements by ICPMS (dissolved) (†)	3	2007/03/13	2007/03/14	BRN SOP-00042 V1.0	Based on EPA 200.8
Elements by ICP-AES (total)	3	N/A	2007/03/12	BRN SOP-00040 V1.0	Based on EPA 6010B
Nitrogen (Total)	3	2007/03/09	2007/03/09	ING246 Rev.1.4	Based on SM-4500N C
Ammonia (N)	3	N/A	2007/03/14	ING232 Rev.3.5	Based on SM-4500MH3G
Nitrate+Nitrite (N) (low level)	3	N/A	2007/03/12	ING233 Rev.4.4	Based on EPA 353.2
Nitrite (N) (low level)	3	N/A	2007/03/12	ING233 Rev.4.4	EPA 353.2
Nitrogen - Nitrate (as N)	3	N/A	2007/03/09		
pH Water	3	N/A	2007/03/09	BRN SOP-00014 V2.0	Based on SM-4500H+B
Sulphate by Automated Colourimetry (†)	3	N/A	2007/03/12	BRN-SOP 00117 V1.0	Based on EPA 375.4
Sublet (ORGANICS)	3	N/A	2007/03/23		
Total Dissolved Solids (Filt. Residue)	3	N/A	2007/03/15	BRN-00029/2	APHA 2540
TKN (Calc. TN, N/N) total	3	N/A	2007/03/09		
Phosphorus-P (Total, dissolved) (†)	3	2007/03/09	2007/03/09	ING 237 Rev 5.0	S M - 4 5 0 0 P F
Turbidity	3	N/A	2007/03/09	BRN SOP-00021 V2.0	SM - 2130B

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) SCC/CAEAL

..1/2

L7.6-13

Your Project #: 065133-02-02MINAGO HYDREOLOGY
Your C.O.C. #: F23392

Attention: Alison Reineke
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 2M8

Report Date: 2007/03/23

CERTIFICATE OF ANALYSIS

Encryption Key  Rob MacArthur
23 Mar 2007 10:09:22 -07:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

ROB MACARTHUR, Customer Service Rep
Email: rob.macarthur@maxxamanalytics.com
Phone# (604) 444-4808 Ext:253

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Total cover pages: 2

Burnaby: 8577 Commerce Court V5A 4N5 Telephone(604) 444-4808 Fax(604) 444-4511

Maxxam Job #: A709269
Report Date: 2007/03/23

WARDROP ENGINEERING INC. **L7.6-14**
Client Project #: 065133-02-02MINAGO HYDREOLOGY
Site Reference:
Sampler Initials: PS

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		E 6 1 0 9 1	E 6 1 0 9 2	E 6 1 0 9 3		
Sampling Date		2007/03/03 8:45	2007/03/03 14:00	2007/03/03		
COC Number		F23392	F23392	F23392		
	Units	LM	LM2	DUP A	RDL	QC Batch

Misc. Inorganics						
Fluoride (F)	mg/L	0.41	0.36	0.35	0.01	1513721
Parameter						
Subcontract Parameter	N/A	ATTACHED	ATTACHED	ATTACHED	N/A	1539096
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	287	307	304	0.5	1531214
Nitrate (N)	mg/L	0.008	0.005	0.003	0.002	1513970
Misc. Inorganics						
Dissolved Hardness (CaCO3)	mg/L	285	290	297	0.5	1513966
Alkalinity (Total as CaCO3)	mg/L	336	342	342	0.5	1513799
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	<0.5	0.5	1513799
Bicarbonate (HCO3)	mg/L	410	417	418	0.5	1513799
Carbonate (CO3)	mg/L	<0.5	<0.5	<0.5	0.5	1513799
Hydroxide (OH)	mg/L	<0.5	<0.5	<0.5	0.5	1513799
Anions						
Dissolved Sulphate (SO4)	mg/L	13.3	11.7	11.7	0.5	1517243
Chloride (Cl)	mg/L	17.8	15.4	12.9	0.5	1517063
Nutrients						
Total Kjeldahl Nitrogen (Calc)	mg/L	0.26	0.26	0.27	0.02	1513980
Dissolved Phosphorus (P)	mg/L	0.018	0.005	0.005	0.002	1514760
Ammonia (N)	mg/L	0.103	0.087	0.085	0.005	1522082
Nitrate plus Nitrite (N)	mg/L	0.013	0.010	0.005	0.002	1517257
Nitrite (N)	mg/L	0.005	0.005	0.002	0.002	1517279
Total Nitrogen (N)	mg/L	0.27	0.27	0.28	0.02	1514492
Physical Properties						
Conductivity	uS/cm	682	675	672	1	1513797
pH	pH Units	8.2	8.1	8.2	0.1	1513715
Physical Properties						
Total Dissolved Solids	mg/L	372	362	366	1	1521957
Turbidity	NTU	54.4	69.8	54.7	0.1	1511333
RDL = Reportable Detection Limit						

Maxxam Job #: A709269
Report Date: 2007/03/23

WARDROP ENGINEERING INC. **L7.6-15**
Client Project #: 065133-02-02MINAGO HYDREOLOGY
Site Reference:
Sampler Initials: PS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		E 6 1 0 9 1	E 6 1 0 9 2	E 6 1 0 9 3		
Sampling Date		2007/03/03 8:45	2007/03/03 14:00	2007/03/03		
COC Number		F23392	F23392	F23392		
	Units	LM	LM2	DUP A	RDL	QC Batch

Low Level Elements						
Dissolved Mercury (Hg)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1520507
Dissolved Metals by ICP						
Dissolved Boron (B)	mg/L	0.199	0.172	0.169	0.008	1524201
Dissolved Calcium (Ca)	mg/L	54.2	55.5	56.7	0.05	1524201
Dissolved Iron (Fe)	mg/L	0.011	0.049	0.031	0.005	1524201
Dissolved Magnesium (Mg)	mg/L	36.4	36.9	37.6	0.05	1524201
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	0.1	1524201
Dissolved Silicon (Si)	mg/L	4.97	5.14	5.24	0.05	1524201
Dissolved Sodium (Na)	mg/L	38.7	32.0	32.2	0.05	1524201
Dissolved Sulphur (S)	mg/L	5.8	4.7	4.7	0.1	1524201
Dissolved Zirconium (Zr)	mg/L	<0.005	<0.005	<0.005	0.005	1524201
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	mg/L	<0.0002	0.0007	0.0005	0.0002	1520945
Dissolved Antimony (Sb)	mg/L	0.00045	0.00033	0.00035	0.00005	1520945
Dissolved Arsenic (As)	mg/L	0.0003	0.0009	0.0008	0.0001	1520945
Dissolved Barium (Ba)	mg/L	0.111	0.0898	0.0904	0.00002	1520945
Dissolved Beryllium (Be)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1520945
Dissolved Bismuth (Bi)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1520945
Dissolved Cadmium (Cd)	mg/L	0.00003	0.00003	0.00002	0.00001	1520945
Dissolved Chromium (Cr)	mg/L	<0.0002	<0.0002	<0.0002	0.0002	1520945
Dissolved Cobalt (Co)	mg/L	0.00075	0.00069	0.00078	0.00002	1520945
Dissolved Copper (Cu)	mg/L	<0.0001	0.0241	0.0018	0.0001	1520945
Dissolved Lead (Pb)	mg/L	<0.00002	0.00161	0.00378	0.00002	1520945
Dissolved Lithium (Li)	mg/L	0.0299	0.0253	0.0256	0.0002	1520945
Dissolved Manganese (Mn)	mg/L	0.0824	0.0631	0.0659	0.00002	1520945
Dissolved Molybdenum (Mo)	mg/L	0.00320	0.00220	0.00222	0.00002	1520945
Dissolved Nickel (Ni)	mg/L	0.0023	0.0017	0.0017	0.0005	1520945
Dissolved Potassium (K)	mg/L	6.88	6.02	5.91	0.05	1520945
Dissolved Selenium (Se)	mg/L	<0.0005	<0.0005	<0.0005	0.0005	1520945
Dissolved Silver (Ag)	mg/L	0.00002	<0.00001	<0.00001	0.00001	1520945
Dissolved Strontium (Sr)	mg/L	0.328	0.310	0.316	0.00001	1520945
Dissolved Thallium (Tl)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1520945

RDL = Reportable Detection Limit

Maxxam Job #: A709269
Report Date: 2007/03/23

WARDROP ENGINEERING INC. **L7.6-16**
Client Project #: 065133-02-02MINAGO HYDREOLOGY
Site Reference:
Sampler Initials: PS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		E 6 1 0 9 1	E 6 1 0 9 2	E 6 1 0 9 3		
Sampling Date		2007/03/03 8:45	2007/03/03 14:00	2007/03/03		
COC Number		F23392	F23392	F23392		
	Units	LM	LM2	DUP A	RDL	QC Batch

Dissolved Tin (Sn)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1520945
Dissolved Titanium (Ti)	mg/L	<0.0005	<0.0005	<0.0005	0.0005	1520945
Dissolved Uranium (U)	mg/L	0.00052	0.00047	0.00050	0.00001	1520945
Dissolved Vanadium (V)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1520945
Dissolved Zinc (Zn)	mg/L	0.611	0.649	0.591	0.0005	1520945
Total Metals by ICP						
Total Calcium (Ca)	mg/L	55.7	59.7	59.0	0.05	1518337
Total Magnesium (Mg)	mg/L	35.9	38.4	38.2	0.05	1518337

RDL = Reportable Detection Limit

Maxxam Job #: A709269
Report Date: 2007/03/23

WARDROP ENGINEERING INC. **L7.6-17**
Client Project #: 065133-02-02MINAGO HYDREOLOGY
Site Reference:
Sampler Initials: PS

General Comments

Results relate only to the items tested.

WARDROP ENGINEERING INC. **L7.6-18**
 Attention: Alison Reineke
 Client Project #: 065133-02-02MINAGO HYDREOLOGY
 P.O. #:
 Site Reference:

Quality Assurance Report
 Maxxam Job Number: VA709269

QA/QC Batch	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits
1511333 CK	SPIKE	Turbidity	2007/03/09		100	%	80 - 120
	BLANK	Turbidity	2007/03/09	<0.1		NTU	
	RPD	Turbidity	2007/03/09	0.2		%	25
1513715 MM3	SPIKE	pH	2007/03/09		101	%	96 - 104
	RPD	pH	2007/03/09	0.4		%	25
1513721 WAY	MATRIX SPIKE	Fluoride (F)	2007/03/09		97	%	80 - 120
	SPIKE	Fluoride (F)	2007/03/09		104	%	80 - 120
	BLANK	Fluoride (F)	2007/03/09	0.02, RDL=0.01		mg/L	
	RPD	Fluoride (F)	2007/03/09	9.2		%	25
1513797 MM3	SPIKE	Conductivity	2007/03/09		100	%	80 - 120
	BLANK	Conductivity	2007/03/09	<1		uS/cm	
	RPD	Conductivity	2007/03/09	0.4		%	25
1513799 MM3	MATRIX SPIKE	Alkalinity (Total as CaCO3)	2007/03/09		98	%	80 - 120
	SPIKE	Alkalinity (Total as CaCO3)	2007/03/09		98	%	80 - 120
	BLANK	Alkalinity (Total as CaCO3)	2007/03/09	<0.5		mg/L	
		Alkalinity (PP as CaCO3)	2007/03/09	<0.5		mg/L	
		Bicarbonate (HCO3)	2007/03/09	<0.5		mg/L	
		Carbonate (CO3)	2007/03/09	<0.5		mg/L	
		Hydroxide (OH)	2007/03/09	<0.5		mg/L	
1514492 MX	RPD	Alkalinity (Total as CaCO3)	2007/03/09	0.2		%	25
	MATRIX SPIKE	Total Nitrogen (N)	2007/03/09		104	%	80 - 120
	SPIKE	Total Nitrogen (N)	2007/03/09		97	%	80 - 120
	BLANK	Total Nitrogen (N)	2007/03/09	<0.02		mg/L	
1514760 BB3	RPD	Total Nitrogen (N)	2007/03/09	0.2		%	25
	MATRIX SPIKE	Dissolved Phosphorus (P)	2007/03/09		89	%	80 - 120
	SPIKE	Dissolved Phosphorus (P)	2007/03/09		103	%	80 - 120
	BLANK	Dissolved Phosphorus (P)	2007/03/09	<0.002		mg/L	
1517063 NN	RPD	Dissolved Phosphorus (P)	2007/03/09	NC		%	20
	MATRIX SPIKE	Chloride (Cl)	2007/03/12		95	%	80 - 120
	SPIKE	Chloride (Cl)	2007/03/12		102	%	80 - 120
	BLANK	Chloride (Cl)	2007/03/12	<0.5		mg/L	
1517243 NN	RPD	Chloride (Cl)	2007/03/12	0.2		%	20
	MATRIX SPIKE	Dissolved Sulphate (SO4)	2007/03/12		113	%	75 - 125
	SPIKE	Dissolved Sulphate (SO4)	2007/03/12		85	%	80 - 120
	BLANK	Dissolved Sulphate (SO4)	2007/03/12	<0.5		mg/L	
1517257 BB3	RPD	Dissolved Sulphate (SO4)	2007/03/12	1.6		%	20
	MATRIX SPIKE	Nitrate plus Nitrite (N)	2007/03/12		114	%	80 - 120
	SPIKE	Nitrate plus Nitrite (N)	2007/03/12		94	%	80 - 120
	BLANK	Nitrate plus Nitrite (N)	2007/03/12	<0.002		mg/L	
1517279 BB3	RPD [E 6 1 0 031-]	Nitrate plus Nitrite (N)	2007/03/12	NC		%	25
	MATRIX SPIKE						
	[E61093-01]	Nitrite (N)	2007/03/12		104	%	80 - 120
	SPIKE	Nitrite (N)	2007/03/12		98	%	80 - 120
	BLANK	Nitrite (N)	2007/03/12	<0.002		mg/L	
1518337 GS2	RPD [E 6 1 0 031-]	Nitrite (N)	2007/03/12	NC		%	25
	BLANK	Total Calcium (Ca)	2007/03/12	<0.05		mg/L	
		Total Magnesium (Mg)	2007/03/12	<0.05		mg/L	
	RPD	Total Calcium (Ca)	2007/03/12	2.4		%	25
1520507 JT3		Total Magnesium (Mg)	2007/03/12	2.2		%	25
	MATRIX SPIKE	Dissolved Mercury (Hg)	2007/03/14		98	%	70 - 130
	QC STANDARD	Dissolved Mercury (Hg)	2007/03/14		99	%	80 - 120
	SPIKE	Dissolved Mercury (Hg)	2007/03/14		98	%	80 - 120
	BLANK	Dissolved Mercury (Hg)	2007/03/14	<0.05		ug/L	
	RPD [E 6 1 0 011-]	Dissolved Mercury (Hg)	2007/03/14	NC		%	25
	RPD [E 6 1 0 031-]	Dissolved Mercury (Hg)	2007/03/14	NC		%	25

WARDROP ENGINEERING INC. **L7.6-19**
 Attention: Alison Reineke
 Client Project #: 065133-02-02MINAGO HYDREOLOGY
 P.O. #:
 Site Reference:

Quality Assurance Report (Continued)
 Maxxam Job Number: VA709269

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
1520945 AA1	MATRIX SPIKE [E61091-01]	Dissolved Arsenic (As)	2007/03/14		109	%	75 - 125		
		Dissolved Cadmium (Cd)	2007/03/14		111	%	75 - 125		
		Dissolved Chromium (Cr)	2007/03/14		105	%	75 - 125		
		Dissolved Cobalt (Co)	2007/03/14		107	%	75 - 125		
		Dissolved Copper (Cu)	2007/03/14		106	%	75 - 125		
		Dissolved Lead (Pb)	2007/03/14		109	%	75 - 125		
		Dissolved Selenium (Se)	2007/03/14		108	%	75 - 125		
		Dissolved Thallium (Tl)	2007/03/14		106	%	75 - 125		
		Dissolved Zinc (Zn)	2007/03/14		96	%	75 - 125		
		SPIKE	Dissolved Arsenic (As)	2007/03/14		97	%	75 - 125	
			Dissolved Cadmium (Cd)	2007/03/14		104	%	75 - 125	
			Dissolved Chromium (Cr)	2007/03/14		114	%	75 - 125	
			Dissolved Cobalt (Co)	2007/03/14		120	%	75 - 125	
			Dissolved Copper (Cu)	2007/03/14		122	%	75 - 125	
	Dissolved Lead (Pb)		2007/03/14		119	%	75 - 125		
	Dissolved Selenium (Se)		2007/03/14		101	%	75 - 125		
	Dissolved Thallium (Tl)		2007/03/14		111	%	75 - 125		
	Dissolved Zinc (Zn)		2007/03/14		113	%	75 - 125		
	BLANK		Dissolved Aluminum (Al)	2007/03/14		0.4, RDL=0.2		ug/L	
		Dissolved Antimony (Sb)	2007/03/14		<0.05		ug/L		
		Dissolved Arsenic (As)	2007/03/14		<0.1		ug/L		
		Dissolved Barium (Ba)	2007/03/14		<0.02		ug/L		
		Dissolved Beryllium (Be)	2007/03/14		<0.05		ug/L		
		Dissolved Bismuth (Bi)	2007/03/14		<0.05		ug/L		
		Dissolved Cadmium (Cd)	2007/03/14		<0.01		ug/L		
		Dissolved Chromium (Cr)	2007/03/14		<0.2		ug/L		
		Dissolved Cobalt (Co)	2007/03/14		<0.02		ug/L		
		Dissolved Copper (Cu)	2007/03/14		<0.1		ug/L		
		Dissolved Lead (Pb)	2007/03/14		<0.02		ug/L		
		Dissolved Lithium (Li)	2007/03/14		0.3, RDL=0.2		ug/L		
		Dissolved Manganese (Mn)	2007/03/14		<0.02		ug/L		
		Dissolved Molybdenum (Mo)	2007/03/14		<0.02		ug/L		
		Dissolved Nickel (Ni)	2007/03/14		<0.5		ug/L		
		Dissolved Potassium (K)	2007/03/14		<50		ug/L		
		Dissolved Selenium (Se)	2007/03/14		<0.5		ug/L		
		Dissolved Silver (Ag)	2007/03/14		<0.01		ug/L		
		Dissolved Strontium (Sr)	2007/03/14		<0.01		ug/L		
		Dissolved Thallium (Tl)	2007/03/14		<0.05		ug/L		
		Dissolved Tin (Sn)	2007/03/14		<0.05		ug/L		
		Dissolved Titanium (Ti)	2007/03/14		<0.5		ug/L		
		Dissolved Uranium (U)	2007/03/14		<0.01		ug/L		
		Dissolved Vanadium (V)	2007/03/14		<0.05		ug/L		
		Dissolved Zinc (Zn)	2007/03/14		<0.5		ug/L		
		RPD [E 6 1 0 011-]	Dissolved Aluminum (Al)	2007/03/14		NC		%	25
			Dissolved Antimony (Sb)	2007/03/14		3.6		%	25
			Dissolved Arsenic (As)	2007/03/14		NC		%	25
			Dissolved Barium (Ba)	2007/03/14		1.6		%	25
Dissolved Beryllium (Be)			2007/03/14		NC		%	25	
Dissolved Bismuth (Bi)			2007/03/14		NC		%	25	
Dissolved Cadmium (Cd)			2007/03/14		NC		%	25	
Dissolved Chromium (Cr)	2007/03/14			NC		%	25		
Dissolved Cobalt (Co)	2007/03/14			0.4		%	25		
Dissolved Copper (Cu)	2007/03/14			NC		%	25		
Dissolved Lead (Pb)	2007/03/14		NC		%	25			

WARDROP ENGINEERING INC. **L7.6-20**
 Attention: Alison Reineke
 Client Project #: 065133-02-02MINAGO HYDREOLOGY
 P.O. #:
 Site Reference:

Quality Assurance Report (Continued)
 Maxxam Job Number: VA709269

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1520945 AA1	RPD [E 6 1 0 9011-]	Dissolved Lithium (Li)	2007/03/14	6.7		%	25
		Dissolved Manganese (Mn)	2007/03/14	2.6		%	25
		Dissolved Molybdenum (Mo)	2007/03/14	0.9		%	25
		Dissolved Nickel (Ni)	2007/03/14	NC		%	25
		Dissolved Potassium (K)	2007/03/14	2.5		%	25
		Dissolved Selenium (Se)	2007/03/14	NC		%	25
		Dissolved Silver (Ag)	2007/03/14	NC		%	25
		Dissolved Strontium (Sr)	2007/03/14	0.5		%	25
		Dissolved Thallium (Tl)	2007/03/14	NC		%	25
		Dissolved Tin (Sn)	2007/03/14	NC		%	25
		Dissolved Titanium (Ti)	2007/03/14	NC		%	25
		Dissolved Uranium (U)	2007/03/14	1.6		%	25
		Dissolved Vanadium (V)	2007/03/14	NC		%	25
		Dissolved Zinc (Zn)	2007/03/14	2.5		%	25
1521957 VL	MATRIX SPIKE [E61091-01]	Total Dissolved Solids	2007/03/15		100	%	N/A
		Total Dissolved Solids	2007/03/15		102	%	80 - 120
		BLANK	2007/03/15	<1		mg/L	
		RPD [E 6 1 0 9011-]	2007/03/15	1.6		%	25
1522082 NN	MATRIX SPIKE	Ammonia (N)	2007/03/14		7.8 (1)	%	80 - 120
		Ammonia (N)	2007/03/14		97	%	80 - 120
		BLANK	2007/03/14	<0.005		mg/L	
		RPD	2007/03/14	0.7 (1)		%	25
1524201 GS2	BLANK	Dissolved Boron (B)	2007/03/14	<0.008		mg/L	
		Dissolved Calcium (Ca)	2007/03/14	<0.05		mg/L	
		Dissolved Iron (Fe)	2007/03/14	<0.005		mg/L	
		Dissolved Magnesium (Mg)	2007/03/14	<0.05		mg/L	
		Dissolved Phosphorus (P)	2007/03/14	<0.1		mg/L	
		Dissolved Silicon (Si)	2007/03/14	<0.05		mg/L	
		Dissolved Sodium (Na)	2007/03/14	<0.05		mg/L	
		Dissolved Sulphur (S)	2007/03/14	<0.1		mg/L	
		Dissolved Zirconium (Zr)	2007/03/14	<0.005		mg/L	
		RPD	2007/03/14	0.3		%	25
		Dissolved Calcium (Ca)	2007/03/14	0.3		%	25
		Dissolved Magnesium (Mg)	2007/03/14	2.2		%	25

N/A = Not Applicable
 NC = Non-calculable
 RPD = Relative Percent Difference
 (1) Matrix spike exceeds acceptance limits due to matrix interference. Re-analysis yields similar results.



8577 Commerce Court
Burnaby, BC V5A 4N5
www.maxxamanalytics.com

Phone: (604) 444-4808
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Toll Free: 1-800-440-4808

COMPANY NAME: Wardrop Engineering		PH. #: (204) 956-0980		E-mail: <i>alison.reineke@wardrop.com</i>		FAX #: (204) 957-5389		A 709209		ANALYSIS REQUEST		F 2309									
COMPANY ADDRESS: Atn: Alison Reineke 400-386 Broadway Wpg MB R3C 4M8		CLIENT PROJECT ID: (#) 065133-02-02		Minago Hydrogeology																	
SAMPLER NAME (PRINT): Patrick Solylo		PROJECT MANAGER: Doug Ramsey																			
FIELD SAMPLE ID	MAXXAM LAB # (Lab Use Only)	MATRIX					# CONTAINERS	SAMPLING			Dissolved Metals & Hg	TDS	total Hard (carb, bicarb, hydrox)	total Rad, up 226	turbid, total alkalinity	SO ₄ , NO ₂ , NO ₃ , TPEN, Cl	diss P	NH ₄	pH, conductivity	Fluoride	
		GROUND WATER	SURFACE WATER	SOIL	OTHER	DATE DD/MM/YY		TIME	HEADSPACE VAPOUR												
1 LM	E61091	X				5	03/03/07	08:45		X	X	X	X	X	X	X	X	X	X	X	X
2 LM2	92	X				5	03/03/07	14:00		X	X	X	X	X	X	X	X	X	X	X	
3 DUPA	93	X				5	03/03/07	—		X	X	X	X	X	X	X	X	X	X	X	
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

TAT (Turnaround Time) <5 DAY TAT MUST HAVE PRIOR APPROVAL <i>*some exceptions apply please contact lab</i>	P.O. NUMBER / QUOTE NUMBER:	SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: *rpt via email as pdf & excel	<input type="checkbox"/> CCME <input type="checkbox"/> CSR <input type="checkbox"/> ALBERTA TIER 1 <input type="checkbox"/> OTHER	LAB USE ONLY	
STANDARD 5 BUSINESS DAYS <input checked="" type="checkbox"/> RUSH 3 BUSINESS DAYS <input type="checkbox"/> RUSH 2 BUSINESS DAYS <input type="checkbox"/> URGENT 1 BUSINESS DAY <input type="checkbox"/>	ACCOUNTING CONTACT:	SPECIAL REPORTING OR BILLING INSTRUCTIONS: please report elements/metals in mg/L	# JARS USED:	ARRIVAL TEMPERATURE °C:	DUE DATE: MAR 15/07
OTHER BUSINESS DAYS	RELINQUISHED BY SAMPLER: P Solylo	DATE: 05/03/07	TIME: 12:45	RECEIVED BY:	
	RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	
	RELINQUISHED BY:	DATE:	TIME: 3:5 PM	RECEIVED BY LABORATORY:	

CUSTODY RECORD

L7-6-21

L7.6-22

Your Project #: 065133-02-02 MINAGO HYDROLOGY
Your C.O.C. #: F23394

Attention: Alison Reineke
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 2M8

Report Date: 2007/03/23

This report supersedes all previous reports

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A709686

Received: 2007/03/12, 10:15

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water	2	2007/03/13	2007/03/13	ING413 Rev.1.7	Based on SM2320B
Alkalinity - Water	1	2007/03/14	2007/03/14	ING413 Rev.1.7	Based on SM2320B
Chloride by Automated Colourimetry (†)	3	N/A	2007/03/14	BRN-SOP 00116	Based on EPA 325.2
Conductance - water	2	N/A	2007/03/13	ING413 REV 1.7	Based on SM-2510B
Conductance - water	1	N/A	2007/03/14	ING413 REV 1.7	Based on SM-2510B
Fluoride	3	N/A	2007/03/19	ING222 Rev.4.2	Based SM - 4500 F C
Hardness Total (calculated as CaCO3)	3	N/A	2007/03/19		
Hardness (calculated as CaCO3)	3	N/A	2007/03/12		
Mercury (Dissolved)	3	2007/03/14	2007/03/15	BRN SOP-00044 V1.0	Based on EPA 245.1
Elements by ICP-AES (dissolved)	3	2007/03/19	2007/03/19	BRN SOP-00040 V1.0	Based on EPA 6010B
Elements by ICPMS (dissolved) (†)	3	2007/03/13	2007/03/14	BRN SOP-00042 V1.0	Based on EPA 200.8
Elements by ICP-AES (total)	3	N/A	2007/03/16	BRN SOP-00040 V1.0	Based on EPA 6010B
Nitrogen (Total)	3	2007/03/13	2007/03/13	ING246 Rev.1.4	Based on SM-4500N C
Ammonia-N	3	N/A	2007/03/14	ING 232 Rev 3.5	SM-4500 NH3 G
Nitrate+Nitrite (N) (low level)	3	N/A	2007/03/14	ING233 Rev.4.4	Based on EPA 353.2
Nitrite (N) (low level)	3	N/A	2007/03/14	ING233 Rev.4.4	EPA 353.2
Nitrogen - Nitrate (as N)	3	N/A	2007/03/12		
pH Water	2	N/A	2007/03/13	BRN SOP-00014 V2.0	Based on SM-4500H+B
pH Water	1	N/A	2007/03/14	BRN SOP-00014 V2.0	Based on SM-4500H+B
Sulphate by Automated Colourimetry (†)	3	N/A	2007/03/14	BRN-SOP 00117 V1.0	Based on EPA 375.4
Sublet (ORGANICS)	3	N/A	2007/03/23		
Total Dissolved Solids (Filt. Residue)	3	N/A	2007/03/15	BRN-00029/2	APHA 2540
TKN (Calc. TN, N/N) total	3	N/A	2007/03/12		
Phosphorus-P (Total, dissolved) (†)	3	2007/03/15	2007/03/15	ING 237 Rev 5.0	S M - 4 5 0 0 P F
Turbidity	3	N/A	2007/03/12	BRN SOP-00021 V2.0	SM - 2130B

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) SCC/CAEAL

./2

L7.6-23

Your Project #: 065133-02-02 MINAGO HYDROLOGY
Your C.O.C. #: F23394

Attention: Alison Reineke
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 2M8

Report Date: 2007/03/23

CERTIFICATE OF ANALYSIS

Encryption Key  Rob MacArthur
23 Mar 2007 10:06:31 -07:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

ROB MACARTHUR, Customer Service Rep
Email: rob.macarthur@maxxamanalytics.com
Phone# (604) 444-4808 Ext:253

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Total cover pages: 2

Burnaby: 8577 Commerce Court V5A 4N5 Telephone(604) 444-4808 Fax(604) 444-4511

Maxxam Job #: A709686
Report Date: 2007/03/23

WARDROP ENGINEERING INC. **L7.6-24**
Client Project #: 065133-02-02 MINAGO HYDROLOGY
Site Reference:
Sampler Initials: PS

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		E 6 3 8 9 5	E 6 3 8 9 6		E 6 3 8 9 7		
Sampling Date		2007/03/07 9:00	2007/03/07 15:00		2007/03/12		
COC Number		F23394	F23394		F23394		
	Units	SS	SS-2	QC Batch	TRIP BLANK	RDL	QC Batch

Misc. Inorganics							
Fluoride (F)	mg/L	0.36	0.36	1524679	0.02	0.01	1524679
Parameter							
Subcontract Parameter	N/A	ATTACHED	ATTACHED	1539096	ATTACHED	N/A	1539096
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	294	293	1531214	<0.5	0.5	1531214
Nitrate (N)	mg/L	<0.002	0.003	1517993	<0.002	0.002	1517993
Misc. Inorganics							
Dissolved Hardness (CaCO3)	mg/L	287	285	1516782	<0.5	0.5	1516782
Alkalinity (Total as CaCO3)	mg/L	344	340	1518646	<0.5	0.5	1522663
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	1518646	<0.5	0.5	1522663
Bicarbonate (HCO3)	mg/L	420	414	1518646	<0.5	0.5	1522663
Carbonate (CO3)	mg/L	<0.5	<0.5	1518646	<0.5	0.5	1522663
Hydroxide (OH)	mg/L	<0.5	<0.5	1518646	<0.5	0.5	1522663
Anions							
Dissolved Sulphate (SO4)	mg/L	14.2	14.3	1522079	<0.5	0.5	1522079
Chloride (Cl)	mg/L	15.4	14.2	1522049	<0.5	0.5	1522049
Nutrients							
Ammonia (N)	mg/L	0.10	0.08	1522141	<0.01	0.01	1522141
Total Kjeldahl Nitrogen (Calc)	mg/L	0.21	0.23	1517995	<0.02	0.02	1517995
Dissolved Phosphorus (P)	mg/L	0.010	0.004	1519024	<0.002	0.002	1519024
Nitrate plus Nitrite (N)	mg/L	<0.002	0.003	1522314	<0.002	0.002	1522314
Nitrite (N)	mg/L	0.003	<0.002	1522315	<0.002	0.002	1522315
Total Nitrogen (N)	mg/L	0.21	0.23	1519018	<0.02	0.02	1519018
Physical Properties							
Conductivity	uS/cm	688	677	1518645	1	1	1522651
pH	pH Units	8.1	8.1	1518640	5.7	0.1	1522570
Physical Properties							
Total Dissolved Solids	mg/L	364	354	1521957	<1	1	1521957
Turbidity	NTU	77.6	23.0	1516656	<0.1	0.1	1516656

RDL = Reportable Detection Limit

Maxxam Job #: A709686
Report Date: 2007/03/23

WARDROP ENGINEERING INC. **L7.6-25**
Client Project #: 065133-02-02 MINAGO HYDROLOGY
Site Reference:
Sampler Initials: PS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		E 6 3 8 9 5	E 6 3 8 9 6	E 6 3 8 9 7		
Sampling Date		2007/03/07 9:00	2007/03/07 15:00	2007/03/12		
COC Number		F23394	F23394	F23394		
	Units	SS	SS-2	TRIP BLANK	RDL	QC Batch

Low Level Elements						
Dissolved Mercury (Hg)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1523024
Dissolved Metals by ICP						
Dissolved Boron (B)	mg/L	0.200	0.207	<0.008	0.008	1530442
Dissolved Calcium (Ca)	mg/L	55.0	55.1	<0.05	0.05	1530442
Dissolved Iron (Fe)	mg/L	0.093	0.085	0.058	0.005	1530442
Dissolved Magnesium (Mg)	mg/L	36.3	35.7	<0.05	0.05	1530442
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	<0.1	0.1	1530442
Dissolved Silicon (Si)	mg/L	5.00	5.73	<0.05	0.05	1530442
Dissolved Sodium (Na)	mg/L	42.2	41.7	<0.05	0.05	1530442
Dissolved Sulphur (S)	mg/L	5.3	5.0	<0.1	0.1	1530442
Dissolved Zirconium (Zr)	mg/L	<0.005	<0.005	<0.005	0.005	1530442
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	mg/L	<0.0002	0.0006	<0.0002	0.0002	1520945
Dissolved Antimony (Sb)	mg/L	0.00060	0.00022	<0.00005	0.00005	1520945
Dissolved Arsenic (As)	mg/L	0.0004	0.0021	<0.0001	0.0001	1520945
Dissolved Barium (Ba)	mg/L	0.0753	0.0839	<0.00002	0.00002	1520945
Dissolved Beryllium (Be)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1520945
Dissolved Bismuth (Bi)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1520945
Dissolved Cadmium (Cd)	mg/L	0.00002	<0.00001	<0.00001	0.00001	1520945
Dissolved Chromium (Cr)	mg/L	<0.0002	<0.0002	<0.0002	0.0002	1520945
Dissolved Cobalt (Co)	mg/L	0.00036	0.00035	<0.00002	0.00002	1520945
Dissolved Copper (Cu)	mg/L	<0.0001	<0.0001	0.0002	0.0001	1520945
Dissolved Lead (Pb)	mg/L	0.00003	0.00005	<0.00002	0.00002	1520945
Dissolved Lithium (Li)	mg/L	0.0290	0.0285	<0.0002	0.0002	1520945
Dissolved Manganese (Mn)	mg/L	0.0965	0.0216	<0.00002	0.00002	1520945
Dissolved Molybdenum (Mo)	mg/L	0.00242	0.00139	<0.00002	0.00002	1520945
Dissolved Nickel (Ni)	mg/L	0.0019	0.0020	<0.0005	0.0005	1520945
Dissolved Potassium (K)	mg/L	6.15	6.05	<0.05	0.05	1520945
Dissolved Selenium (Se)	mg/L	<0.0005	<0.0005	<0.0005	0.0005	1520945
Dissolved Silver (Ag)	mg/L	<0.00001	0.00004	<0.00001	0.00001	1520945
Dissolved Strontium (Sr)	mg/L	0.324	0.336	<0.00001	0.00001	1520945
Dissolved Thallium (Tl)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1520945

RDL = Reportable Detection Limit

Maxxam Job #: A709686
Report Date: 2007/03/23

WARDROP ENGINEERING INC. **L7.6-26**
Client Project #: 065133-02-02 MINAGO HYDROLOGY
Site Reference:
Sampler Initials: PS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		E 6 3 8 9 5	E 6 3 8 9 6	E 6 3 8 9 7		
Sampling Date		2007/03/07 9:00	2007/03/07 15:00	2007/03/12		
COC Number		F23394	F23394	F23394		
	Units	SS	SS-2	TRIP BLANK	RDL	QC Batch

Dissolved Tin (Sn)	mg/L	0.00005	0.00005	<0.00005	0.00005	1520945
Dissolved Titanium (Ti)	mg/L	<0.0005	<0.0005	<0.0005	0.0005	1520945
Dissolved Uranium (U)	mg/L	0.00038	0.00047	<0.00001	0.00001	1520945
Dissolved Vanadium (V)	mg/L	<0.00005	<0.00005	<0.00005	0.00005	1520945
Dissolved Zinc (Zn)	mg/L	2.54	0.0054	<0.0005	0.0005	1520945
Total Metals by ICP						
Total Calcium (Ca)	mg/L	56.7	56.8	<0.05	0.05	1528849
Total Magnesium (Mg)	mg/L	37.1	36.8	<0.05	0.05	1528849

RDL = Reportable Detection Limit

Maxxam Job #: A709686
Report Date: 2007/03/23

WARDROP ENGINEERING INC. **L7.6-27**
Client Project #: 065133-02-02 MINAGO HYDROLOGY
Site Reference:
Sampler Initials: PS

RESULTS OF CHEMICAL ANALYSES OF WATER Comments

Sample E63897-01 Total Dissolved Solids (Filt. Residue): 250 mL was used for analysis

Results relate only to the items tested.

WARDROP ENGINEERING INC. **L7.6-28**
 Attention: Alison Reineke
 Client Project #: 065133-02-02 MINAGO HYDROLOGY
 P.O. #:
 Site Reference:

Quality Assurance Report
 Maxxam Job Number: VA709686

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1516656 CK	SPIKE	Turbidity	2007/03/12		102	%	80 - 120	
	BLANK	Turbidity	2007/03/12	<0.1		NTU		
	RPD	Turbidity	2007/03/12	NC		%	25	
1518640 MM3	SPIKE	pH	2007/03/13		102	%	96 - 104	
	RPD [E 6 3 8 9061-]	pH	2007/03/13	0.1		%	25	
1518645 MM3	SPIKE	Conductivity	2007/03/13		98	%	80 - 120	
	BLANK	Conductivity	2007/03/13	<1		uS/cm		
	RPD [E 6 3 8 9061-]	Conductivity	2007/03/13	0.1		%	25	
1518646 MM3	MATRIX SPIKE	Alkalinity (Total as CaCO3)	2007/03/13		96	%	80 - 120	
	SPIKE	Alkalinity (Total as CaCO3)	2007/03/13		96	%	80 - 120	
	BLANK	Alkalinity (Total as CaCO3)	2007/03/13	<0.5		mg/L		
		Alkalinity (PP as CaCO3)	2007/03/13	<0.5		mg/L		
		Bicarbonate (HCO3)	2007/03/13	<0.5		mg/L		
		Carbonate (CO3)	2007/03/13	<0.5		mg/L		
		Hydroxide (OH)	2007/03/13	<0.5		mg/L		
	RPD [E 6 3 8 9061-]	Alkalinity (Total as CaCO3)	2007/03/13	0.5		%	25	
		Alkalinity (PP as CaCO3)	2007/03/13	NC		%	25	
		Bicarbonate (HCO3)	2007/03/13	0.5		%	25	
		Carbonate (CO3)	2007/03/13	NC		%	25	
	Hydroxide (OH)	2007/03/13	NC		%	25		
1519018 BB3	MATRIX SPIKE	Total Nitrogen (N)	2007/03/13		87	%	80 - 120	
	SPIKE	Total Nitrogen (N)	2007/03/13		102	%	80 - 120	
	BLANK	Total Nitrogen (N)	2007/03/13	<0.02		mg/L		
	RPD	Total Nitrogen (N)	2007/03/13	2.6		%	25	
1519024 MX	MATRIX SPIKE	Dissolved Phosphorus (P)	2007/03/15		92	%	80 - 120	
	SPIKE	Dissolved Phosphorus (P)	2007/03/15		107	%	80 - 120	
	BLANK	Dissolved Phosphorus (P)	2007/03/15	<0.002		mg/L		
	RPD	Dissolved Phosphorus (P)	2007/03/15	7.9		%	20	
1520945 AA1	MATRIX SPIKE	Dissolved Arsenic (As)	2007/03/14		109	%	75 - 125	
		Dissolved Cadmium (Cd)	2007/03/14		111	%	75 - 125	
		Dissolved Chromium (Cr)	2007/03/14		105	%	75 - 125	
		Dissolved Cobalt (Co)	2007/03/14		107	%	75 - 125	
		Dissolved Copper (Cu)	2007/03/14		106	%	75 - 125	
		Dissolved Lead (Pb)	2007/03/14		109	%	75 - 125	
		Dissolved Selenium (Se)	2007/03/14		108	%	75 - 125	
		Dissolved Thallium (Tl)	2007/03/14		106	%	75 - 125	
		Dissolved Zinc (Zn)	2007/03/14		96	%	75 - 125	
		SPIKE	Dissolved Arsenic (As)	2007/03/14		97	%	75 - 125
			Dissolved Cadmium (Cd)	2007/03/14		104	%	75 - 125
			Dissolved Chromium (Cr)	2007/03/14		114	%	75 - 125
			Dissolved Cobalt (Co)	2007/03/14		120	%	75 - 125
			Dissolved Copper (Cu)	2007/03/14		122	%	75 - 125
	Dissolved Lead (Pb)		2007/03/14		119	%	75 - 125	
	Dissolved Selenium (Se)		2007/03/14		101	%	75 - 125	
	Dissolved Thallium (Tl)		2007/03/14		111	%	75 - 125	
	Dissolved Zinc (Zn)		2007/03/14		113	%	75 - 125	
	BLANK		Dissolved Aluminum (Al)	2007/03/14	0.4, RDL=0.2			ug/L
		Dissolved Antimony (Sb)	2007/03/14	<0.05			ug/L	
		Dissolved Arsenic (As)	2007/03/14	<0.1			ug/L	
		Dissolved Barium (Ba)	2007/03/14	<0.02			ug/L	
		Dissolved Beryllium (Be)	2007/03/14	<0.05			ug/L	
		Dissolved Bismuth (Bi)	2007/03/14	<0.05			ug/L	
		Dissolved Cadmium (Cd)	2007/03/14	<0.01			ug/L	
		Dissolved Chromium (Cr)	2007/03/14	<0.2			ug/L	
		Dissolved Cobalt (Co)	2007/03/14	<0.02			ug/L	

WARDROP ENGINEERING INC. **L7.6-29**
 Attention: Alison Reineke
 Client Project #: 065133-02-02 MINAGO HYDROLOGY
 P.O. #:
 Site Reference:

Quality Assurance Report (Continued)
 Maxxam Job Number: VA709686

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1520945 AA1	BLANK	Dissolved Copper (Cu)	2007/03/14	<0.1		ug/L	
		Dissolved Lead (Pb)	2007/03/14	<0.02		ug/L	
		Dissolved Lithium (Li)	2007/03/14	0.3, RDL=0.2		ug/L	
		Dissolved Manganese (Mn)	2007/03/14	<0.02		ug/L	
		Dissolved Molybdenum (Mo)	2007/03/14	<0.02		ug/L	
		Dissolved Nickel (Ni)	2007/03/14	<0.5		ug/L	
		Dissolved Potassium (K)	2007/03/14	<50		ug/L	
		Dissolved Selenium (Se)	2007/03/14	<0.5		ug/L	
		Dissolved Silver (Ag)	2007/03/14	<0.01		ug/L	
		Dissolved Strontium (Sr)	2007/03/14	<0.01		ug/L	
		Dissolved Thallium (Tl)	2007/03/14	<0.05		ug/L	
		Dissolved Tin (Sn)	2007/03/14	<0.05		ug/L	
		Dissolved Titanium (Ti)	2007/03/14	<0.5		ug/L	
		Dissolved Uranium (U)	2007/03/14	<0.01		ug/L	
		Dissolved Vanadium (V)	2007/03/14	<0.05		ug/L	
	Dissolved Zinc (Zn)	2007/03/14	<0.5		ug/L		
	RPD	Dissolved Aluminum (Al)	2007/03/14	NC		%	25
		Dissolved Antimony (Sb)	2007/03/14	3.6		%	25
		Dissolved Arsenic (As)	2007/03/14	NC		%	25
		Dissolved Barium (Ba)	2007/03/14	1.6		%	25
		Dissolved Beryllium (Be)	2007/03/14	NC		%	25
		Dissolved Bismuth (Bi)	2007/03/14	NC		%	25
		Dissolved Cadmium (Cd)	2007/03/14	NC		%	25
		Dissolved Chromium (Cr)	2007/03/14	NC		%	25
		Dissolved Cobalt (Co)	2007/03/14	0.4		%	25
		Dissolved Copper (Cu)	2007/03/14	NC		%	25
		Dissolved Lead (Pb)	2007/03/14	NC		%	25
		Dissolved Lithium (Li)	2007/03/14	6.7		%	25
		Dissolved Manganese (Mn)	2007/03/14	2.6		%	25
		Dissolved Molybdenum (Mo)	2007/03/14	0.9		%	25
		Dissolved Nickel (Ni)	2007/03/14	NC		%	25
		Dissolved Potassium (K)	2007/03/14	2.5		%	25
		Dissolved Selenium (Se)	2007/03/14	NC		%	25
Dissolved Silver (Ag)		2007/03/14	NC		%	25	
Dissolved Strontium (Sr)	2007/03/14	0.5		%	25		
Dissolved Thallium (Tl)	2007/03/14	NC		%	25		
Dissolved Tin (Sn)	2007/03/14	NC		%	25		
Dissolved Titanium (Ti)	2007/03/14	NC		%	25		
Dissolved Uranium (U)	2007/03/14	1.6		%	25		
Dissolved Vanadium (V)	2007/03/14	NC		%	25		
Dissolved Zinc (Zn)	2007/03/14	2.5		%	25		
1521957 VL	MATRIX SPIKE	Total Dissolved Solids	2007/03/15		100	%	N/A
	SPIKE	Total Dissolved Solids	2007/03/15		102	%	80 - 120
	BLANK	Total Dissolved Solids	2007/03/15	<1		mg/L	
	RPD	Total Dissolved Solids	2007/03/15	1.6		%	25
1522049 NN	MATRIX SPIKE	Chloride (Cl)	2007/03/14		99	%	80 - 120
	SPIKE	Chloride (Cl)	2007/03/14		102	%	80 - 120
	BLANK	Chloride (Cl)	2007/03/14	<0.5		mg/L	
	RPD	Chloride (Cl)	2007/03/14	0.4		%	20
1522079 NN	MATRIX SPIKE	Dissolved Sulphate (SO4)	2007/03/14		114	%	75 - 125
	SPIKE	Dissolved Sulphate (SO4)	2007/03/14		98	%	80 - 120
	BLANK	Dissolved Sulphate (SO4)	2007/03/14	<0.5		mg/L	
	RPD	Dissolved Sulphate (SO4)	2007/03/14	NC		%	20
1522141 NN	MATRIX SPIKE	Ammonia (N)	2007/03/14		99	%	80 - 120
	SPIKE	Ammonia (N)	2007/03/14		97	%	80 - 120

WARDROP ENGINEERING INC. **L7.6-30**
 Attention: Alison Reineke
 Client Project #: 065133-02-02 MINAGO HYDROLOGY
 P.O. #:
 Site Reference:

Quality Assurance Report (Continued)
 Maxxam Job Number: VA709686

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1522141 NN	BLANK	Ammonia (N)	2007/03/14	<0.01		mg/L	
	RPD	Ammonia (N)	2007/03/14	NC		%	25
1522314 BB3	MATRIX SPIKE	Nitrate plus Nitrite (N)	2007/03/14		116	%	80 - 120
	SPIKE	Nitrate plus Nitrite (N)	2007/03/14		107	%	80 - 120
	BLANK	Nitrate plus Nitrite (N)	2007/03/14	<0.002		mg/L	
	RPD	Nitrate plus Nitrite (N)	2007/03/14	8.7		%	25
1522315 BB3	MATRIX SPIKE	Nitrite (N)	2007/03/14		111	%	80 - 120
	SPIKE	Nitrite (N)	2007/03/14		102	%	80 - 120
	BLANK	Nitrite (N)	2007/03/14	<0.002		mg/L	
	RPD	Nitrite (N)	2007/03/14	NC		%	25
1522570 MM3	SPIKE	pH	2007/03/14		102	%	96 - 104
	RPD	pH	2007/03/14	0.4		%	25
1522651 MM3	SPIKE	Conductivity	2007/03/14		98	%	80 - 120
	BLANK	Conductivity	2007/03/14	<1		uS/cm	
	RPD	Conductivity	2007/03/14	1.7		%	25
1522663 MM3	MATRIX SPIKE	Alkalinity (Total as CaCO3)	2007/03/14		93	%	80 - 120
	SPIKE	Alkalinity (Total as CaCO3)	2007/03/14		96	%	80 - 120
	BLANK	Alkalinity (Total as CaCO3)	2007/03/14	<0.5		mg/L	
		Alkalinity (PP as CaCO3)	2007/03/14	<0.5		mg/L	
		Bicarbonate (HCO3)	2007/03/14	<0.5		mg/L	
		Carbonate (CO3)	2007/03/14	<0.5		mg/L	
		Hydroxide (OH)	2007/03/14	<0.5		mg/L	
	RPD	Alkalinity (Total as CaCO3)	2007/03/14	1.6		%	25
		Alkalinity (PP as CaCO3)	2007/03/14	NC		%	25
		Bicarbonate (HCO3)	2007/03/14	1.6		%	25
		Carbonate (CO3)	2007/03/14	NC		%	25
		Hydroxide (OH)	2007/03/14	NC		%	25
1523024 JT3	MATRIX SPIKE	Dissolved Mercury (Hg)	2007/03/15		115	%	70 - 130
	QC STANDARD	Dissolved Mercury (Hg)	2007/03/15		104	%	80 - 120
	SPIKE	Dissolved Mercury (Hg)	2007/03/15		99	%	80 - 120
	BLANK	Dissolved Mercury (Hg)	2007/03/15	<0.05		ug/L	
	RPD [E 6 3 8 071-]	Dissolved Mercury (Hg)	2007/03/15	NC		%	25
1524679 WAY	MATRIX SPIKE	Fluoride (F)	2007/03/19		96	%	80 - 120
	SPIKE	Fluoride (F)	2007/03/19		93	%	80 - 120
	BLANK	Fluoride (F)	2007/03/19	0.02, RDL=0.01		mg/L	
	RPD	Fluoride (F)	2007/03/19	2.1		%	25
1528849 GS2	BLANK	Total Calcium (Ca)	2007/03/16	<0.05		mg/L	
		Total Magnesium (Mg)	2007/03/16	<0.05		mg/L	
	RPD	Total Calcium (Ca)	2007/03/16	7.7		%	25
		Total Magnesium (Mg)	2007/03/16	7.7		%	25
1530442 GS2	BLANK	Dissolved Boron (B)	2007/03/19	<0.008		mg/L	
		Dissolved Calcium (Ca)	2007/03/19	<0.05		mg/L	
		Dissolved Iron (Fe)	2007/03/19	<0.005		mg/L	
		Dissolved Magnesium (Mg)	2007/03/19	<0.05		mg/L	
		Dissolved Phosphorus (P)	2007/03/19	<0.1		mg/L	
		Dissolved Silicon (Si)	2007/03/19	<0.05		mg/L	
		Dissolved Sodium (Na)	2007/03/19	<0.05		mg/L	
		Dissolved Sulphur (S)	2007/03/19	0.2, RDL=0.1		mg/L	
		Dissolved Zirconium (Zr)	2007/03/19	<0.005		mg/L	
	RPD	Dissolved Boron (B)	2007/03/19	0.5		%	25
		Dissolved Calcium (Ca)	2007/03/19	0.5		%	25
		Dissolved Iron (Fe)	2007/03/19	0.3		%	25
		Dissolved Magnesium (Mg)	2007/03/19	0.9		%	25
		Dissolved Phosphorus (P)	2007/03/19	NC		%	25
		Dissolved Silicon (Si)	2007/03/19	0.2		%	25

WARDROP ENGINEERING INC. **L7.6-31**
 Attention: Alison Reineke
 Client Project #: 065133-02-02 MINAGO HYDROLOGY
 P.O. #:
 Site Reference:

Quality Assurance Report (Continued)
 Maxxam Job Number: VA709686

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1530442 GS2	RPD	Dissolved Sodium (Na)	2007/03/19	1.4		%	25
		Dissolved Sulphur (S)	2007/03/19	0.3		%	25
		Dissolved Zirconium (Zr)	2007/03/19	NC		%	25

N/A = Not Applicable
 NC = Non-calculable
 RPD = Relative Percent Difference

Burnaby: 8577 Commerce Court V5A 4N5 Telephone(604) 444-4808 Fax(604) 444-4511

COMPANY NAME: **Wardrop Engineering**
 COMPANY ADDRESS: **Attn: Alison Reineke
400-386 Broadway
Wpg MB R3C 4M8**
 SAMPLER NAME (PRINT): **Patrick Solylo**

PH. #: **(204) 956-0980**
 E-mail: **alison.reineke@wardrop.com**
 FAX #: **(204) 957-5389**
 CLIENT PROJECT ID: (#) **065133-02-02**
Minago Hydrogeology

PROJECT MANAGER: **Doug Ramsey**

FIELD SAMPLE ID	MAXXAM LAB # (Lab Use Only)	MATRIX					# CONTAINERS	SAMPLING			HEADSPACE VAPOUR	Dissolved Metals & Hg	TDS	total Hard (carb, bicarb, hydrox)	total Radium 226	turbid, total alkalinity	SO ₄ , NO ₂ , NO ₃ , TSS, Cl	dis P	NH ₄	pH, conductivity	Fluoride
		GROUND WATER	SURFACE WATER	SOIL	OTHER	DATE DD/MM/YY		TIME													
1 SS	E 63895	X				5	07/03/07	09:00		X	X	X	X	X	X	X	X	X	X	X	X
2 SS2	↓ 96	X				5	07/03/07	15:00		X	X	X	X	X	X	X	X	X	X	X	X
3 Trip Blank	↓ 97	X				5	---			X	X	X	X	X	X	X	X	X	X	X	X
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

TAT (Turnaround Time) **<5 DAY TAT MUST HAVE PRIOR APPROVAL**
 *some exceptions apply please contact lab

STANDARD 5 BUSINESS DAYS
 RUSH 3 BUSINESS DAYS
 RUSH 2 BUSINESS DAYS
 URGENT 1 BUSINESS DAY

OTHER BUSINESS DAYS _____

P.O. NUMBER / QUOTE NUMBER: _____
 SPECIAL DETECTION LIMITS / CONTAMINANT TYPE: ***rpt via email as pdf & excel**

ACCOUNTING CONTACT: _____
 SPECIAL REPORTING OR BILLING INSTRUCTIONS: **please report elements/metals in mg/L**

RELINQUISHED BY SAMPLER: **W. Solylo** DATE: **10/03/07** TIME: **12:00 PM** RECEIVED BY: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED BY: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED BY LABORATORY: _____

ARRIVAL TEMPERATURE °C: **2, 3, 3** DUE DATE: **MAR 19/07** LOG IN CHECK: _____

JARS USED: _____

CCME
 CSR
 ALBERTA TIER 1
 OTHER

CUSTODY RECORD

L7-6-32

Your Project #: 065133-02-02
Site: MINAGO HYDROGEOLOGY
Your C.O.C. #: F23417

L7.6-33

Attention: Alison Reineke
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 2M8

Report Date: 2007/04/02

This report supersedes all previous reports

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A710779
Received: 2007/03/17, 12:00

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Water	2	2007/03/19	2007/03/19	ING413 Rev.1.7	Based on SM2320B
Chloride by Automated Colourimetry (†)	2	N/A	2007/03/20	BRN-SOP 00116	Based on EPA 325.2
Conductance - water	2	N/A	2007/03/19	ING413 REV 1.7	Based on SM-2510B
Fluoride	2	N/A	2007/03/21	ING222 Rev.4.2	Based SM - 4500 F C
Hardness Total (calculated as CaCO3)	2	N/A	2007/03/21		
Mercury (Dissolved)	2	2007/03/19	2007/03/20	BRN SOP-00044 V1.0	Based on EPA 245.1
Elements by ICP-AES (dissolved)	2	2007/03/21	2007/03/21	BRN SOP-00040 V1.0	Based on EPA 6010B
Elements by ICPMS (dissolved) (†)	2	2007/03/21	2007/03/21	BRN SOP-00042 V1.0	Based on EPA 200.8
Elements by ICP-AES (total)	2	N/A	2007/03/26	BRN SOP-00040 V1.0	Based on EPA 6010B
Nitrogen (Total)	2	2007/03/22	2007/03/22	ING246 Rev.1.4	Based on SM-4500N C
Ammonia (N)	2	N/A	2007/03/21	ING232 Rev.3.5	Based on SM-4500MH3G
Nitrate+Nitrite (N) (low level)	2	N/A	2007/03/19	ING233 Rev.4.4	Based on EPA 353.2
Nitrite (N) (low level)	2	N/A	2007/03/19	ING233 Rev.4.4	EPA 353.2
Nitrogen - Nitrate (as N)	2	N/A	2007/03/17		
pH Water	2	N/A	2007/03/19	BRN SOP-00014 V2.0	Based on SM-4500H+B
Sulphate by Automated Colourimetry (†)	2	N/A	2007/03/20	BRN-SOP 00117 V1.0	Based on EPA 375.4
Sublet (ORGANICS)	2	N/A	2007/04/02		
Total Dissolved Solids (Filt. Residue)	2	N/A	2007/03/26	BRN-00029/2	APHA 2540
TKN (Calc. TN, N/N) total	2	N/A	2007/03/21		
Phosphorus-P (Total, dissolved) (†)	2	2007/03/21	2007/03/21	ING 237 Rev 5.0	S M - 4 5 0 0 P F
Turbidity	2	N/A	2007/03/20	BRN SOP-00021 V2.0	SM - 2130B

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) SCC/CAEAL

Your Project #: 065133-02-02
Site: MINAGO HYDROGEOLOGY
Your C.O.C. #: F23417

L7.6-34

Attention: Alison Reineke
WARDROP ENGINEERING INC.
386 BROADWAY #400
WINNIPEG, MB
CANADA R3C 2M8

Report Date: 2007/04/02

CERTIFICATE OF ANALYSIS

Encryption Key  Rob MacArthur
02 Apr 2007 16:35:36 -07:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

ROB MACARTHUR, Customer Service Rep
Email: rob.macarthur@maxxamanalytics.com
Phone# (604) 444-4808 Ext:253

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Total cover pages: 2

Burnaby: 8577 Commerce Court V5A 4N5 Telephone(604) 444-4808 Fax(604) 444-4511

Page 2 of 10

Maxxam Job #: A710779
Report Date: 2007/04/02

WARDROP ENGINEERING INC. **L7.6-35**
Client Project #: 065133-02-02
Site Reference: MINAGO HYDROGEOLOGY
Sampler Initials: PS

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		E 7 0 1 3 3		E 7 0 1 3 4		
Sampling Date		2007/03/14 16:30		2007/03/13 16:00		
COC Number		F23417		F23417		
	Units	GR	RDL	RG	RDL	QC Batch

Misc. Inorganics						
Fluoride (F)	mg/L	5.91	0.05	0.59	0.01	1531816
Parameter						
Subcontract Parameter	N/A	ATTACHED	N/A	ATTACHED	N/A	1555337
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	194	0.5	171	0.5	1535506
Nitrate (N)	mg/L	0.078	0.002	0.051	0.002	1530450
Misc. Inorganics						
Alkalinity (Total as CaCO3)	mg/L	284	0.5	277	0.5	1530025
Alkalinity (PP as CaCO3)	mg/L	19.5	0.5	8.7	0.5	1530025
Bicarbonate (HCO3)	mg/L	298	0.5	317	0.5	1530025
Carbonate (CO3)	mg/L	23.4	0.5	10.4	0.5	1530025
Hydroxide (OH)	mg/L	<0.5	0.5	<0.5	0.5	1530025
Anions						
Dissolved Sulphate (SO4)	mg/L	667	5	33.1	0.5	1532237
Chloride (Cl)	mg/L	610	0.5	24.3	0.5	1532186
Nutrients						
Total Kjeldahl Nitrogen (Calc)	mg/L	0.97	0.02	0.15	0.02	1535507
Dissolved Phosphorus (P)	mg/L	0.004	0.002	0.012	0.002	1535075
Ammonia (N)	mg/L	0.493	0.005	0.154	0.005	1534850
Nitrate plus Nitrite (N)	mg/L	0.121	0.002	0.125	0.002	1530655
Nitrite (N)	mg/L	0.043	0.002	0.074	0.002	1530662
Total Nitrogen (N)	mg/L	1.10	0.02	0.27	0.02	1534867
Physical Properties						
Conductivity	uS/cm	3770	1	628	1	1530024
pH	pH Units	8.8	0.1	8.6	0.1	1530020
Physical Properties						
Total Dissolved Solids	mg/L	2370	1	354	1	1533636
Turbidity	NTU	1760	0.1	51.9	0.1	1529965

RDL = Reportable Detection Limit

Maxxam Job #: A710779
Report Date: 2007/04/02

WARDROP ENGINEERING INC. **L7.6-36**
Client Project #: 065133-02-02
Site Reference: MINAGO HYDROGEOLOGY
Sampler Initials: PS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		E 7 0 1 3 3		E 7 0 1 3 4		
Sampling Date		2007/03/14 16:30		2007/03/13 16:00		
COC Number		F23417		F23417		
	Units	GR	RDL	RG	RDL	QC Batch

Low Level Elements						
Dissolved Mercury (Hg)	mg/L	<0.00005	0.00005	<0.00005	0.00005	1530951
Dissolved Metals by ICP						
Dissolved Boron (B)	mg/L	3.71	0.008	0.379	0.008	1536998
Dissolved Calcium (Ca)	mg/L	15.3	0.05	23.1	0.05	1536998
Dissolved Iron (Fe)	mg/L	0.662	0.005	0.013	0.005	1536998
Dissolved Magnesium (Mg)	mg/L	10.7	0.05	23.9	0.05	1536998
Dissolved Phosphorus (P)	mg/L	<0.1	0.1	<0.1	0.1	1536998
Dissolved Silicon (Si)	mg/L	0.45	0.05	0.69	0.05	1536998
Dissolved Sodium (Na)	mg/L	840	0.05	73.0	0.05	1536998
Dissolved Sulphur (S)	mg/L	230	0.1	11.0	0.1	1536998
Dissolved Zirconium (Zr)	mg/L	<0.005	0.005	<0.005	0.005	1536998
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	mg/L	0.0440	0.0002	0.0247	0.0002	1534607
Dissolved Antimony (Sb)	mg/L	0.00016	0.00005	0.00019	0.00005	1534607
Dissolved Arsenic (As)	mg/L	0.0001	0.0001	0.0002	0.0001	1534607
Dissolved Barium (Ba)	mg/L	0.00849	0.00002	0.00995	0.00002	1534607
Dissolved Beryllium (Be)	mg/L	<0.00005	0.00005	<0.00005	0.00005	1534607
Dissolved Bismuth (Bi)	mg/L	<0.00005	0.00005	<0.00005	0.00005	1534607
Dissolved Cadmium (Cd)	mg/L	0.00007	0.00001	0.00005	0.00001	1534607
Dissolved Chromium (Cr)	mg/L	<0.001 (1)	0.001	0.0005	0.0002	1534607
Dissolved Cobalt (Co)	mg/L	0.00015	0.00002	0.00008	0.00002	1534607
Dissolved Copper (Cu)	mg/L	0.0029	0.0001	0.0002	0.0001	1534607
Dissolved Lead (Pb)	mg/L	0.00069	0.00002	0.00005	0.00002	1534607
Dissolved Lithium (Li)	mg/L	0.232	0.0002	0.0524	0.0002	1534607
Dissolved Manganese (Mn)	mg/L	0.0243	0.00002	0.0324	0.00002	1534607
Dissolved Molybdenum (Mo)	mg/L	0.0218	0.00002	0.0344	0.00002	1534607
Dissolved Nickel (Ni)	mg/L	0.0056	0.0005	<0.0005	0.0005	1534607
Dissolved Potassium (K)	mg/L	34.6	0.05	22.3	0.05	1534607
Dissolved Selenium (Se)	mg/L	<0.0005	0.0005	<0.0005	0.0005	1534607
Dissolved Silver (Ag)	mg/L	0.00013	0.00001	<0.00001	0.00001	1534607
Dissolved Strontium (Sr)	mg/L	0.223	0.00001	0.155	0.00001	1534607
Dissolved Thallium (Tl)	mg/L	<0.00005	0.00005	<0.00005	0.00005	1534607

RDL = Reportable Detection Limit
(1) MDL raised due to sample matrix interference.

Maxxam Job #: A710779
Report Date: 2007/04/02

WARDROP ENGINEERING INC.
Client Project #: 065133-02-02 **L7.6-37**
Site Reference: MINAGO HYDROGEOLOGY
Sampler Initials: PS

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		E 7 0 1 3 3		E 7 0 1 3 4		
Sampling Date		2007/03/14 16:30		2007/03/13 16:00		
COC Number		F23417		F23417		
	Units	GR	RDL	RG	RDL	QC Batch

Dissolved Tin (Sn)	mg/L	0.00022	0.00005	0.00006	0.00005	1534607
Dissolved Titanium (Ti)	mg/L	0.0005	0.0005	<0.0005	0.0005	1534607
Dissolved Uranium (U)	mg/L	0.00234	0.00001	0.00767	0.00001	1534607
Dissolved Vanadium (V)	mg/L	<0.0005 (1)	0.0005	0.00008	0.00005	1534607
Dissolved Zinc (Zn)	mg/L	0.0174	0.0005	0.0006	0.0005	1534607
Total Metals by ICP						
Total Calcium (Ca)	mg/L	20.4	0.05	25.5	0.05	1542201
Total Magnesium (Mg)	mg/L	34.6	0.05	26.2	0.05	1542201

RDL = Reportable Detection Limit
(1) MDL raised due to sample matrix interference.

Maxxam Job #: A710779
Report Date: 2007/04/02

WARDROP ENGINEERING INC. **L7.6-38**
Client Project #: 065133-02-02
Site Reference: MINAGO HYDROGEOLOGY
Sampler Initials: PS

RESULTS OF CHEMICAL ANALYSES OF WATER Comments

Sample E70133-01 Fluoride: Detection limits raised due to dilution.

Results relate only to the items tested.

WARDROP ENGINEERING INC. **L7.6-39**
 Attention: Alison Reineke
 Client Project #: 065133-02-02
 P.O. #:
 Site Reference: MINAGO HYDROGEOLOGY

Quality Assurance Report
 Maxxam Job Number: VA710779

QA/QC Batch	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits
1529965 CK	SPIKE	Turbidity	2007/03/20		103	%	80 - 120
	BLANK	Turbidity	2007/03/20	<0.1		NTU	
	RPD	Turbidity	2007/03/20	NC		%	25
1530020 MM3	SPIKE	pH	2007/03/19		102	%	96 - 104
	RPD [E 7 0 1 3041-]	pH	2007/03/19	0.1		%	25
1530024 MM3	SPIKE	Conductivity	2007/03/19		102	%	80 - 120
	BLANK	Conductivity	2007/03/19	<1		uS/cm	
	RPD [E 7 0 1 3041-]	Conductivity	2007/03/19	1.3		%	25
1530025 MM3	MATRIX SPIKE	Alkalinity (Total as CaCO3)	2007/03/19		103	%	80 - 120
	SPIKE	Alkalinity (Total as CaCO3)	2007/03/19		96	%	80 - 120
	BLANK	Alkalinity (Total as CaCO3)	2007/03/19	<0.5		mg/L	
		Alkalinity (PP as CaCO3)	2007/03/19	<0.5		mg/L	
		Bicarbonate (HCO3)	2007/03/19	<0.5		mg/L	
		Carbonate (CO3)	2007/03/19	<0.5		mg/L	
		Hydroxide (OH)	2007/03/19	<0.5		mg/L	
	RPD [E 7 0 1 3041-]	Alkalinity (Total as CaCO3)	2007/03/19	0.9		%	25
		Alkalinity (PP as CaCO3)	2007/03/19	8.2		%	25
		Bicarbonate (HCO3)	2007/03/19	0.5		%	25
		Carbonate (CO3)	2007/03/19	8.2		%	25
	Hydroxide (OH)	2007/03/19	NC		%	25	
1530655 BB3	MATRIX SPIKE [E70134-01]	Nitrate plus Nitrite (N)	2007/03/19		110	%	80 - 120
	SPIKE	Nitrate plus Nitrite (N)	2007/03/19		102	%	80 - 120
	BLANK	Nitrate plus Nitrite (N)	2007/03/19	<0.002		mg/L	
	RPD [E 7 0 1 3041-]	Nitrate plus Nitrite (N)	2007/03/19	0		%	25
1530662 BB3	MATRIX SPIKE [E70134-01]	Nitrite (N)	2007/03/19		107	%	80 - 120
	SPIKE	Nitrite (N)	2007/03/19		96	%	80 - 120
	BLANK	Nitrite (N)	2007/03/19	<0.002		mg/L	
	RPD [E 7 0 1 3041-]	Nitrite (N)	2007/03/19	2.7		%	25
1530951 JT3	MATRIX SPIKE	Dissolved Mercury (Hg)	2007/03/20		108	%	70 - 130
	QC STANDARD	Dissolved Mercury (Hg)	2007/03/20		104	%	80 - 120
	SPIKE	Dissolved Mercury (Hg)	2007/03/20		105	%	80 - 120
	BLANK	Dissolved Mercury (Hg)	2007/03/20	<0.05		ug/L	
	RPD [E 7 0 1 3031-]	Dissolved Mercury (Hg)	2007/03/20	NC		%	25
1531816 WAY	MATRIX SPIKE	Fluoride (F)	2007/03/21		95	%	80 - 120
	SPIKE	Fluoride (F)	2007/03/21		104	%	80 - 120
	BLANK	Fluoride (F)	2007/03/21	0.02, RDL=0.01		mg/L	
	RPD [E 7 0 1 3041-]	Fluoride (F)	2007/03/21	8.0		%	25
1532186 NN	MATRIX SPIKE	Chloride (Cl)	2007/03/20		111	%	80 - 120
	SPIKE	Chloride (Cl)	2007/03/20		101	%	80 - 120
	BLANK	Chloride (Cl)	2007/03/20	<0.5		mg/L	
	RPD	Chloride (Cl)	2007/03/20	NC		%	20
1532237 NN	MATRIX SPIKE	Dissolved Sulphate (SO4)	2007/03/20		108	%	75 - 125
	SPIKE	Dissolved Sulphate (SO4)	2007/03/20		95	%	80 - 120
	BLANK	Dissolved Sulphate (SO4)	2007/03/20	<0.5		mg/L	
	RPD	Dissolved Sulphate (SO4)	2007/03/20	1.4		%	20
1533636 VL	MATRIX SPIKE [E70134-01]	Total Dissolved Solids	2007/03/26		92	%	80 - 120
	SPIKE	Total Dissolved Solids	2007/03/26		96	%	80 - 120
	BLANK	Total Dissolved Solids	2007/03/26	2, RDL=1		mg/L	
	RPD [E 7 0 1 3041-]	Total Dissolved Solids	2007/03/26	0		%	25
1534607 AA1	MATRIX SPIKE	Dissolved Arsenic (As)	2007/03/21		111	%	75 - 125
		Dissolved Cadmium (Cd)	2007/03/21		107	%	75 - 125
		Dissolved Chromium (Cr)	2007/03/21		106	%	75 - 125

WARDROP ENGINEERING INC. **L7.6-40**
 Attention: Alison Reineke
 Client Project #: 065133-02-02
 P.O. #:
 Site Reference: MINAGO HYDROGEOLOGY

Quality Assurance Report (Continued)
 Maxxam Job Number: VA710779

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1534607 AA1	MATRIX SPIKE	Dissolved Cobalt (Co)	2007/03/21		105	%	75 - 125	
		Dissolved Copper (Cu)	2007/03/21		111	%	75 - 125	
		Dissolved Lead (Pb)	2007/03/21		112	%	75 - 125	
		Dissolved Selenium (Se)	2007/03/21		106	%	75 - 125	
		Dissolved Thallium (Tl)	2007/03/21		108	%	75 - 125	
		Dissolved Zinc (Zn)	2007/03/21		106	%	75 - 125	
	SPIKE	Dissolved Arsenic (As)	2007/03/21		95	%	75 - 125	
		Dissolved Cadmium (Cd)	2007/03/21		96	%	75 - 125	
		Dissolved Chromium (Cr)	2007/03/21		106	%	75 - 125	
		Dissolved Cobalt (Co)	2007/03/21		109	%	75 - 125	
		Dissolved Copper (Cu)	2007/03/21		106	%	75 - 125	
		Dissolved Lead (Pb)	2007/03/21		105	%	75 - 125	
	BLANK	Dissolved Selenium (Se)	2007/03/21		91	%	75 - 125	
		Dissolved Thallium (Tl)	2007/03/21		97	%	75 - 125	
		Dissolved Zinc (Zn)	2007/03/21		100	%	75 - 125	
		Dissolved Aluminum (Al)	2007/03/21	<0.2			ug/L	
		Dissolved Antimony (Sb)	2007/03/21	<0.05			ug/L	
		Dissolved Arsenic (As)	2007/03/21	<0.1			ug/L	
		Dissolved Barium (Ba)	2007/03/21	<0.02			ug/L	
		Dissolved Beryllium (Be)	2007/03/21	<0.05			ug/L	
		Dissolved Bismuth (Bi)	2007/03/21	<0.05			ug/L	
		Dissolved Cadmium (Cd)	2007/03/21	<0.01			ug/L	
		Dissolved Chromium (Cr)	2007/03/21	<0.2			ug/L	
		Dissolved Cobalt (Co)	2007/03/21	<0.02			ug/L	
		Dissolved Copper (Cu)	2007/03/21	<0.1			ug/L	
		Dissolved Lead (Pb)	2007/03/21	<0.02			ug/L	
		Dissolved Lithium (Li)	2007/03/21	<0.2			ug/L	
		Dissolved Manganese (Mn)	2007/03/21	<0.02			ug/L	
		Dissolved Molybdenum (Mo)	2007/03/21	<0.02			ug/L	
		Dissolved Nickel (Ni)	2007/03/21	<0.5			ug/L	
		Dissolved Potassium (K)	2007/03/21	<50			ug/L	
		Dissolved Selenium (Se)	2007/03/21	<0.5			ug/L	
		Dissolved Silver (Ag)	2007/03/21	<0.01			ug/L	
Dissolved Strontium (Sr)		2007/03/21	<0.01			ug/L		
Dissolved Thallium (Tl)		2007/03/21	<0.05			ug/L		
Dissolved Tin (Sn)		2007/03/21	<0.05			ug/L		
Dissolved Titanium (Ti)	2007/03/21	<0.5			ug/L			
Dissolved Uranium (U)	2007/03/21	<0.01			ug/L			
Dissolved Vanadium (V)	2007/03/21	<0.05			ug/L			
Dissolved Zinc (Zn)	2007/03/21	<0.5			ug/L			
RPD	Dissolved Aluminum (Al)	2007/03/21	0.5			%	25	
	Dissolved Antimony (Sb)	2007/03/21	3.4			%	25	
	Dissolved Arsenic (As)	2007/03/21	2.3			%	25	
	Dissolved Barium (Ba)	2007/03/21	2.5			%	25	
	Dissolved Beryllium (Be)	2007/03/21	NC			%	25	
	Dissolved Bismuth (Bi)	2007/03/21	NC			%	25	
	Dissolved Cadmium (Cd)	2007/03/21	1.9			%	25	
	Dissolved Chromium (Cr)	2007/03/21	NC			%	25	
	Dissolved Cobalt (Co)	2007/03/21	NC			%	25	
	Dissolved Copper (Cu)	2007/03/21	0.5			%	25	
	Dissolved Lead (Pb)	2007/03/21	3.1			%	25	
	Dissolved Lithium (Li)	2007/03/21	NC			%	25	
	Dissolved Manganese (Mn)	2007/03/21	2.8			%	25	
	Dissolved Molybdenum (Mo)	2007/03/21	0.4			%	25	
	Dissolved Nickel (Ni)	2007/03/21	NC			%	25	

WARDROP ENGINEERING INC. **L7.6-41**
 Attention: Alison Reineke
 Client Project #: 065133-02-02
 P.O. #:
 Site Reference: MINAGO HYDROGEOLOGY

Quality Assurance Report (Continued)
 Maxxam Job Number: VA710779

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1534607 AA1	RPD	Dissolved Potassium (K)	2007/03/21	2.5		%	25	
		Dissolved Selenium (Se)	2007/03/21	NC		%	25	
		Dissolved Silver (Ag)	2007/03/21	NC		%	25	
		Dissolved Strontium (Sr)	2007/03/21	3.9		%	25	
		Dissolved Thallium (Tl)	2007/03/21	NC		%	25	
		Dissolved Tin (Sn)	2007/03/21	NC		%	25	
		Dissolved Titanium (Ti)	2007/03/21	NC		%	25	
		Dissolved Uranium (U)	2007/03/21	1.6		%	25	
		Dissolved Vanadium (V)	2007/03/21	NC		%	25	
		Dissolved Zinc (Zn)	2007/03/21	6.6		%	25	
1534850 NN	MATRIX SPIKE	Ammonia (N)	2007/03/21		71 (1)	%	80 - 120	
	SPIKE	Ammonia (N)	2007/03/21		108	%	80 - 120	
	BLANK	Ammonia (N)	2007/03/21	<0.005		mg/L		
	RPD	Ammonia (N)	2007/03/21	NC		%	25	
1534867 BB3	MATRIX SPIKE	Total Nitrogen (N)	2007/03/22		105	%	80 - 120	
	SPIKE	Total Nitrogen (N)	2007/03/22		91	%	80 - 120	
	BLANK	Total Nitrogen (N)	2007/03/22	<0.02		mg/L		
	RPD [E 7 0 1 3041-]	Total Nitrogen (N)	2007/03/22	9.8		%	25	
1535075 TS1	MATRIX SPIKE	Dissolved Phosphorus (P)	2007/03/21		91	%	80 - 120	
	SPIKE	Dissolved Phosphorus (P)	2007/03/21		101	%	80 - 120	
	BLANK	Dissolved Phosphorus (P)	2007/03/21	0.002, RDL=0.002		mg/L		
	RPD	Dissolved Phosphorus (P)	2007/03/21	NC		%	20	
1536998 GS2	BLANK	Dissolved Boron (B)	2007/03/21	<0.008		mg/L		
		Dissolved Calcium (Ca)	2007/03/21	<0.05		mg/L		
		Dissolved Iron (Fe)	2007/03/21	<0.005		mg/L		
		Dissolved Magnesium (Mg)	2007/03/21	<0.05		mg/L		
		Dissolved Phosphorus (P)	2007/03/21	<0.1		mg/L		
		Dissolved Silicon (Si)	2007/03/21	<0.05		mg/L		
		Dissolved Sodium (Na)	2007/03/21	<0.05		mg/L		
		Dissolved Sulphur (S)	2007/03/21	<0.1		mg/L		
		Dissolved Zirconium (Zr)	2007/03/21	<0.005		mg/L		
		RPD	Dissolved Boron (B)	2007/03/21	NC		%	25
		Dissolved Calcium (Ca)	2007/03/21	1.0		%	25	
		Dissolved Iron (Fe)	2007/03/21	2.4		%	25	
		Dissolved Magnesium (Mg)	2007/03/21	1.3		%	25	
		Dissolved Phosphorus (P)	2007/03/21	NC		%	25	
		Dissolved Sodium (Na)	2007/03/21	1.3		%	25	
		Dissolved Sulphur (S)	2007/03/21	1		%	25	
		Dissolved Zirconium (Zr)	2007/03/21	NC		%	25	
	1542201 GS2	BLANK	Total Calcium (Ca)	2007/03/26	<0.05		mg/L	
			Total Magnesium (Mg)	2007/03/26	<0.05		mg/L	
		RPD	Total Calcium (Ca)	2007/03/26	NC		%	25
Total Magnesium (Mg)			2007/03/26	NC		%	25	

NC = Non-calculable
 RPD = Relative Percent Difference
 (1) Matrix Spike invalid due to high sample concentration.



8577 Commerce Court
Burnaby, BC V5A 4N5
www.maxxamanalytics.com

Phone: (604) 444-4808
Fax: (604) 444-4511
Toll Free: 1-800-440-4808

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST PAGE 1 OF 1

A710779

ANALYSIS REQUEST

F 23417

COMPANY NAME: **Wardrop Engineering**
 COMPANY ADDRESS: **Attn: Alison Reineke
400-386 Broadway
Wpg, MB R3C 4M8**
 SAMPLER NAME (PRINT): **Patrick Solylo**

PH #: **(204) 956-0980**
 E-mail: **alison@reineke@wardrop.com**
 FAX #: **(204) 957-5329**
 CLIENT PROJECT ID: (#) **065133-02-02**
 PROJECT MANAGER: **Doug Ramsey**

FIELD SAMPLE ID	MAXXAM LAB # (Lab Use Only)	MATRIX					# CONTAINERS	SAMPLING		HEADSPACE VAPOUR	Dissolved Metals & Hg	TDS	total Hard (carb, bicarb, sulphate)	total Radium 226	turbid, total alkalinity	SO ₄ , NO ₃ , NO ₂ , NH ₄ , Cl ⁻	diss P	NH ₄ -	pH, conductivity	Fluoride
		GROUND WATER	SURFACE WATER	SOIL	OTHER	DATE DD/MM/YY		TIME												
1 RG	E70134	X				5	13/03/07	16:00		X	X	X	X	X	X	X	X	X	X	X
2 GR	133	X				5	14/03/07	16:30		X	X	X	X	X	X	X	X	X	X	X
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Vertical text in table cells:
 Dissolved Metals & Hg
 TDS
 total Hard (carb, bicarb, sulphate)
 total Radium 226
 turbid, total alkalinity
 SO₄, NO₃, NO₂, NH₄, Cl⁻
 diss P
 NH₄-
 pH, conductivity
 Fluoride

Horizontal text in table cells:
 Preserved (vertical arrow pointing up)
 Preserved (vertical arrow pointing up)

TAT (Turnaround Time)
<5 DAY TAT MUST HAVE PRIOR APPROVAL
 *some exceptions apply please contact lab

STANDARD 5 BUSINESS DAYS
 RUSH 3 BUSINESS DAYS
 RUSH 2 BUSINESS DAYS
 URGENT 1 BUSINESS DAY
 OTHER BUSINESS DAYS

P.O. NUMBER / QUOTE NUMBER:
 ACCOUNTING CONTACT:
 RELINQUISHED BY SAMPLER:
 RELINQUISHED BY:
 RELINQUISHED BY:

SPECIAL DETECTION LIMITS / CONTAMINANT TYPE:
 *rpt via email as pdf & excel

SPECIAL REPORTING OR BILLING INSTRUCTIONS:
 please report elements/metals in mg/L

DATE: 16/03/07 TIME: 14:00
 DATE: 03-17-07 TIME: 12:00

LAB USE ONLY

ARRIVAL TEMPERATURE °C: 11.1
 DUE DATE: Mar 26/07
 LOG IN CHECK:

JARS USED:
 CS Intact

RECEIVED BY:
 RECEIVED BY:
 RECEIVED BY LABORATORY: X.M

CUSTODY

L7.6-42

L7.6-43

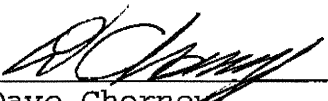
SRC Group: 2007-1305

SRC ANALYTICAL
422 Downey Road
Saskatoon, Saskatchewan, S7N 4N1
(306) 933-6932 or 1-800-240-8808
Fax: (306) 933-7922

Maxxam Analytics Inc
8577 Commerce Court
Burnaby, British Columbia V5A 4N5
Attn: Subcontract Coordinator

Date Samples Received: Mar-07-2007 Client P.O.: JOB#A708605

Analysis has been reviewed by:



Dave Chorney
Radiochemistry and SLOWPOKE II Supervisor

- * Test methods and data are validated by the laboratory's Quality Assurance Program. SRC Analytical is accredited by the Canadian Association for Environmental Analytical Laboratories (CAEAL) for specific tests listed in the scope of accreditation approved by CAEAL.
- * Routine methods follow recognized procedures from sources such as
 - * Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF
 - * Environment Canada
 - * US EPA
 - * CANMET
- * Samples will be kept for 30 working days after the final report is sent. Please contact the lab if you have any special requirements.

L7.6-44

SRC Group # 2007-1305

Mar 13, 2007

SRC ANALYTICAL

422 Downey Road
Saskatoon, Saskatchewan, Canada
S7N 4N1
(306) 933-6932 or 1-800-240-8808
Fax: (306) 933-7922

Maxxam Analytics Inc
8577 Commerce Court
Burnaby, British Columbia V5A 4N5
Attn: Subcontract Coordinator

Page 1 of 2

Sample #	5068	Client PO #:	JOB#A708605
Date Sampled:	Mar 01, 2007	Date Received:	Mar 07, 2007
Sample Matrix:	WATER		
Description:	E56371-01R\OB		

Analyte	Units	Result	+/-	DL	Date Entered
Radio Chemistry					
Radium-226	Bq/L	0.06	0.02	0.005	Mar 13, 2007

L7.6-45

SRC Group # 2007-1305

SRC ANALYTICAL

Mar 13, 2007

Maxxam Analytics Inc

Page 2 of 2

Sample # **5069** Client PO #: **JOB#A708605**
Date Sampled: **Mar 01, 2007** Date Received: **Mar 07, 2007**
Sample Matrix: **WATER**
Description: **E56372-01R\OB-2**

Analyte	Units	Result	+/-	DL	Date Entered
Radio Chemistry					
Radium-226	Bq/L	0.007	0.005	0.005	Mar 13, 2007

L7.6-46**SRC ANALYTICAL**

422 Downey Road
 Saskatoon, Saskatchewan, Canada
 S7N 4N1
 (306) 933-6932 or 1-800-240-8808
 Fax: (306) 933-7922

Mar 13, 2007

Quality Control Report

Subcontract Coordinator
 Maxxam Analytics Inc
 8577 Commerce Court
 Burnaby, British Columbia, V5A 4N5

This report was generated for samples included in SRC Group # 2007-1305

Page 1 of 1

Reference Materials and Standards

A reference material of known concentration is used whenever possible as either a control sample or control standard and analyzed with each batch of samples. These "QC" results are used to assess the performance of the method and must be within clearly defined limits; otherwise corrective action is required.

QC Analysis	Units	Target Value	Obtained Value
Radium-226	Bq/L	21.4	22.91
Radium-226	Bq/L	0.0430	0.0546

Duplicates:

Duplicates are used to assess problems with precision and help ensure that samples within a given batch were processed appropriately. The difference between duplicates must be within strict limits, otherwise corrective action is required.

Duplicate Analysis	Units	First Result	Second Result
Radium-226	Bq/L	0.009	0.009

All quality control results were within the specified limits and considered acceptable.

Signed: _____

Dale Sanders - Quality Control Supervisor

SRC ANALYTICAL

422 Downey Road
Saskatoon, Saskatchewan, S7N 4N1
(306) 933-6932 or 1-800-240-8808
Fax: (306) 933-7922

Maxxam Analytics Inc
8577 Commerce Court
Burnaby, British Columbia V5A 4N5
Attn: Subcontract Coordinator

Date Samples Received: Mar-12-2007 Client P.O.: JOB #A709269

Analysis has been reviewed by:



Dave Chorney
Radiochemistry and SLOWPOKE II Supervisor

- * Test methods and data are validated by the laboratory's Quality Assurance Program. SRC Analytical is accredited by the Canadian Association for Environmental Analytical Laboratories (CAEAL) for specific tests listed in the scope of accreditation approved by CAEAL.
- * Routine methods follow recognized procedures from sources such as
 - * Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF
 - * Environment Canada
 - * US EPA
 - * CANMET
- * Samples will be kept for 30 working days after the final report is sent. Please contact the lab if you have any special requirements.

L7.6-48

SRC Group # 2007-1459

Mar 22, 2007

SRC ANALYTICAL

422 Downey Road
Saskatoon, Saskatchewan, Canada
S7N 4N1
(306) 933-6932 or 1-800-240-8808
Fax: (306) 933-7922

Maxxam Analytics Inc
8577 Commerce Court
Burnaby, British Columbia V5A 4N5
Attn: Subcontract Coordinator

Page 1 of 3

Sample #	5468	Client PO #:	JOB #A709269
Date Sampled:	Mar 03, 2007	Date Received:	Mar 12, 2007
Sample Matrix:	WATER		
Description:	E61091-01R/LM		

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.11	0.005	Mar 21, 2007

SRC ANALYTICAL

Mar 22, 2007

Maxxam Analytics Inc

Page 2 of 3

Sample # **5469** Client PO #: **JOB #A709269**
Date Sampled: **Mar 03, 2007** Date Received: **Mar 12, 2007**
Sample Matrix: **WATER**
Description: **E61092-01R/LM2**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.04	0.005	Mar 21, 2007

SRC ANALYTICAL

Mar 22, 2007

Maxxam Analytics Inc

Page 3 of 3

Sample # **5470** Client PO #: **JOB #A709269**
Date Sampled: **Mar 03, 2007** Date Received: **Mar 12, 2007**
Sample Matrix: **WATER**
Description: **E61093-01R/DUP A**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.06	0.005	Mar 21, 2007



SRC ANALYTICAL

422 Downey Road
 Saskatoon, Saskatchewan, Canada
 S7N 4N1
 (306) 933-6932 or 1-800-240-8808
 Fax: (306) 933-7922

Mar 22, 2007

Quality Control Report

Subcontract Coordinator
 Maxxam Analytics Inc
 8577 Commerce Court
 Burnaby, British Columbia, V5A 4N5

This report was generated for samples included in SRC Group # 2007-1459

Page 1 of 1

Reference Materials and Standards

A reference material of known concentration is used whenever possible as either a control sample or control standard and analyzed with each batch of samples. These "QC" results are used to assess the performance of the method and must be within clearly defined limits; otherwise corrective action is required.

QC Analysis	Units	Target Value	Obtained Value
Radium-226	Bq/L	21.4	20.19
Radium-226	Bq/L	0.0430	0.0392

Duplicates:

Duplicates are used to assess problems with precision and help ensure that samples within a given batch were processed appropriately. The difference between duplicates must be within strict limits, otherwise corrective action is required.

Duplicate Analysis	Units	First Result	Second Result
Radium-226	Bq/L	0.012	0.011

All quality control results were within the specified limits and considered acceptable.

Signed: _____

Dale Sanders - Quality Control Supervisor

L7.6-52

SRC Group: 2007-1539

SRC ANALYTICAL

422 Downey Road
Saskatoon, Saskatchewan, S7N 4N1
(306) 933-6932 or 1-800-240-8808
Fax: (306) 933-7922

Maxxam Analytics Inc
8577 Commerce Court
Burnaby, British Columbia V5A 4N5
Attn: Subcontract Coordinator

Date Samples Received: Mar-14-2007 Client P.O.: JOB# A709686

Analysis has been reviewed by:



Dave Chorney
Radiochemistry and SLOWPOKE II Supervisor

- * Test methods and data are validated by the laboratory's Quality Assurance Program. SRC Analytical is accredited by the Canadian Association for Environmental Analytical Laboratories (CAEAL) for specific tests listed in the scope of accreditation approved by CAEAL.
- * Routine methods follow recognized procedures from sources such as
 - * Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF
 - * Environment Canada
 - * US EPA
 - * CANMET
- * Samples will be kept for 30 working days after the final report is sent. Please contact the lab if you have any special requirements.

SRC Group # 2007-1539

SRC ANALYTICAL

Mar 22, 2007

422 Downey Road
Saskatoon, Saskatchewan, Canada
S7N 4N1
(306) 933-6932 or 1-800-240-8808
Fax: (306) 933-7922

Maxxam Analytics Inc
8577 Commerce Court
Burnaby, British Columbia V5A 4N5
Attn: Subcontract Coordinator

Page 1 of 3

Sample #	5713	Client PO #:	JOB# A709686
Date Sampled:	Mar 07, 2007	Date Received:	Mar 14, 2007
Sample Matrix:	WATER		
Description:	E63895-01R ISS		

Analyte	Units	Result	DL
Radio Chemistry			
Radium-226	Bq/L	0.02	0.005

L7.6-54

SRC Group # 2007-1539

SRC ANALYTICAL

Mar 22, 2007

Maxxam Analytics Inc

Page 2 of 3

Sample #	5714	Client PO #:	JOB# A709686
Date Sampled:	Mar 07, 2007	Date Received:	Mar 14, 2007
Sample Matrix:	WATER		
Description:	E63896-01R ISS-2		

Analyte	Units	Result	DL
Radio Chemistry			
Radium-226	Bq/L	0.01	0.005

SRC Group # 2007-1539

SRC ANALYTICAL

Mar 22, 2007

Maxxam Analytics Inc

Page 3 of 3

Sample #	5715	Client PO #:	JOB# A709686
Date Sampled:	Mar 12, 2007	Date Received:	Mar 14, 2007
Sample Matrix:	WATER		
Description:	E63897-01R ITRIP BLANK		

Analyte	Units	Result	DL
Radio Chemistry			
Radium-226	Bq/L	<0.005	0.005

"<": not detected at level stated above.



SRC ANALYTICAL

422 Downey Road
 Saskatoon, Saskatchewan, Canada
 S7N 4N1
 (306) 933-6932 or 1-800-240-8808
 Fax: (306) 933-7922

Mar 22, 2007

Quality Control Report

Subcontract Coordinator
 Maxxam Analytics Inc
 8577 Commerce Court
 Burnaby, British Columbia, V5A 4N5

This report was generated for samples included in SRC Group # 2007-1539

Page 1 of 1

Reference Materials and Standards

A reference material of known concentration is used whenever possible as either a control sample or control standard and analyzed with each batch of samples. These "QC" results are used to assess the performance of the method and must be within clearly defined limits; otherwise corrective action is required.

QC Analysis	Units	Target Value	Obtained Value
Radium-226	Bq/L	21.4	21.65
Radium-226	Bq/L	0.4270	0.4253

Duplicates:

Duplicates are used to assess problems with precision and help ensure that samples within a given batch were processed appropriately. The difference between duplicates must be within strict limits, otherwise corrective action is required.

Duplicate Analysis	Units	First Result	Second Result
Radium-226	Bq/L	0.02	0.01

All quality control results were within the specified limits and considered acceptable.

Signed: _____

Dale Sanders - Quality Control Supervisor

SRC ANALYTICAL

422 Downey Road
Saskatoon, Saskatchewan, S7N 4N1
(306) 933-6932 or 1-800-240-8808
Fax: (306) 933-7922

Maxxam Analytics Inc
8577 Commerce Court
Burnaby, British Columbia V5A 4N5
Attn: Subcontract Coordinator

Date Samples Received: Mar-20-2007 Client P.O.: JOB#A710779

Analysis has been reviewed by:



Dave Chorney
Radiochemistry and SLOWPOKE II Supervisor

- * Test methods and data are validated by the laboratory's Quality Assurance Program. SRC Analytical is accredited by the Canadian Association for Environmental Analytical Laboratories (CAEAL) for specific tests listed in the scope of accreditation approved by CAEAL.
- * Routine methods follow recognized procedures from sources such as
 - * Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF
 - * Environment Canada
 - * US EPA
 - * CANMET
- * Samples will be kept for 30 working days after the final report is sent. Please contact the lab if you have any special requirements.

L7.6-58

SRC Group # 2007-1674

Mar 30, 2007

SRC ANALYTICAL

422 Downey Road
Saskatoon, Saskatchewan, Canada
S7N 4N1
(306) 933-6932 or 1-800-240-8808
Fax: (306) 933-7922

Maxxam Analytics Inc
8577 Commerce Court
Burnaby, British Columbia V5A 4N5
Attn: Subcontract Coordinator

Page 1 of 2

Sample # **6121** Client PO #: **JOB#A710779**
Date Sampled: **Mar 16, 2007** Date Received: **Mar 20, 2007**
Sample Matrix: **WATER**
Description: **E70133-01R\GR**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.23	0.01	Mar 30, 2007

SRC ANALYTICAL

Mar 30, 2007

Maxxam Analytics Inc

Page 2 of 2

Sample # **6122**
Date Sampled: **Mar 16, 2007**
Sample Matrix: **WATER**
Description: **E70134-01R\RG**

Client PO #: **JOB#A710779**
Date Received: **Mar 20, 2007**

Analyte	Units	Result	DL	Date Entered
Radio Chemistry				
Radium-226	Bq/L	0.20	0.01	Mar 30, 2007



SRC ANALYTICAL

422 Downey Road
Saskatoon, Saskatchewan, Canada
S7N 4N1
(306) 933-6932 or 1-800-240-8808
Fax: (306) 933-7922

L7.6-60

Mar 30, 2007

Quality Control Report

Subcontract Coordinator
Maxxam Analytics Inc
8577 Commerce Court
Burnaby, British Columbia, V5A 4N5

This report was generated for samples included in SRC Group # 2007-1674

Page 1 of 1

Reference Materials and Standards

A reference material of known concentration is used whenever possible as either a control sample or control standard and analyzed with each batch of samples. These "QC" results are used to assess the performance of the method and must be within clearly defined limits; otherwise corrective action is required.

QC Analysis	Units	Target Value	Obtained Value
Radium-226	Bq/L	21.4	20.56
Radium-226	Bq/L	0.4270	0.4037

Duplicates:

Duplicates are used to assess problems with precision and help ensure that samples within a given batch were processed appropriately. The difference between duplicates must be within strict limits, otherwise corrective action is required.

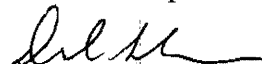
Duplicate Analysis	Units	First Result	Second Result
Radium-226	Bq/L	0.0229	0.0269

Spikes and/or Surrogates:

Samples spiked with a known quantity of the analyte of interest or a surrogate which is a known quantity of a compound which behaves in a similar manner to the analyte of interest, are used to assess problems with the sample processing or sample matrix. The recovery must be within clearly defined limits when the quantity of spike is comparable to the sample concentration.

Spike Analysis	% Recovered
Radium-226	93.23

All quality control results were within the specified limits and considered acceptable.

Signed: 
Dale Sanders - Quality Control Supervisor

APPENDIX L7.6-B

Certified Laboratory Reports for Groundwater Quality

March 27, 2008 Results



Environmental Division

ANALYTICAL REPORT

VICTORY NICKEL INC.

ATTN: DR. DAVID MCHAINA

#1802 - 80 RICHMOND STREET WEST

TORONTO ON M5H 2A4

Reported On: 11-APR-08 05:58 PM

Revision: 2

Lab Work Order #: **L614153**

Date Received: **28-MAR-08**

Project P.O. #:

Job Reference: MINAGAO PROJECT

Legal Site Desc: MINAGO PROJECT

CofC Numbers:

Other Information:

Comments: Please note: results for travel and field blank samples were confirmed by re-analysis.

Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Bryan Mark

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS Canada Ltd.
Part of the **ALS Laboratory Group**

1988 Triumph Street, Vancouver, BC V5L 1K5
Phone: +1 604 253 4188 Fax: +1 604 253 6700 www.alsglobal.com
A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L614153-1	L614153-2	L614153-3	L614153-4	Column added by Victory Nickel Inc.
		Description					
		Sampled Date	27-MAR-08	27-MAR-08			
		Sampled Time	08:30	10:00			
		Client ID	MW-GR-5	MW-SLS-5	FIELD BLANK	TRAVEL BLANK	Concentrations in the Deionized Water at the time of preparation at ALS Winnipeg Lab
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO3) (mg/L)		220	192	<0.50	<0.50	<0.50
	Conductivity (uS/cm)		743	765			
	pH (pH)		8.21	7.97			
	Total Dissolved Solids (mg/L)		413	362			
	Total Suspended Solids (mg/L)		117	10700			
	Turbidity (NTU)		89.8	>4000			
Anions and Nutrients	Ammonia as N (mg/L)		0.149	0.134			
	Acidity (as CaCO3) (mg/L)		1.9	4.7			
	Alkalinity, Bicarbonate (as CaCO3) (mg/L)		330	292			
	Alkalinity, Carbonate (as CaCO3) (mg/L)		<1.0	<1.0			
	Alkalinity, Hydroxide (as CaCO3) (mg/L)		<1.0	<1.0			
	Alkalinity, Total (as CaCO3) (mg/L)		330	292			
	Bromide (Br) (mg/L)		0.102	<0.050			
	Chloride (Cl) (mg/L)		30.8	27.5			
	Fluoride (F) (mg/L)		0.955	0.337			
	Sulfate (SO4) (mg/L)		35.8	105			
	Nitrate (as N) (mg/L)		0.91	1.53			
	Nitrite (as N) (mg/L)		0.13	0.12			
	Total Kjeldahl Nitrogen (mg/L)		0.211	13.0			
	Total Nitrogen (mg/L)		1.24	14.7			
Cyanides	Cyanide, Weak Acid Diss (mg/L)		<0.0050	<0.0050			
Total Metals	Aluminum (Al)-Total (mg/L)				<0.0010	<0.0010	<0.005
	Antimony (Sb)-Total (mg/L)				0.000909	0.000798	<0.001
	Arsenic (As)-Total (mg/L)				<0.000030	<0.000030	<0.0005
	Barium (Ba)-Total (mg/L)				<0.000050	<0.000050	<0.0003
	Beryllium (Be)-Total (mg/L)				<0.00020	<0.00020	<0.001
	Bismuth (Bi)-Total (mg/L)				<0.00050	<0.00050	<0.0001
	Boron (B)-Total (mg/L)				0.0018	0.0019	<0.03
	Cadmium (Cd)-Total (mg/L)				<0.000017	<0.000017	<0.00002
	Calcium (Ca)-Total (mg/L)				<0.020	<0.020	<0.1
	Chromium (Cr)-Total (mg/L)				<0.00010	<0.00010	<0.001
	Cobalt (Co)-Total (mg/L)				<0.00010	<0.00010	<0.0002
	Copper (Cu)-Total (mg/L)				<0.00010	0.00129	<0.001
	Iron (Fe)-Total (mg/L)				<0.010	<0.010	<0.05
	Lead (Pb)-Total (mg/L)				<0.000050	<0.000050	<0.0005
	Lithium (Li)-Total (mg/L)				<0.0050	<0.0050	<0.01
	Magnesium (Mg)-Total (mg/L)				<0.0050	<0.0050	<0.01
	Manganese (Mn)-Total (mg/L)				<0.000050	<0.000050	<0.0003

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L614153-1	L614153-2	L614153-3	L614153-4	Column added by Victory Nickel Inc.
		Description					Concentrations
		Sampled Date	27-MAR-08	27-MAR-08			in the Deionized
		Sampled Time	08:30	10:00			Water at the time
		Client ID	MW-GR-5	MW-SLS-5	FIELD BLANK	TRAVEL BLANK	of preparation at
Grouping	Analyte						ALS Winnipeg Lab
WATER							
Total Metals	Mercury (Hg)-Total (mg/L)				<0.000010	<0.000010	<0.0001
	Molybdenum (Mo)-Total (mg/L)				<0.000050	<0.000050	<0.0002
	Nickel (Ni)-Total (mg/L)				<0.00010	<0.00010	<0.002
	Phosphorus (P)-Total (mg/L)				<0.30	<0.30	<0.05
	Potassium (K)-Total (mg/L)				<0.050	<0.050	<0.1
	Selenium (Se)-Total (mg/L)				<0.00010	<0.00010	<0.001
	Silicon (Si)-Total (mg/L)				<0.050	<0.050	<0.3
	Silver (Ag)-Total (mg/L)				<0.000010	<0.000010	<0.0001
	Sodium (Na)-Total (mg/L)				<0.010	<0.010	<0.03
	Strontium (Sr)-Total (mg/L)				<0.00010	<0.00010	<0.0001
	Thallium (Tl)-Total (mg/L)				<0.000050	<0.000050	<0.0001
	Tin (Sn)-Total (mg/L)				<0.00010	<0.00010	<0.0006
	Titanium (Ti)-Total (mg/L)				<0.010	<0.010	<0.0009
	Uranium (U)-Total (mg/L)				<0.000010	<0.000010	<0.0001
	Vanadium (V)-Total (mg/L)				<0.000050	<0.000050	<0.001
Zinc (Zn)-Total (mg/L)				<0.0010	<0.0010	<0.01	
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0186	1.09				
	Antimony (Sb)-Dissolved (mg/L)	0.00137	0.000794				
	Arsenic (As)-Dissolved (mg/L)	0.000217	0.00320				
	Barium (Ba)-Dissolved (mg/L)	0.0849	0.0373				
	Beryllium (Be)-Dissolved (mg/L)	<0.00020	<0.00020				
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050				
	Boron (B)-Dissolved (mg/L)	0.379	0.168				
	Cadmium (Cd)-Dissolved (mg/L)	0.000053	0.000078				
	Calcium (Ca)-Dissolved (mg/L)	38.8	29.8				
	Chromium (Cr)-Dissolved (mg/L)	0.00064	0.00443				
	Cobalt (Co)-Dissolved (mg/L)	0.00041	0.00077				
	Copper (Cu)-Dissolved (mg/L)	0.00335	0.00457				
	Iron (Fe)-Dissolved (mg/L)	0.031	1.22				
	Lead (Pb)-Dissolved (mg/L)	0.00698	0.00156				
	Lithium (Li)-Dissolved (mg/L)	0.0483	0.0252				
	Magnesium (Mg)-Dissolved (mg/L)	29.8	28.5				
	Manganese (Mn)-Dissolved (mg/L)	0.0915	0.122				
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010				
	Molybdenum (Mo)-Dissolved (mg/L)	0.00953	0.00671				
	Nickel (Ni)-Dissolved (mg/L)	0.0107	0.00262				
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30				
	Potassium (K)-Dissolved (mg/L)	11.4	4.20				
	Selenium (Se)-Dissolved (mg/L)	0.00012	0.00150				

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L614153-1	L614153-2	L614153-3	L614153-4
		Description				
		Sampled Date	27-MAR-08	27-MAR-08		
		Sampled Time	08:30	10:00		
		Client ID	MW-GR-5	MW-SLS-5	FIELD BLANK	TRAVEL BLANK
Grouping	Analyte					
WATER						
Dissolved Metals	Silicon (Si)-Dissolved (mg/L)	4.12	11.1			
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010			
	Sodium (Na)-Dissolved (mg/L)	83.8	76.6			
	Strontium (Sr)-Dissolved (mg/L)	0.457	0.134			
	Thallium (Tl)-Dissolved (mg/L)	<0.000050	<0.000050			
	Tin (Sn)-Dissolved (mg/L)	0.00167	0.00148			
	Titanium (Ti)-Dissolved (mg/L)	<0.010	0.089			
	Uranium (U)-Dissolved (mg/L)	0.00137	0.00991			
	Vanadium (V)-Dissolved (mg/L)	0.000218	0.00355			
	Zinc (Zn)-Dissolved (mg/L)	0.178	0.0145			
Miscellaneous-No group	Dissolved Organic Carbon (mg/L)	2.39	3.56			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ACY-PCT-VA	Water	Acidity by Automatic Titration	APHA 2310 "Acidity"
This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.			
ALK-PCT-VA	Water	Alkalinity by Auto. Titration	APHA 2320 "Alkalinity"
This analysis is carried out using procedures adapted from APHA Method 2320 "Alkalinity". Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values.			
ANIONS-BR-IC-VA	Water	Bromide by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC"
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
CARBONS-DOC-VA	Water	Dissolved organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colormetric	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
FE-DIS-LOW-ICP-VA	Water	Dissolved Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
FE-TOT-LOW-ICP-VA	Water	Total Fe in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
<p>Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.</p>			
HG-DIS-LOW-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS(Low)	EPA SW-846 3005A & EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
HG-TOT-LOW-CVAFS-VA	Water	Total Mercury in Water by CVAFS(Low)	EPA 245.7
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-DIS-ULTRA-MS-VA	Water	Diss. Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-TOT-ULTRA-MS-VA	Water	Total Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
<p>This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p>			
TDS-VA	Water	Total Dissolved Solids by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.</p>			
TKN-COL-VA	Water	Total Kjeldahl Nitrogen by Auto. Colour	APHA 4500-Norg (TKN)
<p>This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 380 celcius with analysis using an automated colourimetric finish.</p>			
TKN-SIE-VA	Water	Total Kjeldahl Nitrogen by SIE	APHA 4500-Norg (TKN)
<p>This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 367 celcius with analysis using an ammonia selective electrode.</p>			
TN-CALC-VA	Water	TN by Calc (TKN + N+N)	BC MOE LABORATORY MANUAL (2005)
<p>Total Nitrogen is determined by calculation by suming TKN and the NO2 and NO3 results.</p>			
TSS-VA	Water	Solids by Gravimetric	APHA 2540 Gravimetric
<p>This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.</p>			
TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
<p>This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.</p>			
<p>** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:</p>			
Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

MINAGAO PROJECT
 Report To DR. DAVID MCHAINA, VICTORY NICKEL INC.
 ALS File No. L614153
 Date Received 28-Mar-08
 Date 11-Apr-08

REPLICATE RESULTS

Sample ID	Matrix	ALS ID	Analyte	Replicate 1	Replicate 2	Units	RPD	RPD Limit	Diff	Diff Limit	Qualifier
Physical Tests											
L614153-1	Water	WG748001-11	Total Dissolved Solids	413	409	mg/L	0.97	20	-	-	-
L614153-1	Water	WG748065-9	Total Suspended Solids	117	120	mg/L	2.1	25	-	-	-
L614153-1	Water	WG747539-32	Turbidity	89.8	89.0	NTU	0.89	39	-	-	-
Dissolved Metals											
L614153-1	Water	WG745160-6	Aluminum (Al)-Dissolved	0.0186	0.0198	mg/L	6.4	20	-	-	-
L614153-1	Water	WG745160-6	Antimony (Sb)-Dissolved	0.00137	0.00143	mg/L	4.6	20	-	-	-
L614153-1	Water	WG745160-6	Arsenic (As)-Dissolved	0.000217	0.000202	mg/L	-	-	0.000015	0.00012	J
L614153-1	Water	WG745160-6	Barium (Ba)-Dissolved	0.0849	0.0846	mg/L	0.36	20	-	-	-
L614153-1	Water	WG745160-6	Beryllium (Be)-Dissolved	<0.00020	<0.00020	mg/L	N/A	20	-	-	RPD-NA
L614153-1	Water	WG745160-6	Bismuth (Bi)-Dissolved	<0.00050	<0.00050	mg/L	N/A	20	-	-	RPD-NA
L614153-1	Water	WG745160-6	Boron (B)-Dissolved	0.379	0.386	mg/L	2.0	39	-	-	-
L614153-1	Water	WG745160-6	Cadmium (Cd)-Dissolved	0.000053	0.000054	mg/L	-	-	0.000001	0.000068	J
L614153-1	Water	WG745160-6	Calcium (Ca)-Dissolved	38.8	39.4	mg/L	1.3	20	-	-	-
L614153-1	Water	WG745160-6	Chromium (Cr)-Dissolved	0.00064	0.00069	mg/L	-	-	0.00004	0.0004	J
L614153-1	Water	WG745160-6	Cobalt (Co)-Dissolved	0.00041	0.00042	mg/L	-	-	0.00001	0.0004	J
L614153-1	Water	WG745160-6	Copper (Cu)-Dissolved	0.00335	0.00345	mg/L	3.1	20	-	-	-
L614153-1	Water	WG745160-6	Iron (Fe)-Dissolved	0.031	0.030	mg/L	-	-	0.001	0.04	J
L614153-1	Water	WG745160-6	Lead (Pb)-Dissolved	0.00698	0.00700	mg/L	0.36	20	-	-	-
L614153-1	Water	WG745160-6	Lithium (Li)-Dissolved	0.0483	0.0486	mg/L	-	-	0.0003	0.02	J
L614153-1	Water	WG745160-6	Magnesium (Mg)-Dissolved	29.8	30.1	mg/L	0.99	20	-	-	-
L614153-1	Water	WG745160-6	Manganese (Mn)-Dissolved	0.0915	0.0929	mg/L	1.5	20	-	-	-
L614153-1	Water	WG745160-6	Mercury (Hg)-Dissolved	<0.000010	<0.000010	mg/L	N/A	20	-	-	RPD-NA
L614153-1	Water	WG745160-6	Molybdenum (Mo)-Dissolved	0.00953	0.00950	mg/L	0.31	20	-	-	-
L614153-1	Water	WG745160-6	Nickel (Ni)-Dissolved	0.0107	0.0109	mg/L	2.3	39	-	-	-
L614153-1	Water	WG745160-6	Phosphorus (P)-Dissolved	<0.30	<0.30	mg/L	N/A	20	-	-	RPD-NA
L614153-1	Water	WG745160-6	Potassium (K)-Dissolved	11.4	11.5	mg/L	0.98	20	-	-	-
L614153-1	Water	WG745160-6	Selenium (Se)-Dissolved	0.00012	0.00019	mg/L	-	-	0.00007	0.0004	J
L614153-1	Water	WG745160-6	Silicon (Si)-Dissolved	4.12	4.13	mg/L	0.14	20	-	-	-
L614153-1	Water	WG745160-6	Silver (Ag)-Dissolved	<0.000010	<0.000010	mg/L	N/A	20	-	-	RPD-NA
L614153-1	Water	WG745160-6	Sodium (Na)-Dissolved	83.8	80.8	mg/L	3.7	39	-	-	-
L614153-1	Water	WG745160-6	Strontium (Sr)-Dissolved	0.457	0.459	mg/L	0.51	20	-	-	-
L614153-1	Water	WG745160-6	Thallium (Tl)-Dissolved	<0.000050	<0.000050	mg/L	N/A	20	-	-	RPD-NA
L614153-1	Water	WG745160-6	Tin (Sn)-Dissolved	0.00167	0.00171	mg/L	2.2	20	-	-	-
L614153-1	Water	WG745160-6	Titanium (Ti)-Dissolved	<0.010	<0.010	mg/L	N/A	20	-	-	RPD-NA
L614153-1	Water	WG745160-6	Uranium (U)-Dissolved	0.00137	0.00139	mg/L	1.2	20	-	-	-
L614153-1	Water	WG745160-6	Vanadium (V)-Dissolved	0.000218	0.000219	mg/L	-	-	0.000001	0.0002	J
L614153-1	Water	WG745160-6	Zinc (Zn)-Dissolved	0.178	0.180	mg/L	0.85	20	-	-	-
Anions and Nutrients											
L614153-2	Water	WG749119-8	Ammonia as N	0.134	0.131	mg/L	-	-	0.003	0.08	J
L614153-2	Water	WG746186-3	Bromide (Br)	<0.050	<5.0	mg/L	N/A	20	-	-	RPD-NA
L614153-2	Water	WG746186-3	Chloride (Cl)	27.5	<50	mg/L	N/A	20	-	-	RPD-NA
L614153-2	Water	WG746186-3	Fluoride (F)	0.337	<2.0	mg/L	N/A	20	-	-	RPD-NA
L614153-2	Water	WG746186-3	Sulfate (SO4)	105	5470	mg/L	0.035	20	-	-	-
L614153-2	Water	WG746186-3	Nitrate (as N)	1.53	1.63	mg/L	-	-	0.10	2	J
L614153-2	Water	WG746186-3	Nitrite (as N)	0.12	0.12	mg/L	-	-	0.00	0.4	J
L614153-2	Water	WG748055-4	Total Kjeldahl Nitrogen	13.0	12.1	mg/L	7.3	20	-	-	-
Cyanides											
L614153-2	Water	WG747074-3	Cyanide, Weak Acid Diss	<0.0050	<0.0050	mg/L	N/A	20	-	-	RPD-NA

Project MINAGAO PROJECT
 Report To DR. DAVID MCHAINA, VICTORY NICKEL INC.
 ALS File No.L614153
 Date Received 28-Mar-08
 Date 11-Apr-08

QUALITY CONTROL RESULTS

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Physical Tests										
Water	CRM	Acidity (as CaCO3)	WG747487-8	VA-ACY-CONTROL	50.6	50.0	mg/L	101	85-115	
Water	CRM	Conductivity	WG747487-9	VA-EC-PCT-CONTROL	152	147	uS/cm	104	90-110	
Water	CRM	Total Dissolved Solids	WG748001-5	VA-TDS-INFUS-425	411	425	mg/L	97	88-112	
Water	CRM	Total Dissolved Solids	WG748001-6	VA-TDS-INFUS-425	409	425	mg/L	96	88-112	
Water	CRM	Total Dissolved Solids	WG748001-7	VA-TDS-INFUS-425	404	425	mg/L	95	88-112	
Water	CRM	Total Dissolved Solids	WG748001-8	VA-TDS-INFUS-425	415	425	mg/L	98	88-112	
Water	CRM	Total Suspended Solids	WG748065-4	VA-TSS-INFUS-75	70.0	75.0	mg/L	93	80-120	
Water	CRM	Total Suspended Solids	WG748065-5	VA-TSS-INFUS-75	68.0	75.0	mg/L	91	80-120	
Water	CRM	Total Suspended Solids	WG748065-6	VA-TSS-INFUS-75	72.0	75.0	mg/L	96	80-120	
Water	CRM	pH	WG747487-10	VA-PH7-BUF	7.04	7.00	pH	7.04	6.97-7.03	
Water	CRM	Turbidity	WG747539-12	VA-TURB-SPK-8	8.12	8.00	NTU	102	85-115	
Water	CRM	Turbidity	WG747539-13	VA-TURB-SPK-8	8.13	8.00	NTU	102	85-115	
Water	CRM	Turbidity	WG747539-14	VA-TURB-SPK-8	7.93	8.00	NTU	99	85-115	
Water	CRM	Turbidity	WG747539-15	VA-TURB-SPK-8	8.10	8.00	NTU	101	85-115	
Water	CRM	Turbidity	WG747539-16	VA-TURB-SPK-8	8.24	8.00	NTU	103	85-115	
Water	CRM	Turbidity	WG747539-17	VA-TURB-SPK-8	8.19	8.00	NTU	102	85-115	
Water	CRM	Turbidity	WG747539-18	VA-TURB-SPK-8	8.24	8.00	NTU	103	85-115	
Water	CRM	Turbidity	WG747539-19	VA-TURB-SPK-8	8.19	8.00	NTU	102	85-115	
Water	CRM	Turbidity	WG747539-20	VA-TURB-SPK-8	8.08	8.00	NTU	101	85-115	
Water	CRM	Turbidity	WG747539-21	VA-TURB-SPK-8	8.09	8.00	NTU	101	85-115	
Water	CRM	Turbidity	WG747539-22	VA-TURB-SPK-8	8.07	8.00	NTU	101	85-115	
Water	MB	Conductivity	WG747487-1		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG747487-2		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG747487-3		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG747487-4		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG747487-5		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG747487-6		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG747487-7		<2.0	<2	uS/cm	-	2	
Water	MB	Turbidity	WG747539-1		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG747539-2		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG747539-3		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG747539-4		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG747539-5		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG747539-6		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG747539-7		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG747539-8		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG747539-9		<0.10	<0.1	NTU	-	0.1	
Water	MB	Total Dissolved Solids	WG748001-1		<10	<10	mg/L	-	10	
Water	MB	Total Dissolved Solids	WG748001-2		<10	<10	mg/L	-	10	
Water	MB	Total Dissolved Solids	WG748001-3		<10	<10	mg/L	-	10	
Water	MB	Total Dissolved Solids	WG748001-4		<10	<10	mg/L	-	10	
Water	MB	Total Suspended Solids	WG748065-1		<3.0	<3	mg/L	-	3	
Water	MB	Total Suspended Solids	WG748065-2		<3.0	<3	mg/L	-	3	
Water	MB	Total Suspended Solids	WG748065-3		<3.0	<3	mg/L	-	3	
Water	MB	Turbidity	WG747539-10		<0.10	<0.1	NTU	-	0.1	
Water	MB	Turbidity	WG747539-11		<0.10	<0.1	NTU	-	0.1	
Anions and Nutrients										
Water	CRM	Bromide (Br)	WG746186-2	VA-IC-IVA2-ION23110	0.924	0.999	mg/L	92	90-110	
Water	CRM	Chloride (Cl)	WG746186-2	VA-IC-IVA2-ION23110	51.8	50.2	mg/L	103	94-106	
Water	CRM	Fluoride (F)	WG746186-2	VA-IC-IVA2-ION23110	1.06	0.997	mg/L	107	93-107	
Water	CRM	Sulfate (SO4)	WG746186-2	VA-IC-IVA2-ION23110	52.2	50.2	mg/L	104	93-107	
Water	CRM	Nitrate (as N)	WG746186-2	VA-IC-IVA2-ION23110	0.241	0.251	mg/L	96	91-109	
Water	CRM	Nitrite (as N)	WG746186-2	VA-IC-IVA2-ION23110	0.145	0.150	mg/L	97	91-109	
Water	CRM	Bromide (Br)	WG746186-5	VA-IC-IVA2-ION23110	0.912	0.999	mg/L	91	90-110	
Water	CRM	Chloride (Cl)	WG746186-5	VA-IC-IVA2-ION23110	51.4	50.2	mg/L	102	94-106	
Water	CRM	Fluoride (F)	WG746186-5	VA-IC-IVA2-ION23110	1.06	0.997	mg/L	106	93-107	
Water	CRM	Sulfate (SO4)	WG746186-5	VA-IC-IVA2-ION23110	51.9	50.2	mg/L	103	93-107	
Water	CRM	Nitrate (as N)	WG746186-5	VA-IC-IVA2-ION23110	0.245	0.251	mg/L	98	91-109	
Water	CRM	Nitrite (as N)	WG746186-5	VA-IC-IVA2-ION23110	0.158	0.150	mg/L	105	91-109	
Water	CRM	Total Kjeldahl Nitrogen	WG746434-2	VA-TKN-CSPK1	1.03	1.00	mg/L	103	85-115	
Water	CRM	Total Kjeldahl Nitrogen	WG746434-3	VA-TKN-CSPK25	24.5	25.0	mg/L	98	85-115	
Water	CRM	Acidity (as CaCO3)	WG747487-8	VA-ACY-CONTROL	50.6	50.0	mg/L	101	85-115	
Water	CRM	Conductivity	WG747487-9	VA-EC-PCT-CONTROL	152	147	uS/cm	104	90-110	
Water	CRM	Total Kjeldahl Nitrogen	WG748055-2	VA-TKN-CSPK1	0.980	1.00	mg/L	98	85-115	
Water	CRM	Total Kjeldahl Nitrogen	WG748055-3	VA-TKN-CSPK25	24.5	25.0	mg/L	98	85-115	
Water	CRM	Alkalinity, Total (as CaCO3)	WG748337-1	VA-ALK-PCT-CONTROL	50.4	50.0	mg/L	101	88-112	
Water	CRM	Total Kjeldahl Nitrogen	WG748843-4	VA-TKN-CSPK1	1.12	1.00	mg/L	112	85-115	
Water	CRM	Total Kjeldahl Nitrogen	WG748843-5	VA-TKN-CSPK1	1.12	1.00	mg/L	112	85-115	
Water	CRM	Total Kjeldahl Nitrogen	WG748843-6	VA-TKN-CSPK1	1.10	1.00	mg/L	110	85-115	
Water	CRM	Ammonia as N	WG749119-5	VA-SPXNUT-22-16	4.05	3.84	mg/L	105	86-114	
Water	CRM	pH	WG747487-10	VA-PH7-BUF	7.04	7.00	pH	7.04	6.97-7.03	
Water	MB	Bromide (Br)	WG746186-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG746186-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG746186-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG746186-1		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG746186-1		<0.0050	<0.005	mg/L	-	0.005	

Project MINAGAO PROJECT
 Report To DR. DAVID MCHAINA, VICTORY NICKEL INC.
 ALS File No.L614153
 Date Received 28-Mar-08
 Date 11-Apr-08

QUALITY CONTROL RESULTS

Matrix	QC Type	Analyte	QC Spl. No.	Reference	Result	Target	Units	%	Limits	Qualifier
Water	MB	Nitrite (as N)	WG746186-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Bromide (Br)	WG746186-4		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Chloride (Cl)	WG746186-4		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Fluoride (F)	WG746186-4		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Sulfate (SO4)	WG746186-4		<0.50	<0.5	mg/L	-	0.5	
Water	MB	Nitrate (as N)	WG746186-4		<0.0050	<0.005	mg/L	-	0.005	
Water	MB	Nitrite (as N)	WG746186-4		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Total Kjeldahl Nitrogen	WG746434-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Conductivity	WG747487-1		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG747487-2		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG747487-3		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG747487-4		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG747487-5		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG747487-6		<2.0	<2	uS/cm	-	2	
Water	MB	Conductivity	WG747487-7		<2.0	<2	uS/cm	-	2	
Water	MB	Total Kjeldahl Nitrogen	WG748055-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Total Kjeldahl Nitrogen	WG748843-1		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Total Kjeldahl Nitrogen	WG748843-2		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Total Kjeldahl Nitrogen	WG748843-3		<0.050	<0.05	mg/L	-	0.05	
Water	MB	Ammonia as N	WG749119-1		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Ammonia as N	WG749119-2		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Ammonia as N	WG749119-3		<0.020	<0.02	mg/L	-	0.02	
Water	MB	Ammonia as N	WG749119-4		<0.020	<0.02	mg/L	-	0.02	
Cyanides										
Water	MB	Cyanide, Weak Acid Diss	WG747074-1		<0.0050	<0.005	mg/L	-	0.005	
Total Metals										
Water	CRM	Aluminum (Al)-Total	WG745137-5	VA-HIGH-WATRM	2.10	2.00	mg/L	105	90-110	
Water	CRM	Antimony (Sb)-Total	WG745137-5	VA-HIGH-WATRM	1.02	1.00	mg/L	102	90-110	
Water	CRM	Arsenic (As)-Total	WG745137-5	VA-HIGH-WATRM	1.03	1.00	mg/L	103	90-110	
Water	CRM	Barium (Ba)-Total	WG745137-5	VA-HIGH-WATRM	0.261	0.250	mg/L	104	90-110	
Water	CRM	Beryllium (Be)-Total	WG745137-5	VA-HIGH-WATRM	0.100	0.100	mg/L	100	90-110	
Water	CRM	Bismuth (Bi)-Total	WG745137-5	VA-HIGH-WATRM	0.885	1.00	mg/L	88	90-110	RM-L
Water	CRM	Boron (B)-Total	WG745137-5	VA-HIGH-WATRM	0.946	1.00	mg/L	95	85-115	
Water	CRM	Cadmium (Cd)-Total	WG745137-5	VA-HIGH-WATRM	0.0994	0.100	mg/L	99	90-110	
Water	CRM	Calcium (Ca)-Total	WG745137-5	VA-HIGH-WATRM	51.9	50.0	mg/L	104	85-115	
Water	CRM	Chromium (Cr)-Total	WG745137-5	VA-HIGH-WATRM	0.255	0.250	mg/L	102	90-110	
Water	CRM	Cobalt (Co)-Total	WG745137-5	VA-HIGH-WATRM	0.254	0.250	mg/L	101	90-110	
Water	CRM	Copper (Cu)-Total	WG745137-5	VA-HIGH-WATRM	0.249	0.250	mg/L	100	90-110	
Water	CRM	Lead (Pb)-Total	WG745137-5	VA-HIGH-WATRM	0.513	0.500	mg/L	103	90-110	
Water	CRM	Lithium (Li)-Total	WG745137-5	VA-HIGH-WATRM	0.23	0.25	mg/L	91	90-110	
Water	CRM	Magnesium (Mg)-Total	WG745137-5	VA-HIGH-WATRM	48.7	50.0	mg/L	97	85-115	
Water	CRM	Manganese (Mn)-Total	WG745137-5	VA-HIGH-WATRM	0.256	0.250	mg/L	102	90-110	
Water	CRM	Molybdenum (Mo)-Total	WG745137-5	VA-HIGH-WATRM	0.255	0.250	mg/L	102	90-110	
Water	CRM	Nickel (Ni)-Total	WG745137-5	VA-HIGH-WATRM	0.500	0.500	mg/L	100	90-110	
Water	CRM	Phosphorus (P)-Total	WG745137-5	VA-HIGH-WATRM	2.47	2.50	mg/L	99	90-110	
Water	CRM	Potassium (K)-Total	WG745137-5	VA-HIGH-WATRM	51.6	50.0	mg/L	103	85-115	
Water	CRM	Selenium (Se)-Total	WG745137-5	VA-HIGH-WATRM	1.04	1.00	mg/L	104	90-110	
Water	CRM	Silicon (Si)-Total	WG745137-5	VA-HIGH-WATRM	0.961	1.00	mg/L	96	90-110	
Water	CRM	Silver (Ag)-Total	WG745137-5	VA-HIGH-WATRM	0.102	0.100	mg/L	102	90-110	
Water	CRM	Sodium (Na)-Total	WG745137-5	VA-HIGH-WATRM	51.2	50.0	mg/L	102	85-115	
Water	CRM	Strontium (Sr)-Total	WG745137-5	VA-HIGH-WATRM	0.257	0.250	mg/L	103	90-110	
Water	CRM	Thallium (Tl)-Total	WG745137-5	VA-HIGH-WATRM	0.916	1.00	mg/L	92	85-115	
Water	CRM	Tin (Sn)-Total	WG745137-5	VA-HIGH-WATRM	0.530	0.500	mg/L	106	90-110	
Water	CRM	Titanium (Ti)-Total	WG745137-5	VA-HIGH-WATRM	0.253	0.250	mg/L	101	90-110	
Water	CRM	Uranium (U)-Total	WG745137-5	VA-HIGH-WATRM	0.00519	0.00500	mg/L	104	90-110	
Water	CRM	Vanadium (V)-Total	WG745137-5	VA-HIGH-WATRM	0.514	0.500	mg/L	103	90-110	
Water	CRM	Zinc (Zn)-Total	WG745137-5	VA-HIGH-WATRM	0.505	0.500	mg/L	101	85-115	
Water	CRM	Mercury (Hg)-Dissolved	WG746902-2	VA-HG-WATRM	0.000091	0.000100	mg/L	91	88-112	
Water	CRM	Mercury (Hg)-Total	WG746902-2	VA-HG-WATRM	0.000091	0.000100	mg/L	91	88-112	
Water	MB	Aluminum (Al)-Total	WG745137-1		<0.0010	<0.001	mg/L	-	0.001	
Water	MB	Antimony (Sb)-Total	WG745137-1		<0.000050	<0.00005	mg/L	-	0.00005	
Water	MB	Arsenic (As)-Total	WG745137-1		<0.000030	<0.00003	mg/L	-	0.00003	
Water	MB	Barium (Ba)-Total	WG745137-1		<0.000050	<0.00005	mg/L	-	0.00005	

APPENDIX L7.6-C

Certified Laboratory Reports for Groundwater Quality

August 2008 Results

(Results obtained during the Groundwater Pump Test)



Environmental Division

Certificate of Analysis

GOLDER ASSOCIATES LTD.
ATTN: MATTHEW NEUNER
500 - 4260 STILL CREEK DRIVE
BURNABY BC V5C 6C6

Reported On: 22-OCT-08 05:10 PM
Revision: 9

Lab Work Order #: **L672682**

Date Received: **21-AUG-08**

Project P.O. #:
Job Reference: 08-1428-0001-7000
Legal Site Desc:
CofC Numbers: 15225

Other Information:

Comments: October 22, 2008 - Total Metals data has been revised to provide lower detection limits than those reported originally. Data has been added for TSS and Dissolved Metals.

Amber Springer
Account Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L672682-1	L672682-2	L672682-3	L672682-4	L672682-5
		15-AUG-08	15-AUG-08	15-AUG-08	15-AUG-08	15-AUG-08
		15225-01	15225-02	15225-03	15225-04	15225-05
Grouping	Analyte					
WATER						
Physical Tests	Colour, True (CU)	7.9	<5.0	5.7	5.1	<5.0
	Conductivity (uS/cm)	606	683	610	633	684
	Hardness (as CaCO3) (mg/L)	242	167	287	257	165
	pH (pH)	8.05	8.17	8.04	8.05	8.18
	Total Suspended Solids (mg/L)	4.6	<3.0	<3.0	<3.0	<3.0
	Total Dissolved Solids (mg/L)	335	390	284	351	388
	Turbidity (NTU)	12.3	1.02	4.82	1.93	1.28
	Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	300	305	301	294
Ammonia as N (mg/L)		0.143	0.207	0.058	0.104	0.265
Chloride (Cl) (mg/L)		11.9	23.9	9.82	18.9	23.8
Fluoride (F) (mg/L)		0.301	0.698	0.244	0.401	0.689
Nitrate (as N) (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Nitrite (as N) (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Kjeldahl Nitrogen (mg/L)		0.163	0.189	0.094	0.139	0.224
Sulfate (SO4) (mg/L)		12.9	27.7	16.4	22.2	27.6
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	3.11	0.82	2.19	1.17	0.81
Total Metals	Aluminum (Al)-Total (mg/L)	0.108	0.0215	0.0360	0.0261	0.0217
	Antimony (Sb)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Arsenic (As)-Total (mg/L)	0.00294	0.00028	0.00230	0.00021	0.00027
	Barium (Ba)-Total (mg/L)	0.0694	0.0450	0.0760	0.0610	0.0445
	Beryllium (Be)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	0.177	0.401	0.110	0.197	0.391
	Cadmium (Cd)-Total (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017
	Calcium (Ca)-Total (mg/L)	45.7	32.0	56.3	51.5	31.6
	Chromium (Cr)-Total (mg/L)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Cobalt (Co)-Total (mg/L)	0.00029	<0.00010	0.00028	0.00019	<0.00010
	Copper (Cu)-Total (mg/L)	0.00077	0.00024	0.00077	0.00029	0.00022
	Iron (Fe)-Total (mg/L)	0.734	0.172	0.337	0.130	0.169
	Lead (Pb)-Total (mg/L)	0.000389	0.000329	0.000438	0.000733	0.000304
	Lithium (Li)-Total (mg/L)	0.0279	0.0455	0.0176	0.0286	0.0447
	Magnesium (Mg)-Total (mg/L)	31.1	21.1	35.5	31.2	21.0
	Manganese (Mn)-Total (mg/L)	0.00997	0.00833	0.00910	0.0120	0.00839
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.000393	0.00114	0.000542	0.00113	0.00112
	Nickel (Ni)-Total (mg/L)	0.00117	0.00013	0.00109	0.00101	0.00019
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30

ALS LABORATORY GROUP ANALYTICAL REPORT

Grouping	Analyte	Sample ID	Description	Sampled Date	Sampled Time	Client ID
		L672682-6		15-AUG-08		15225-06
WATER						
Physical Tests	Colour, True (CU)	5.6				
	Conductivity (uS/cm)	611				
	Hardness (as CaCO3) (mg/L)	271				
	pH (pH)	8.12				
	Total Suspended Solids (mg/L)	7.9				
	Total Dissolved Solids (mg/L)	344				
	Turbidity (NTU)	6.00				
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	318				
	Ammonia as N (mg/L)	0.060				
	Chloride (Cl) (mg/L)	9.82				
	Fluoride (F) (mg/L)	0.248				
	Nitrate (as N) (mg/L)	<0.0050				
	Nitrite (as N) (mg/L)	<0.0010				
	Total Kjeldahl Nitrogen (mg/L)	0.094				
	Sulfate (SO4) (mg/L)	16.4				
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050				
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	2.19				
Total Metals	Aluminum (Al)-Total (mg/L)	0.0349				
	Antimony (Sb)-Total (mg/L)	<0.000050				
	Arsenic (As)-Total (mg/L)	0.00218				
	Barium (Ba)-Total (mg/L)	0.0745				
	Beryllium (Be)-Total (mg/L)	<0.00020				
	Bismuth (Bi)-Total (mg/L)	<0.00050				
	Boron (B)-Total (mg/L)	0.0958				
	Cadmium (Cd)-Total (mg/L)	<0.000017				
	Calcium (Ca)-Total (mg/L)	53.3				
	Chromium (Cr)-Total (mg/L)	<0.0020				
	Cobalt (Co)-Total (mg/L)	0.00027				
	Copper (Cu)-Total (mg/L)	0.00078				
	Iron (Fe)-Total (mg/L)	0.356				
	Lead (Pb)-Total (mg/L)	0.000493				
	Lithium (Li)-Total (mg/L)	0.0156				
	Magnesium (Mg)-Total (mg/L)	33.5				
	Manganese (Mn)-Total (mg/L)	0.00882				
	Mercury (Hg)-Total (mg/L)	<0.000010				
	Molybdenum (Mo)-Total (mg/L)	0.000521				
	Nickel (Ni)-Total (mg/L)	0.00094				
	Phosphorus (P)-Total (mg/L)	<0.30				

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L672682-1	L672682-2	L672682-3	L672682-4	L672682-5
		15-AUG-08	15-AUG-08	15-AUG-08	15-AUG-08	15-AUG-08
		15225-01	15225-02	15225-03	15225-04	15225-05
Grouping	Analyte					
WATER						
Total Metals	Potassium (K)-Total (mg/L)	7.90	9.39	4.45	5.74	9.23
	Selenium (Se)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Silicon (Si)-Total (mg/L)	5.06	4.03	4.76	4.06	4.01
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	32.2	83.2	20.5	34.0	83.4
	Strontium (Sr)-Total (mg/L)	0.262	0.372	0.218	0.314	0.372
	Thallium (Tl)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	0.011	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/L)	0.000276	0.000188	0.000624	0.00105	0.000183
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)	0.0024	0.0486	0.0023	0.0037	0.0727
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	0.0344
	Antimony (Sb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Arsenic (As)-Dissolved (mg/L)	0.00110	0.000218	0.000988	0.000162	0.000227
	Barium (Ba)-Dissolved (mg/L)	0.0700	0.0473	0.0743	0.0631	0.0474
	Beryllium (Be)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	0.166	0.361	0.0986	0.171	0.347
	Cadmium (Cd)-Dissolved (mg/L)	<0.000017	<0.000017	<0.000017	<0.000017	<0.000017
	Calcium (Ca)-Dissolved (mg/L)	46.2	31.4	53.5	49.9	30.4
	Chromium (Cr)-Dissolved (mg/L)	<0.0020	0.00107	<0.0020	<0.0020	0.00092
	Cobalt (Co)-Dissolved (mg/L)	0.00016	<0.00010	<0.00010	0.00014	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00092	0.00021	0.00049	0.00055	0.00034
	Iron (Fe)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	0.000074
	Lithium (Li)-Dissolved (mg/L)	0.0265	0.0413	0.0163	0.0265	0.0405
	Magnesium (Mg)-Dissolved (mg/L)	31.7	20.4	33.6	29.7	19.9
	Manganese (Mn)-Dissolved (mg/L)	0.00815	0.00741	0.00489	0.0111	0.00734
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.000418	0.00112	0.000510	0.00108	0.00110
	Nickel (Ni)-Dissolved (mg/L)	0.00112	0.00033	0.00114	0.00120	<0.00010
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	8.03	9.17	4.18	5.48	8.84
	Selenium (Se)-Dissolved (mg/L)	0.00010	<0.00010	0.00013	0.00011	0.00012
	Silicon (Si)-Dissolved (mg/L)	5.08	4.24	5.04	4.33	4.25
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	33.8	85.0	20.6	34.4	86.9
	Strontium (Sr)-Dissolved (mg/L)	0.281	0.386	0.217	0.316	0.377

ALS LABORATORY GROUP ANALYTICAL REPORT

Grouping	Analyte	Sample ID	Description	Sampled Date	Sampled Time	Client ID
		L672682-6		15-AUG-08		15225-06
WATER						
Total Metals	Potassium (K)-Total (mg/L)	4.27				
	Selenium (Se)-Total (mg/L)	<0.0010				
	Silicon (Si)-Total (mg/L)	4.78				
	Silver (Ag)-Total (mg/L)	<0.000010				
	Sodium (Na)-Total (mg/L)	20.2				
	Strontium (Sr)-Total (mg/L)	0.218				
	Thallium (Tl)-Total (mg/L)	<0.000050				
	Tin (Sn)-Total (mg/L)	<0.00010				
	Titanium (Ti)-Total (mg/L)	<0.010				
	Uranium (U)-Total (mg/L)	0.000577				
	Vanadium (V)-Total (mg/L)	<0.0010				
	Zinc (Zn)-Total (mg/L)	0.0020				
Dissolved Metals	Aluminum (Al)-Dissolved (mg/L)	0.0215				
	Antimony (Sb)-Dissolved (mg/L)	<0.000050				
	Arsenic (As)-Dissolved (mg/L)	0.00122				
	Barium (Ba)-Dissolved (mg/L)	0.0542				
	Beryllium (Be)-Dissolved (mg/L)	<0.00020				
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050				
	Boron (B)-Dissolved (mg/L)	0.102				
	Cadmium (Cd)-Dissolved (mg/L)	<0.000017				
	Calcium (Ca)-Dissolved (mg/L)	23.9				
	Chromium (Cr)-Dissolved (mg/L)	<0.00070				
	Cobalt (Co)-Dissolved (mg/L)	<0.00010				
	Copper (Cu)-Dissolved (mg/L)	0.00033				
	Iron (Fe)-Dissolved (mg/L)	<0.010				
	Lead (Pb)-Dissolved (mg/L)	<0.000050				
	Lithium (Li)-Dissolved (mg/L)	0.0157				
	Magnesium (Mg)-Dissolved (mg/L)	32.1				
	Manganese (Mn)-Dissolved (mg/L)	0.000318				
	Mercury (Hg)-Dissolved (mg/L)	<0.000010				
	Molybdenum (Mo)-Dissolved (mg/L)	0.000525				
	Nickel (Ni)-Dissolved (mg/L)	0.00075				
	Phosphorus (P)-Dissolved (mg/L)	<0.30				
	Potassium (K)-Dissolved (mg/L)	4.36				
	Selenium (Se)-Dissolved (mg/L)	<0.0010				
	Silicon (Si)-Dissolved (mg/L)	5.04				
	Silver (Ag)-Dissolved (mg/L)	<0.000010				
	Sodium (Na)-Dissolved (mg/L)	22.3				
	Strontium (Sr)-Dissolved (mg/L)	0.191				

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L672682-1	L672682-2	L672682-3	L672682-4	L672682-5
		Description					
		Sampled Date	15-AUG-08	15-AUG-08	15-AUG-08	15-AUG-08	15-AUG-08
		Sampled Time					
		Client ID	15225-01	15225-02	15225-03	15225-04	15225-05
Grouping	Analyte						
WATER							
Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Tin (Sn)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)		0.000279	0.000168	0.000591	0.000996	0.000166
	Vanadium (V)-Dissolved (mg/L)		<0.0010	<0.000050	<0.0010	<0.0010	0.000082
	Zinc (Zn)-Dissolved (mg/L)		<0.0010	0.0127	0.0010	0.0038	0.0201

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample ID	L672682-6
Description	
Sampled Date	15-AUG-08
Sampled Time	
Client ID	15225-06

Grouping	Analyte
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WATER

Dissolved Metals	Thallium (Tl)-Dissolved (mg/L)	<0.000050
	Tin (Sn)-Dissolved (mg/L)	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010
	Uranium (U)-Dissolved (mg/L)	0.000542
	Vanadium (V)-Dissolved (mg/L)	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0026



500-4260 Still Creek Drive
 Burnaby, British Columbia, Canada V5C 6C6
 Telephone: 604-298-6623 Fax: 604-298-5253

CHAIN-OF-CUSTODY RECORD/ANALYSIS REQUEST

No 15225

Age of _____

Project Number: **08-1428-0001-7000**
 Short Title: **MINAGO PROJECT/VICTORY NICKEL PUMPING TEST**
 Laboratory Name: **ALS ENVIRONMENTAL**
 Address: **1988 TRIUMPH ST., VANCOUVER, BC**
 Golder Contact: **MATTHEW NEUNER**
 Golder E-mail Address: **MNEUNER@golder.com**
 Tel/Fax: **604-253-6708**
 Contact: **AMBER SPRINGER**

Office the final reports should be sent to:

500-4260 Still Creek Drive
 Burnaby, BC V5C 6C6
 Tel: 604-298-6623 Fax: 604-298-5253

2640 Douglas Street
 Victoria, BC V8T 4M1
 Tel: 250-881-7372 Fax: 250-881-7470

Sample Control Number (SCN)	Sample Location	Sa. #	Sample Depth (m)	Sample Matrix (over)	Date Sampled (D/M/Y)	Time Sampled (HH:MM)	Sample Type (over)	QAQC Code (over)	Related SCN (over)	Number of Containers	Analyses Required	Remarks (over)
15225-01	HG-3 LS	/	/	/	15/08	12:30	WATER			5	DRINKING WATER (no Alcohol) AMMONIA AS N CYANIDE (WHD) NITROGEN (TKN) TOT. Org. Carbon	
-02	HG-3 SS	/	/	/		12:30				5		
-03	HG-7 LS	/	/	/		14:00				5		
-04	HG-7 SS	/	/	/		14:00				5		
-05	HG-3 SS	/	/	/		12:30				5		
-06	HG-7 LS	/	/	/		14:00				5		
-07												
-08												
-09												
-10												
-11												NOT HAZARDOUS
-12												NO KNOWN CONTAMINANTS

Relinquished by: Signature *Matthew Neuner* Date: **15 Aug 08** Time: **16:45** Company: **GOLDER**

Relinquished by: Signature _____ Date: _____ Time: _____ Company: _____

Method of Shipment: _____

Shipped by: _____

Received for Lab by: _____ Date: _____

Temp (°C) _____ Cooler opened by: _____

Received by: Signature _____ Date: _____

Company: _____

Received by: Signature _____ Date: _____

Company: _____

L7.6-82

WHITE: Golder copy YELLOW: Lab copy PINK: Lab returns with Final Report

Reference Information

Additional Comments for Sample Listed:

Samplenum	Matrix	Report Remarks	Sample Comments
Methods Listed (if applicable):			
ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO2-IC-VA	Water	Nitrite by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-NO3-IC-VA	Water	Nitrate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 "Determination of Anions by IC
This analysis is carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Anions routinely determined by this method include: bromide, chloride, fluoride, nitrate, nitrite and sulphate.			
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 "TOTAL ORGANIC CARBON (TOC)"
This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".			
CN-WAD-MID-COL-VA	Water	Weak Acid Cyanide by Colormetric	APHA 4500-CN "Cyanide"
This analysis is carried out using procedures adapted from APHA Method 4500-CN "Cyanide". Weak acid dissociable (WAD) cyanide are determined by sample distillation and analysis using the chloramine-T colourimetric method.			
COLOUR-TRUE-VA	Water	Color (True) by Spectrometer	APHA 2120 "Color"
This analysis is carried out using procedures adapted from APHA Method 2120 "Color". Colour (True Colour) is determined by filtering a sample through a 0.45 micron membrane filter followed by analysis of the filtrate using the platinum-cobalt colourimetric method. Aparent Colour is determined without prior sample filtration. Colour is pH dependent. Unless otherwise indicated, reported colour results pertain to the pH of the sample as received, to within +/- 1 pH unit.			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
FE-DIS-LOW-ICP-VA	Water	Dissolved Fe in Water by ICPOES	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United			

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

FE-TOT-LOW-ICP-VA	Water	Total Fe in Water by ICPOES	EPA SW-846 3005A/6010B
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
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Hardness is calculated from Calcium and Magnesium concentrations, and is expressed as calcium carbonate equivalents.

HG-DIS-LOW-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS(Low)	EPA SW-846 3005A & EPA 245.7
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

HG-TOT-DW-CVAFS-VA	Water	Total Mercury in Water by CVAFS	EPA 245.7
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

HG-TOT-LOW-CVAFS-VA	Water	Total Mercury in Water by CVAFS(Low)	EPA 245.7
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

MET-DIS-LOW-MS-VA	Water	Dissolved Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

MET-DIS-ULTRA-MS-VA	Water	Diss. Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures involves preliminary sample treatment by filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

MET-TOT-DW-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves preliminary sample treatment by acid digestion, using either hotblock or

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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microwave oven (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

MET-TOT-DW-MS-VA	Water	Total Metals in Water by ICPMS	EPA SW-846 3005A/6020A
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

MET-TOT-LOW-MS-VA	Water	Total Metals in Water by ICPMS(Low)	EPA SW-846 3005A/6020A
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

MET-TOT-ULTRA-MS-VA	Water	Total Metals in Water by ICPMS (Ultra)	EPA SW-846 3005A/6020A
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This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

NH3-SIE-VA	Water	Ammonia by SIE	APHA 4500-NH3 "Nitrogen (Ammonia)"
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This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.

PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
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This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

TDS-VA	Water	Total Dissolved Solids by Gravimetric	APHA 2540 C - GRAVIMETRIC
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This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius.

TKN-SIE-VA	Water	Total Kjeldahl Nitrogen by SIE	APHA 4500-Norg (TKN)
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This analysis is carried out using procedures adapted from APHA Method 4500-Norg "Nitrogen (Organic)". Total kjeldahl nitrogen is determined by sample digestion at 367 celcius with analysis using an ammonia selective electrode.

TSS-VA	Water	Solids by Gravimetric	APHA 2540 D - GRAVIMETRIC
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This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.

TURBIDITY-VA	Water	Turbidity by Meter	APHA 2130 "Turbidity"
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This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:			
Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Environmental Division

ALS Laboratory Group Quality Control Report

Workorder: L672682

Report Date: 22-OCT-08

Page 1 of 12

Client: GOLDER ASSOCIATES LTD.
500 - 4260 STILL CREEK DRIVE
BURNABY BC V5C 6C6

Contact: MATTHEW NEUNER

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ALK-COL-VA		Water						
Batch	R715642							
WG825495-5	CRM	VA-ALKL-CONTROL						
Alkalinity, Total (as CaCO3)			99		%		85-115	27-AUG-08
WG825495-6	CRM	VA-ALKM-CONTROL						
Alkalinity, Total (as CaCO3)			101		%		85-115	27-AUG-08
WG825495-7	CRM	VA-ALKH-CONTROL						
Alkalinity, Total (as CaCO3)			100		%		88-112	27-AUG-08
WG825495-1	MB							
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	27-AUG-08
WG825495-3	MB							
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	27-AUG-08
WG825495-8	MB							
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	27-AUG-08
WG825495-9	MB							
Alkalinity, Total (as CaCO3)			<2.0		mg/L		2	27-AUG-08
ANIONS-CL-IC-VA		Water						
Batch	R715081							
WG824572-11	CRM	VA-IC-IVA2-ION23110						
Chloride (Cl)			99		%		94-106	27-AUG-08
WG824572-2	CRM	VA-IC-IVA2-ION23110						
Chloride (Cl)			99		%		94-106	27-AUG-08
WG824572-1	MB							
Chloride (Cl)			<0.50		mg/L		0.5	27-AUG-08
WG824572-10	MB							
Chloride (Cl)			<0.50		mg/L		0.5	27-AUG-08
WG824572-4	MB							
Chloride (Cl)			<0.50		mg/L		0.5	27-AUG-08
WG824572-6	MB							
Chloride (Cl)			<0.50		mg/L		0.5	27-AUG-08
WG824572-8	MB							
Chloride (Cl)			<0.50		mg/L		0.5	27-AUG-08
ANIONS-F-IC-VA		Water						
Batch	R715081							
WG824572-11	CRM	VA-IC-IVA2-ION23110						
Fluoride (F)			103		%		93-107	27-AUG-08
WG824572-2	CRM	VA-IC-IVA2-ION23110						
Fluoride (F)			101		%		93-107	27-AUG-08
WG824572-1	MB							
Fluoride (F)			<0.020		mg/L		0.02	27-AUG-08

ALS Laboratory Group Quality Control Report

Workorder: L672682

Report Date: 22-OCT-08

Page 2 of 12

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ANIONS-F-IC-VA		Water						
Batch	R715081							
WG824572-10	MB							
Fluoride (F)			<0.020		mg/L		0.02	27-AUG-08
WG824572-4	MB							
Fluoride (F)			<0.020		mg/L		0.02	27-AUG-08
WG824572-6	MB							
Fluoride (F)			<0.020		mg/L		0.02	27-AUG-08
WG824572-8	MB							
Fluoride (F)			<0.020		mg/L		0.02	27-AUG-08
ANIONS-NO2-IC-VA		Water						
Batch	R715081							
WG824572-11	CRM	VA-IC-IVA2-ION23110						
Nitrite (as N)			99		%		91-109	27-AUG-08
WG824572-2	CRM	VA-IC-IVA2-ION23110						
Nitrite (as N)			100		%		91-109	27-AUG-08
WG824572-1	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	27-AUG-08
WG824572-10	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	27-AUG-08
WG824572-4	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	27-AUG-08
WG824572-6	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	27-AUG-08
WG824572-8	MB							
Nitrite (as N)			<0.0010		mg/L		0.001	27-AUG-08
ANIONS-NO3-IC-VA		Water						
Batch	R715081							
WG824572-11	CRM	VA-IC-IVA2-ION23110						
Nitrate (as N)			102		%		91-109	27-AUG-08
WG824572-2	CRM	VA-IC-IVA2-ION23110						
Nitrate (as N)			102		%		91-109	27-AUG-08
WG824572-1	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	27-AUG-08
WG824572-10	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	27-AUG-08
WG824572-6	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	27-AUG-08
WG824572-8	MB							
Nitrate (as N)			<0.0050		mg/L		0.005	27-AUG-08

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ANIONS-SO4-IC-VA								
	Water							
Batch	R715081							
WG824572-11	CRM	VA-IC-IVA2-ION23110						
Sulfate (SO4)			100		%		93-107	27-AUG-08
WG824572-2	CRM	VA-IC-IVA2-ION23110						
Sulfate (SO4)			100		%		93-107	27-AUG-08
WG824572-1	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	27-AUG-08
WG824572-10	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	27-AUG-08
WG824572-4	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	27-AUG-08
WG824572-6	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	27-AUG-08
WG824572-8	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	27-AUG-08
CARBONS-TOC-VA								
	Water							
Batch	R714715							
WG825001-10	CRM	VA-TOC-C-CAFFEINE						
Total Organic Carbon			100		%		85-115	27-AUG-08
WG825001-2	CRM	VA-TOC-C-CAFFEINE						
Total Organic Carbon			105		%		85-115	27-AUG-08
WG825001-4	CRM	VA-TOC-C-CAFFEINE						
Total Organic Carbon			106		%		85-115	27-AUG-08
WG825001-6	CRM	VA-TOC-C-CAFFEINE						
Total Organic Carbon			106		%		85-115	27-AUG-08
WG825001-8	CRM	VA-TOC-C-CAFFEINE						
Total Organic Carbon			99		%		85-115	27-AUG-08
WG825001-1	MB							
Total Organic Carbon			<0.50		mg/L		0.5	27-AUG-08
WG825001-3	MB							
Total Organic Carbon			<0.50		mg/L		0.5	27-AUG-08
WG825001-5	MB							
Total Organic Carbon			<0.50		mg/L		0.5	27-AUG-08
WG825001-7	MB							
Total Organic Carbon			<0.50		mg/L		0.5	27-AUG-08
WG825001-9	MB							
Total Organic Carbon			<0.50		mg/L		0.5	27-AUG-08
CN-WAD-MID-COL-VA								
	Water							

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CN-WAD-MID-COL-VA								
	Water							
Batch	R714405							
WG824311-2	CRM	VA-WAD-CONTROL						
Cyanide, Weak Acid Diss			97		%		85-115	26-AUG-08
WG824311-1	MB							
Cyanide, Weak Acid Diss			<0.0050		mg/L		0.005	26-AUG-08
COLOUR-TRUE-VA								
	Water							
Batch	R714298							
WG824628-7	CRM	VA-COL-C-25						
Colour, True			100		%		85-115	26-AUG-08
WG824628-8	CRM	VA-COL-C-25						
Colour, True			114		%		85-115	26-AUG-08
WG824628-11	DUP	L672682-1						
Colour, True		7.9	7.8	J	CU	0.1	20	26-AUG-08
WG824628-1	MB							
Colour, True			<5.0		CU		5	26-AUG-08
WG824628-2	MB							
Colour, True			<5.0		CU		5	26-AUG-08
WG824628-3	MB							
Colour, True			<5.0		CU		5	26-AUG-08
WG824628-4	MB							
Colour, True			<5.0		CU		5	26-AUG-08
WG824628-5	MB							
Colour, True			<5.0		CU		5	26-AUG-08
WG824628-6	MB							
Colour, True			<5.0		CU		5	26-AUG-08
EC-PCT-VA								
	Water							
Batch	R715213							
WG825229-9	CRM	VA-EC-PCT-CONTROL						
Conductivity			96		%		90-110	28-AUG-08
WG825229-1	MB							
Conductivity			<2.0		uS/cm		2	28-AUG-08
WG825229-2	MB							
Conductivity			<2.0		uS/cm		2	28-AUG-08
WG825229-3	MB							
Conductivity			<2.0		uS/cm		2	28-AUG-08
WG825229-4	MB							
Conductivity			<2.0		uS/cm		2	28-AUG-08
WG825229-5	MB							
Conductivity			<2.0		uS/cm		2	28-AUG-08

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-PCT-VA								
	Water							
Batch	R715213							
WG825229-6	MB							
Conductivity			<2.0		uS/cm		2	28-AUG-08
WG825229-7	MB							
Conductivity			<2.0		uS/cm		2	28-AUG-08
FE-DIS-LOW-ICP-VA								
	Water							
Batch	R743974							
WG855210-5	CRM	VA-HIGH-WATRM						
Iron (Fe)-Dissolved			101		%		90-110	20-OCT-08
WG855210-1	MB							
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	20-OCT-08
HG-DIS-LOW-CVAFS-VA								
	Water							
Batch	R744227							
WG856267-2	CRM	VA-HG-WATRM						
Mercury (Hg)-Dissolved			97		%		88-112	20-OCT-08
WG856267-1	MB							
Mercury (Hg)-Dissolved			<0.000010		mg/L		0.00001	20-OCT-08
Batch	R745161							
WG855210-1	MB							
Mercury (Hg)-Dissolved			<0.000010		mg/L		0.00001	22-OCT-08
HG-TOT-LOW-CVAFS-VA								
	Water							
Batch	R715048							
WG824657-2	CRM	VA-HG-WATRM						
Mercury (Hg)-Total			105		%		88-112	27-AUG-08
WG824657-5	DUP	L672682-3						
Mercury (Hg)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	21-OCT-08
WG824657-1	MB							
Mercury (Hg)-Total			<0.000010		mg/L		0.00001	27-AUG-08
MET-DIS-ICP-VA								
	Water							
Batch	R743974							
WG855210-5	CRM	VA-HIGH-WATRM						
Phosphorus (P)-Dissolved			102		%		90-110	20-OCT-08
Silicon (Si)-Dissolved			106		%		90-110	20-OCT-08
Titanium (Ti)-Dissolved			103		%		90-110	20-OCT-08
WG855210-1	MB							
Phosphorus (P)-Dissolved			<0.30		mg/L		0.3	20-OCT-08
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	20-OCT-08

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-ICP-VA	Water							
Batch	R743974							
WG855210-1 MB								
Titanium (Ti)-Dissolved			<0.010		mg/L		0.01	20-OCT-08
MET-DIS-LOW-MS-VA	Water							
Batch	R744623							
WG855210-5 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Dissolved			104		%		90-110	21-OCT-08
Barium (Ba)-Dissolved			102		%		90-110	21-OCT-08
Bismuth (Bi)-Dissolved			96		%		90-110	21-OCT-08
Calcium (Ca)-Dissolved			103		%		85-115	21-OCT-08
Cobalt (Co)-Dissolved			101		%		90-110	21-OCT-08
Copper (Cu)-Dissolved			99		%		90-110	21-OCT-08
Lead (Pb)-Dissolved			100		%		90-110	21-OCT-08
Lithium (Li)-Dissolved			109		%		90-110	21-OCT-08
Magnesium (Mg)-Dissolved			105		%		85-115	21-OCT-08
Manganese (Mn)-Dissolved			102		%		90-110	21-OCT-08
Molybdenum (Mo)-Dissolved			103		%		90-110	21-OCT-08
Potassium (K)-Dissolved			103		%		85-115	21-OCT-08
Silver (Ag)-Dissolved			98		%		90-110	21-OCT-08
Strontium (Sr)-Dissolved			101		%		90-110	21-OCT-08
Tin (Sn)-Dissolved			101		%		90-110	21-OCT-08
Uranium (U)-Dissolved			100		%		90-110	21-OCT-08
Zinc (Zn)-Dissolved			102		%		85-115	21-OCT-08
WG855210-1 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	21-OCT-08
Barium (Ba)-Dissolved			<0.000050		mg/L		0.00005	21-OCT-08
Bismuth (Bi)-Dissolved			<0.00050		mg/L		0.0005	21-OCT-08
Calcium (Ca)-Dissolved			<0.020		mg/L		0.02	21-OCT-08
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	21-OCT-08
Copper (Cu)-Dissolved			<0.00010		mg/L		0.0001	21-OCT-08
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	21-OCT-08
Lithium (Li)-Dissolved			<0.0050		mg/L		0.005	21-OCT-08
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	21-OCT-08
Manganese (Mn)-Dissolved			<0.000050		mg/L		0.00005	21-OCT-08
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	21-OCT-08

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DIS-LOW-MS-VA		Water						
Batch	R744623							
WG855210-1	MB							
Potassium (K)-Dissolved			<0.050		mg/L		0.05	21-OCT-08
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	21-OCT-08
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	21-OCT-08
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	21-OCT-08
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	21-OCT-08
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	21-OCT-08
MET-DIS-ULTRA-MS-VA		Water						
Batch	R744623							
WG855210-5	CRM							
	VA-HIGH-WATRM							
Antimony (Sb)-Dissolved			101		%		90-110	21-OCT-08
Beryllium (Be)-Dissolved			108		%		90-110	21-OCT-08
Cadmium (Cd)-Dissolved			97		%		90-110	21-OCT-08
Chromium (Cr)-Dissolved			103		%		90-110	21-OCT-08
Selenium (Se)-Dissolved			103		%		90-110	21-OCT-08
Thallium (Tl)-Dissolved			96		%		85-115	21-OCT-08
Vanadium (V)-Dissolved			99		%		90-110	21-OCT-08
WG855210-1	MB							
Antimony (Sb)-Dissolved			<0.000050		mg/L		0.00005	21-OCT-08
Arsenic (As)-Dissolved			<0.000030		mg/L		0.00003	21-OCT-08
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	21-OCT-08
Boron (B)-Dissolved			<0.0010		mg/L		0.001	21-OCT-08
Cadmium (Cd)-Dissolved			<0.000017		mg/L		0.000017	21-OCT-08
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	21-OCT-08
Nickel (Ni)-Dissolved			<0.00010		mg/L		0.0001	21-OCT-08
Selenium (Se)-Dissolved			<0.00010		mg/L		0.0001	21-OCT-08
Sodium (Na)-Dissolved			<0.010		mg/L		0.01	21-OCT-08
Thallium (Tl)-Dissolved			<0.000050		mg/L		0.00005	21-OCT-08
Vanadium (V)-Dissolved			<0.000050		mg/L		0.00005	21-OCT-08
MET-TOT-DW-ICP-VA		Water						
Batch	R713836							
WG821758-3	CRM							
	VA-HIGH-WATRM							
Iron (Fe)-Total			98		%		90-110	25-AUG-08
Sodium (Na)-Total			95		%		85-115	25-AUG-08
WG821758-1	MB							

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TOT-DW-ICP-VA	Water							
Batch	R713836							
WG821758-1 MB								
Iron (Fe)-Total			<0.030		mg/L		0.03	25-AUG-08
Sodium (Na)-Total			<2.0		mg/L		2	25-AUG-08
MET-TOT-LOW-MS-VA	Water							
Batch	R712897							
WG821758-1 MB								
Aluminum (Al)-Total			<0.0010		mg/L		0.001	22-AUG-08
Barium (Ba)-Total			<0.000050		mg/L		0.00005	22-AUG-08
Bismuth (Bi)-Total			<0.00050		mg/L		0.0005	22-AUG-08
Calcium (Ca)-Total			<0.020		mg/L		0.02	22-AUG-08
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	22-AUG-08
Copper (Cu)-Total			<0.00010		mg/L		0.0001	22-AUG-08
Lead (Pb)-Total			<0.000050		mg/L		0.00005	22-AUG-08
Lithium (Li)-Total			<0.0050		mg/L		0.005	22-AUG-08
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	22-AUG-08
Manganese (Mn)-Total			<0.000050		mg/L		0.00005	22-AUG-08
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	22-AUG-08
Potassium (K)-Total			<0.050		mg/L		0.05	22-AUG-08
Silver (Ag)-Total			<0.000010		mg/L		0.00001	22-AUG-08
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	22-AUG-08
Tin (Sn)-Total			<0.00010		mg/L		0.0001	22-AUG-08
Uranium (U)-Total			<0.000010		mg/L		0.00001	22-AUG-08
Zinc (Zn)-Total			<0.0010		mg/L		0.001	22-AUG-08
Batch	R713432							
WG821758-3 CRM		VA-HIGH-WATRM						
Aluminum (Al)-Total			109		%		90-110	22-AUG-08
Barium (Ba)-Total			108		%		90-110	22-AUG-08
Bismuth (Bi)-Total			103		%		90-110	22-AUG-08
Calcium (Ca)-Total			107		%		85-115	22-AUG-08
Cobalt (Co)-Total			108		%		90-110	22-AUG-08
Copper (Cu)-Total			104		%		90-110	22-AUG-08
Lead (Pb)-Total			105		%		90-110	22-AUG-08
Lithium (Li)-Total			108		%		90-110	22-AUG-08
Magnesium (Mg)-Total			107		%		85-115	22-AUG-08
Manganese (Mn)-Total			107		%		90-110	22-AUG-08

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MET-TOT-LOW-MS-VA	Water							
Batch	R713432							
WG821758-3 CRM		VA-HIGH-WATRM						
Molybdenum (Mo)-Total			112	RM-H	%		90-110	22-AUG-08
Potassium (K)-Total			105		%		85-115	22-AUG-08
Silver (Ag)-Total			104		%		90-110	22-AUG-08
Strontium (Sr)-Total			108		%		90-110	22-AUG-08
Tin (Sn)-Total			108		%		90-110	22-AUG-08
Uranium (U)-Total			110		%		90-110	22-AUG-08
Zinc (Zn)-Total			105		%		85-115	22-AUG-08
NH3-SIE-VA	Water							
Batch	R713849							
WG824048-4 CRM		VA-NH3-SIE-2MG/L						
Ammonia as N			102		%		85-115	25-AUG-08
WG824048-1 MB								
Ammonia as N			<0.020		mg/L		0.02	25-AUG-08
WG824048-2 MB								
Ammonia as N			<0.020		mg/L		0.02	25-AUG-08
WG824048-3 MB								
Ammonia as N			<0.020		mg/L		0.02	25-AUG-08
PH-PCT-VA	Water							
Batch	R715213							
WG825229-10 CRM		VA-PH7-BUF						
pH			7.04		pH		6.9-7.1	28-AUG-08
TDS-VA	Water							
Batch	R714728							
WG824364-2 CRM		VA-TDS-INFUS-425						
Total Dissolved Solids			97		%		88-112	27-AUG-08
WG824364-4 CRM		VA-TDS-INFUS-425						
Total Dissolved Solids			96		%		88-112	27-AUG-08
WG824364-6 DUP		L672682-6						
Total Dissolved Solids		344	336		mg/L	2.4	20	27-AUG-08
WG824364-1 MB								
Total Dissolved Solids			<10		mg/L		10	27-AUG-08
WG824364-3 MB								
Total Dissolved Solids			<10		mg/L		10	27-AUG-08
TKN-SIE-VA	Water							

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TKN-SIE-VA		Water						
Batch	R714226							
WG824592-2	CRM	VA-TKN-CSPK1						
Total Kjeldahl Nitrogen			94		%		85-115	26-AUG-08
WG824592-3	CRM	VA-TKN-CSPK25						
Total Kjeldahl Nitrogen			98		%		85-115	26-AUG-08
WG824592-4	DUP	L672682-6						
Total Kjeldahl Nitrogen		0.094	0.083	J	mg/L	0.011	0.2	26-AUG-08
WG824592-1	MB							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	26-AUG-08
Batch	R715451							
WG826012-2	CRM	VA-TKN-CSPK1						
Total Kjeldahl Nitrogen			99		%		85-115	28-AUG-08
WG826012-3	CRM	VA-TKN-CSPK25						
Total Kjeldahl Nitrogen			98		%		85-115	28-AUG-08
WG826012-1	MB							
Total Kjeldahl Nitrogen			<0.050		mg/L		0.05	28-AUG-08
TSS-VA		Water						
Batch	R744255							
WG855191-10	CRM	VA-TSS-INFUS-75						
Total Suspended Solids			85		%		80-120	20-OCT-08
WG855191-12	CRM	VA-TSS-INFUS-75						
Total Suspended Solids			86		%		80-120	20-OCT-08
WG855191-2	CRM	VA-TSS-INFUS-75						
Total Suspended Solids			88		%		80-120	20-OCT-08
WG855191-4	CRM	VA-TSS-INFUS-75						
Total Suspended Solids			106		%		80-120	20-OCT-08
WG855191-6	CRM	VA-TSS-INFUS-75						
Total Suspended Solids			82		%		80-120	20-OCT-08
WG855191-8	CRM	VA-TSS-INFUS-75						
Total Suspended Solids			84		%		80-120	20-OCT-08
WG855191-1	MB							
Total Suspended Solids			<3.0		mg/L		3	20-OCT-08
WG855191-11	MB							
Total Suspended Solids			<3.0		mg/L		3	20-OCT-08
WG855191-3	MB							
Total Suspended Solids			<3.0		mg/L		3	20-OCT-08
WG855191-5	MB							
Total Suspended Solids			<3.0		mg/L		3	20-OCT-08
G855191-7	MB							

ALS Laboratory Group Quality Control Report

Workorder: L672682

Report Date: 22-OCT-08 Page 11 of 12

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TSS-VA		Water						
Batch	R744255							
WG855191-7	MB							
Total Suspended Solids			<3.0		mg/L		3	20-OCT-08
WG855191-9	MB							
Total Suspended Solids			<3.0		mg/L		3	20-OCT-08
TURBIDITY-VA		Water						
Batch	R714970							
WG825478-11	CRM	VA-TURB-SPK-8						
Turbidity			101		%		85-115	28-AUG-08
WG825478-2	CRM	VA-TURB-SPK-8						
Turbidity			101		%		85-115	27-AUG-08
WG825478-4	CRM	VA-TURB-SPK-8						
Turbidity			101		%		85-115	27-AUG-08
WG825478-6	CRM	VA-TURB-SPK-8						
Turbidity			99		%		85-115	27-AUG-08
WG825478-9	CRM	VA-TURB-SPK-8						
Turbidity			101		%		85-115	28-AUG-08
WG825478-7	DUP	L672682-1						
Turbidity		12.3	11.9		NTU	3.3	39	27-AUG-08
WG825478-1	MB							
Turbidity			<0.10		NTU		0.1	27-AUG-08
WG825478-10	MB							
Turbidity			<0.10		NTU		0.1	28-AUG-08
WG825478-3	MB							
Turbidity			<0.10		NTU		0.1	27-AUG-08
WG825478-5	MB							
Turbidity			<0.10		NTU		0.1	27-AUG-08
WG825478-8	MB							
Turbidity			<0.10		NTU		0.1	28-AUG-08

ALS Laboratory Group Quality Control Report

Workorder: L672682

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Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RM-H	Reference Material recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

APPENDIX L7.7

Certified Laboratory Reports for Benthos, Periphyton and Sediments

	Page
Appendix L7.7-A: 2006 Benthic Results (Sept. 2006)	L7.7-1
Appendix L7.7-B: 2007 Benthic Results (Aug. 2007)	L7.7-25
Appendix L7.7-C: 2008 Benthic Results (May 2008)	L7.7-29
Appendix L7.7-D: 2006-2008 Sediment Quality	L7.7-38
Appendix L7.7-D1: 2006 Results (Sept. 2006)	L7.7-39
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APPENDIX L7.7-A

**Certified Laboratory Reports for Benthos and Periphyton
2006 Results (Sept. 2006)**



Environmental Division

ANALYTICAL REPORT

WARDROP ENGINEERING
ATTN: ALISON REINEKE
400 386 BROADWAY AVENUE
WINNIPEG MB R3C 4M8

Reported On: 04-JAN-07 10:34 AM

Lab Work Order #: L435634

Date Received: 21-SEP-06

Project P.O. #:
Job Reference: 06513302-00 NUINSCO
Legal Site Desc:
CofC Numbers:

Other Information:

Comments: Ten percent of all samples are resorted by another analyst. BB-WP Jan 03/2007

APPROVED BY: _____

BARB BAYER
Project Manager

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

Manitoba Technology Centre Ltd.
Part of the **ALS Laboratory Group**

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A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L435634-1 OCW-1 REP 1 Sampled By: JM & SD on 19-SEP-06 @ 18:20 Matrix: BENTHOS Benthic Invertebrates	Entire Sample Sorted, See Attached		0		24-NOV-06	27-NOV-06	BJL	R469700
L435634-2 OCW-1 REP 2 Sampled By: JM & SD on 19-SEP-06 @ 18:20 Matrix: BENTHOS Benthic Invertebrates	Entire Sample Sorted, See Attached		0		24-NOV-06	27-NOV-06	BJL	R469700
L435634-3 OCW-1 REP 3 Sampled By: JM & SD on 19-SEP-06 @ 18:20 Matrix: BENTHOS Benthic Invertebrates	Entire Sample Sorted, See Attached		0		24-NOV-06	27-NOV-06	BJL	R469700
L435634-4 OCW-1 REP 4 Sampled By: JM & SD on 19-SEP-06 @ 18:20 Matrix: BENTHOS Benthic Invertebrates	Entire Sample Sorted, See Attached		0		24-NOV-06	27-NOV-06	BJL	R469700
L435634-5 OCW-1 REP 5 Sampled By: JM & SD on 19-SEP-06 @ 18:20 Matrix: BENTHOS Benthic Invertebrates	Entire Sample Sorted, See Attached		0		24-NOV-06	27-NOV-06	BJL	R469700
L435634-6 OCW-2A REP 1 Sampled By: JM & SD on 20-SEP-06 @ 11:40 Matrix: BENTHOS Benthic Invertebrates	Entire Sample Sorted, See Attached		0		24-NOV-06	27-NOV-06	BJL	R469700
L435634-7 OCW-2A REP 2 Sampled By: JM & SD on 20-SEP-06 @ 11:40 Matrix: BENTHOS Benthic Invertebrates	Entire Sample Sorted, See Attached		0		24-NOV-06	27-NOV-06	BJL	R469700
L435634-8 OCW-2A REP 3 Sampled By: JM & SD on 20-SEP-06 @ 11:40 Matrix: BENTHOS Benthic Invertebrates	Entire Sample Sorted, See Attached		0		24-NOV-06	27-NOV-06	BJL	R469700

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L435634-8 OCW-2A REP 3 Sampled By: JM & SD on 20-SEP-06 @ 11:40 Matrix: BENTHOS								
L435634-9 OCW-2A REP 4 Sampled By: JM & SD on 20-SEP-06 @ 11:40 Matrix: BENTHOS Benthic Invertebrates	Entire Sample Sorted, See Attached		0		24-NOV-06	27-NOV-06	BJL	R469700
L435634-10 OCW-2A REP 5 Sampled By: JM & SD on 20-SEP-06 @ 11:40 Matrix: BENTHOS Benthic Invertebrates	Entire Sample Sorted, See Attached		0		24-NOV-06	27-NOV-06	BJL	R469700
L435634-11 OCW-3A REP 1 Sampled By: JM & SD on 20-SEP-06 @ 14:00 Matrix: BENTHOS Benthic Invertebrates	Entire Sample Sorted, See Attached		0		24-NOV-06	27-NOV-06	BJL	R469700
L435634-12 OCW-3A REP 2 Sampled By: JM & SD on 20-SEP-06 @ 11:40 Matrix: BENTHOS Benthic Invertebrates	Entire Sample Sorted, See Attached		0		24-NOV-06	27-NOV-06	BJL	R469700
L435634-13 OCW-3A REP 3 Sampled By: JM & SD on 20-SEP-06 @ 11:40 Matrix: BENTHOS Benthic Invertebrates	Entire Sample Sorted, See Attached		0		24-NOV-06	27-NOV-06	BJL	R469700
L435634-14 OCW-3A REP 4 Sampled By: JM & SD on 20-SEP-06 @ 11:40 Matrix: BENTHOS Benthic Invertebrates	Entire Sample Sorted, See Attached		0		24-NOV-06	27-NOV-06	BJL	R469700
L435634-15 OCW-3A REP 5 Sampled By: JM & SD on 20-SEP-06 @ 11:40 Matrix: BENTHOS Benthic Invertebrates	Entire Sample Sorted, See Attached		0		24-NOV-06	27-NOV-06	BJL	R469700
* Refer to Referenced Information for Qualifiers (if any) and Methodology.								

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
BENTHOS-WP	Soil	Benthic Invertrbrates		STANDARD METHODS 10500

The benthic macroinvertebrates method is a procedure for identifying those organisms inhabiting the substrates of freshwater lakes and rivers. The organisms contained in large samples must be sorted to varying degrees in the laboratory before identification is performed. Samples are sorted and identified using compound and stereoscopic microscopes. Benthic organisms are identified to species where possible, enumerated and reported.

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WP	ALS LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA		

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency. The Laboratory control limits are determined under column heading D.L.

mg/kg (units) - unit of concentration based on mass, parts per million.

mg/L (units) - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



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Benthic Sample Results

Lab Number:	L435634-1	Work Order:	L435634					
Date Sampled	September 19, 2006	Submitter	JM & SD	Sample Type	BENTHOS	Station No		
Source:	06513302-00 NUINSCO	WQ Site #:		Sample ID	OCW-1 REP 1			
Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
ANNELIDA	OLIGOCHAETA	LUMBRICULIDAE			0	0	0	1
ANNELIDA	OLIGOCHAETA	TUBIFICIDAE			0	0	0	3
INSECTA	COLEOPTERA	ELMIDAE			6	0	0	6
INSECTA	COLEOPTERA	STAPHYLINIDAE			0	1	0	1
INSECTA	DIPTERA	CERATOPOGONIDAE			9	0	0	9
INSECTA	DIPTERA	CHIRONOMIDAE			16	0	0	16
INSECTA	DIPTERA	EMPIDIDAE			1	0	0	1
INSECTA	DIPTERA	TABANIDAE			1	0	0	1
INSECTA	EPHEMEROPTERA	CAENIDAE			11	0	0	11
INSECTA	EPHEMEROPTERA	EPHEMERIDAE			4	0	0	4
PELECYPODA	SPHAERIACEA	SPHAERIDAE			0	0	0	1

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*ALS Niakwa
Nov 28/2006*



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Benthic Sample Results

Lab Number: L435634-2

Work Order: L435634

Date Sampled: September 19, 2006
Source: 06513302-00 NUINSCO

Submitter: JM & SD
WQ Site #:

Sample Type: BENTHOS
Sample ID: OCW-1 REP 2
Station No:

Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
ANNELIDA	HIRUDINEA	ERPOBDELLIDAE			0	0	0	1
ANNELIDA	OLIGOCHAETA	NAIDIDAE			0	0	0	3
INSECTA	COLEOPTERA	ELMIDAE			8	0	0	8
INSECTA	DIPTERA		unidentified adult	terrestrial	0	1	0	1
INSECTA	DIPTERA	CERATOPOGONIDAE			7	0	0	7
INSECTA	DIPTERA	CHIRONOMIDAE			8	0	0	8
INSECTA	EPHEMEROPTERA	CAENIDAE			11	0	0	11
INSECTA	EPHEMEROPTERA	EPHEMERIDAE			12	0	0	12
INSECTA	TRICHOPTERA	LIMNEPHILIDAE			2	0	0	2
INSECTA	TRICHOPTERA	PHRYGANEIDAE			1	0	0	1
PELECYPODA	SPHAERIACEA	SPHAERIDAE			0	0	0	1

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A. Glowacka
Nov 18/2006



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Benthic Sample Results

Lab Number:	L435634-3	Work Order:	L435634					
Date Sampled	September 19, 2006	Submitter	JM & SD	Sample Type	BENTHOS	Station No		
Source:	06513302-00 NUINSCO	WQ Site #:		Sample ID	OCW-1 REP 3			
Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
ANNELIDA	OLIGOCHAETA	NAIDIDAE			0	0	0	4
INSECTA	COLEOPTERA	ELMIDAE			4	0	0	4
INSECTA	DIPTERA		unidentified adult	terrestrial	0	1	0	1
INSECTA	DIPTERA	CERATOPOGONIDAE			3	0	0	3
INSECTA	DIPTERA	CHIRONOMIDAE			5	0	0	5
INSECTA	EPHEMEROPTERA	EPHEMERIDAE			5	0	0	5
NEMATODA			unidentified		0	0	0	2

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Benthic Sample Results

Lab Number: L435634-4		Work Order: L435634							
Date Sampled	September 19, 2006	Submitter	JM & SD	Sample Type	BENTHOS	Station No			
Source:	06513302-00 NUINSCO	WQ Site #:		Sample ID	OCW-1 REP 4				
Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total	
ANNELIDA	HIRUDINEA	ERPOBDELLIDAE			0	0	0	1	
ANNELIDA	HIRUDINEA	GLOSSIPHONIDAE			0	0	0	1	
INSECTA	COLEOPTERA	ELMIDAE			12	0	0	12	
INSECTA	DIPTERA	CERATOPOGONIDAE			6	0	0	6	
INSECTA	DIPTERA	CHIRONOMIDAE			45	0	0	45	
INSECTA	EPHEMEROPTERA		unidentified	damaged	1	0	0	1	
INSECTA	EPHEMEROPTERA	CAENIDAE			2	0	0	2	
INSECTA	LEPIDOPTERA	PYRALIDAE			1	0	0	1	
INSECTA	TRICHOPTERA	HYDROPTILIDAE			7	0	0	7	
INSECTA	TRICHOPTERA	LIMNEPHILIDAE			1	0	0	1	
NEMATODA			unidentified		0	0	0	1	
PELECYPODA	SPHAERIACEA	SPHAERIDAE			0	0	0	8	

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Benthic Sample Results

Lab Number:	L435634-5	Work Order:	L435634					
Date Sampled	September 19, 2006	Submitter	JM & SD	Sample Type	BENTHOS	Station No		
Source:	06513302-00 NUINSCO	WQ Site #:		Sample ID	OCW-1 REP 5			
Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
ANNELIDA	HIRUDINEA	GLOSSIPHONIDAE			0	0	0	2
ANNELIDA	OLIGOCHAETA	LUMBRICULIDAE			0	0	0	4
ANNELIDA	OLIGOCHAETA	TUBIFICIDAE			0	0	0	4
INSECTA	COLEOPTERA	ELMIDAE			15	0	0	15
INSECTA	DIPTERA	CERATOPOGONIDAE			6	0	0	6
INSECTA	DIPTERA	CHIRONOMIDAE			15	0	0	15
INSECTA	EPHEMEROPTERA	CAENIDAE			3	0	0	3
INSECTA	EPHEMEROPTERA	EPHEMERIDAE			2	0	0	2
INSECTA	TRICHOPTERA	HYDROPTILIDAE			1	0	0	1
INSECTA	TRICHOPTERA	POLYCENTROPODIDAE			1	0	0	1
PELECYPODA	SPHAERIACEA	SPHAERIDAE			0	0	0	15

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S. J. J. J.
Nov 28 2006



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Benthic Sample Results

Lab Number: L435634-6

Work Order: L435634

Date Sampled September 20, 2006

Submitter JM & SD

Sample Type BENTHOS

Station No

Source: 06513302-00 NUINSCO

WQ Site #:

Sample ID OCW-2A REP 1

Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
ANNELIDA	HIRUDINEA	ERPOBDELLIDAE			0	0	0	1
ANNELIDA	HIRUDINEA	GLOSSIPHONIDAE			0	0	0	4
ANNELIDA	OLIGOCHAETA	LUMBRICULIDAE			0	0	0	4
ANNELIDA	OLIGOCHAETA	NAIDIDAE			0	0	0	11
ANNELIDA	OLIGOCHAETA	TUBIFICIDAE			0	0	0	7
ARACHNOIDEA	ARANEAE		<i>unidentified spider</i>		0	0	0	2
CRUSTACEA	AMPHIPODA	GAMMARIDAE			0	0	0	1
CRUSTACEA	AMPHIPODA	HYALELLIDAE			0	0	0	1
CRUSTACEA	COPEPODA				0	0	0	5
GASTROPODA	PULMONATA	LYMNAEIDAE			0	0	0	1
INSECTA	COLEOPTERA	HALIPLIDAE			1	0	0	1
INSECTA	DIPTERA	CERATOPOGONIDAE			15	0	0	15
INSECTA	DIPTERA	CHIRONOMIDAE			178	0	3	181
INSECTA	DIPTERA	EMPIDIDAE			1	0	0	1
INSECTA	DIPTERA	TABANIDAE			1	0	0	1

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Benthic Sample Results

Lab Number:	L435634-6	Work Order:	L435634					
Date Sampled	September 20, 2006	Submitter	JM & SD	Sample Type	BENTHOS	Station No		
Source:	06513302-00 NUINSCO	WQ Site #:		Sample ID	OCW-2A REP 1			
Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
INSECTA	EPHEMEROPTERA		unidentified	damaged	4	0	0	4
INSECTA	EPHEMEROPTERA	EPHEMERELLIDAE			9	0	0	9
INSECTA	EPHEMEROPTERA	LEPTOPHLEBIIDAE			4	0	0	4
INSECTA	HOMOPTERA		unidentified nymph		1	0	0	1
INSECTA	ODONATA-ANISOP	CORDULIIDAE			1	0	0	1
INSECTA	TRICHOPTERA	HYDROPTILIDAE			29	0	0	29
INSECTA	TRICHOPTERA	LEPTOCERIDAE			2	0	0	2
NEMATODA			unidentified		0	0	0	2
PELECYPODA	SPHAERIACEA	SPHAERIDAE			0	0	0	6

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*h. Niakwa
Nov 28/2006*



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Benthic Sample Results

Lab Number: L435634-7

Work Order: L435634

Date Sampled: September 20, 2006

Submitter: JM & SD

Sample Type: BENTHOS

Station No

Source: 06513302-00 NUINSCO

WQ Site #:

Sample ID: OCW-2A REP 2

Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
ANNELIDA	HIRUDINEA	GLOSSIPHONIDAE			0	0	0	1
ANNELIDA	OLIGOCHAETA	LUMBRICULIDAE			0	0	0	4
ANNELIDA	OLIGOCHAETA	NAIDIDAE			0	0	0	3
ANNELIDA	OLIGOCHAETA	TUBIFICIDAE			0	0	0	4
INSECTA	DIPTERA	CERATOPOGONIDAE			10	0	0	10
INSECTA	DIPTERA	CHIRONOMIDAE			11	0	0	11
INSECTA	DIPTERA	TIPULIDAE			1	0	0	1
INSECTA	EPHEMEROPTERA		unidentified	damaged	1	0	0	1
INSECTA	EPHEMEROPTERA	CAENIDAE			1	0	0	1
INSECTA	PLECOPTERA	CHLOROPERLIDAE			2	0	0	2
PELECYPODA	SPHAERIACEA	SPHAERIDAE			0	0	0	1

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*B. Glowacki
Nov 28/2006*



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Benthic Sample Results

Lab Number: L435634-8

Work Order: L435634

Date Sampled: September 20, 2006
Source: 06513302-00 NUINSCO

Submitter: JM & SD
WQ Site #:

Sample Type: BENTHOS
Sample ID: OCW-2A REP 3
Station No:

Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
ANNELIDA	HIRUDINEA	GLOSSIPHONIDAE			0	0	0	4
ANNELIDA	OLIGOCHAETA	LUMBRICULIDAE			0	0	0	2
ANNELIDA	OLIGOCHAETA	NAIDIDAE			0	0	0	3
ANNELIDA	OLIGOCHAETA	TUBIFICIDAE			0	0	0	14
ARACHNOIDEA	HYDRACARINA		unidentified	(on Corixidae)	0	0	0	2
CRUSTACEA	COPEPODA				0	0	0	1
INSECTA	COLEOPTERA	HALIPLIDAE			1	0	0	1
INSECTA	DIPTERA	CERATOPOGONIDAE			24	0	0	24
INSECTA	DIPTERA	CHIRONOMIDAE			282	0	0	282
INSECTA	EPHEMEROPTERA		unidentified	damaged	5	0	0	5
INSECTA	EPHEMEROPTERA	CAENIDAE			3	0	0	3
INSECTA	EPHEMEROPTERA	EPHEMERELLIDAE			1	0	0	1
INSECTA	EPHEMEROPTERA	LEPTOPHLEBIIDAE			1	0	0	1
INSECTA	TRICHOPTERA	HYDROPTILIDAE			25	0	0	25
INSECTA	TRICHOPTERA	PHRYGANEIDAE			2	0	0	2

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Benthic Sample Results

Lab Number:	L435634-8	Work Order:	L435634					
Date Sampled	September 20, 2006	Submitter	JM & SD	Sample Type	BENTHOS	Station No		
Source:	06513302-00 NUINSCO	WQ Site #:		Sample ID	OCW-2A REP 3			
Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
NEMATODA			unidentified		0	0	0	3
PELECYPODA	SPHAERIACEA	SPHAERIDAE			0	0	0	4

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Benthic Sample Results

Lab Number:	L435634-9	Work Order:	L435634					
Date Sampled	September 20, 2006	Submitter	JM & SD	Sample Type	BENTHOS	Station No		
Source:	06513302-00 NUINSCO	WQ Site #:		Sample ID	OCW-2A REP 4			
Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
ANNELIDA	HIRUDINEA	ERPOBDELLIDAE			0	0	0	2
ANNELIDA	HIRUDINEA	GLOSSIPHONIDAE			0	0	0	6
ANNELIDA	OLIGOCHAETA	LUMBRICULIDAE			0	0	0	7
ANNELIDA	OLIGOCHAETA	NAIDIDAE			0	0	0	1
ANNELIDA	OLIGOCHAETA	TUBIFICIDAE			0	0	0	2
CRUSTACEA	COPEPODA				0	0	0	2
INSECTA	DIPTERA	CERATOPOGONIDAE			38	0	0	38
INSECTA	DIPTERA	CHIRONOMIDAE			137	0	0	137
INSECTA	DIPTERA	EMPIDIDAE			1	0	0	1
INSECTA	DIPTERA	TIPULIDAE			1	0	0	1
INSECTA	EPHEMEROPTERA	CAENIDAE			1	0	0	1
INSECTA	EPHEMEROPTERA	HEPTAGENIIDAE			1	0	0	1
INSECTA	PLECOPTERA	CHLOROPERLIDAE			2	0	0	2
INSECTA	TRICHOPTERA	HYDROPTILIDAE			3	0	0	3
NEMATODA			unidentified		0	0	0	24

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Benthic Sample Results

Lab Number:	L435634-9	Work Order:	L435634					
Date Sampled	September 20, 2006	Submitter	JM & SD	Sample Type	BENTHOS	Station No		
Source:	06513302-00 NUINSCO	WQ Site #:		Sample ID	OCW-2A REP 4			
Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
<i>PELECYPODA</i>	<i>SPHAERLACEA</i>	<i>SPHAERIDAE</i>			0	0	0	3

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Benthic Sample Results

Lab Number: **L435634-10**

Work Order: **L435634**

Date Sampled: September 20, 2006

Submitter: JM & SD

Sample Type: BENTHOS

Station No

Source: 06513302-00 NUINSCO

WQ Site #:

Sample ID: OCW-2A REP 5

Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
ANNELIDA	HIRUDINEA	ERPOBDELLIDAE			0	0	0	3
ANNELIDA	OLIGOCHAETA	LUMBRICULIDAE			0	0	0	3
ANNELIDA	OLIGOCHAETA	NAIDIDAE			0	0	0	3
ANNELIDA	OLIGOCHAETA	TUBIFICIDAE			0	0	0	34
CRUSTACEA	AMPHIPODA	GAMMARIDAE			0	0	0	1
GASTROPODA	CTENOBRANCHIAT	VALVATIDAE			0	0	0	1
GASTROPODA	PULMONATA	ANCYLIDAE			0	0	0	2
INSECTA	DIPTERA		unidentified adult	terrestrial	0	1	0	1
INSECTA	DIPTERA	CERATOPOGONIDAE			6	0	0	6
INSECTA	DIPTERA	CHIRONOMIDAE			103	0	0	103
INSECTA	ODONATA-ANISOP	CORDULIIDAE			1	0	0	1
INSECTA	TRICHOPTERA		unidentified larva	damaged	1	0	0	1
INSECTA	TRICHOPTERA	LIMNephilidae			1	0	0	1
PELECYPODA	SPHAERIACEA	SPHAERIDAE			0	0	0	12

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*B. C. Mowbray
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Benthic Sample Results

Lab Number:	L435634-11	Work Order:	L435634					
Date Sampled	September 20, 2006	Submitter	JM & SD	Sample Type	BENTHOS	Station No		
Source:	06513302-00 NUINSCO	WQ Site #:		Sample ID	OCW-3A REP 1			
Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
ANNELIDA	HIRUDINEA	GLOSSIPHONIDAE			0	0	0	3
ANNELIDA	OLIGOCHAETA	LUMBRICULIDAE			0	0	0	4
ANNELIDA	OLIGOCHAETA	TUBIFICIDAE			0	0	0	3
CRUSTACEA	AMPHIPODA	GAMMARIDAE			0	0	0	2
CRUSTACEA	COPEPODA				0	0	0	3
GASTROPODA	PULMONATA	ANCYLIDAE			0	0	0	1
INSECTA	DIPTERA	CERATOPOGONIDAE			10	0	0	10
INSECTA	DIPTERA	CHIRONOMIDAE			24	0	0	24
INSECTA	EPHEMEROPTERA		unidentified	damaged	1	0	0	1
INSECTA	EPHEMEROPTERA	EPHEMERELLIDAE			1	0	0	1
INSECTA	EPHEMEROPTERA	LEPTOPHLEBIIDAE			4	0	0	4
INSECTA	ODONATA-ANISOP	CORDULIIDAE			1	0	0	1
INSECTA	TRICHOPTERA	HYDROPTILIDAE			2	0	0	2
PELECYPODA	SPHAERIACEA	SPHAERIDAE			0	0	0	5

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Benthic Sample Results

Lab Number: **L435634-12** Work Order: **L435634**

Date Sampled: September 20, 2006 Submitter: JM & SD Sample Type: BENTHOS Station No:
Source: 06513302-00 NUINSCO WQ Site #: Sample ID: OCW-3A REP 2

Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
ANNELIDA	OLIGOCHAETA	LUMBRICULIDAE			0	0	0	6
ANNELIDA	OLIGOCHAETA	TUBIFICIDAE			0	0	0	26
INSECTA	DIPTERA	CERATOPOGONIDAE			18	0	0	18
INSECTA	DIPTERA	CHIRONOMIDAE			5	0	0	5
INSECTA	HEMIPTERA	CORIXIDAE			0	1	0	1
PELECYPODA	SPHAERLACEA	SPHAERIDAE			0	0	0	32

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Benthic Sample Results

Lab Number: **L435634-13**

Work Order: **L435634**

Date Sampled: September 20, 2006
Source: 06513302-00 NUINSCO

Submitter: JM & SD
WQ Site #:

Sample Type: BENTHOS
Sample ID: OCW-3A REP 3

Station No

Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
ANNELIDA	OLIGOCHAETA	LUMBRICULIDAE			0	0	0	1
ANNELIDA	OLIGOCHAETA	NAIDIDAE			0	0	0	1
ANNELIDA	OLIGOCHAETA	TUBIFICIDAE			0	0	0	8
CRUSTACEA	COPEPODA				0	0	0	1
INSECTA	COLEOPTERA	HYDRAENIDAE			0	1	0	1
INSECTA	DIPTERA	CERATOPOGONIDAE			13	0	0	13
INSECTA	DIPTERA	CHIRONOMIDAE			94	0	1	95
INSECTA	DIPTERA	TABANIDAE			1	0	0	1
INSECTA	EPHEMEROPTERA	EPHEMERELLIDAE			1	0	0	1
INSECTA	HEMIPTERA	CORIXIDAE			0	12	0	12
INSECTA	TRICHOPTERA	MOLANNIDAE			1	0	0	1
PELECYPODA	SPHAERIACEA	SPHAERIDAE			0	0	0	17

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Benthic Sample Results

Lab Number: **L435634-14** Work Order: **L435634**
 Date Sampled: September 20, 2006 Submitter: JM & SD Sample Type: BENTHOS Station No:
 Source: 06513302-00 NUINSCO WQ Site #: Sample ID: OCW-3A REP 4

Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
ANNELIDA	HIRUDINEA	GLOSSIPHONIDAE			0	0	0	3
ANNELIDA	OLIGOCHAETA	LUMBRICULIDAE			0	0	0	4
ANNELIDA	OLIGOCHAETA	TUBIFICIDAE			0	0	0	1
CRUSTACEA	AMPHIPODA	GAMMARIDAE			0	0	0	4
CRUSTACEA	AMPHIPODA	HYALELLIDAE			0	0	0	2
CRUSTACEA	COPEPODA				0	0	0	3
INSECTA	DIPTERA	CERATOPOGONIDAE			25	0	0	25
INSECTA	DIPTERA	CHIRONOMIDAE			33	0	1	34
INSECTA	DIPTERA	TABANIDAE			1	0	0	1
INSECTA	EPHEMEROPTERA		<i>unidentified</i>	<i>damaged</i>	4	0	0	4
INSECTA	EPHEMEROPTERA	EPHEMERELLIDAE			4	0	0	4
INSECTA	EPHEMEROPTERA	LEPTOPHLEBIIDAE			7	0	0	7
INSECTA	PLECOPTERA	CAPNIIDAE			1	0	0	1
INSECTA	TRICHOPTERA	HYDROPTILIDAE			1	0	0	1
INSECTA	TRICHOPTERA	LEPIDOSTOMATIDAE			2	0	0	2

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Benthic Sample Results

Lab Number:	L435634-14	Work Order:	L435634					
Date Sampled	September 20, 2006	Submitter	JM & SD	Sample Type	BENTHOS	Station No		
Source:	06513302-00 NUINSCO	WQ Site #:		Sample ID	OCW-3A REP 4			
Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
<i>NEMATODA</i>			<i>unidentified</i>		0	0	0	11
<i>PELECYPODA</i>	<i>SPHAERIACEA</i>	<i>SPHAERIDAE</i>			0	0	0	8

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S. Howaoka
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Benthic Sample Results

Lab Number: L435634-15

Work Order: L435634

Date Sampled: September 20, 2006
Source: 06513302-00 NUINSCO

Submitter: JM & SD
WQ Site #:

Sample Type: BENTHOS
Sample ID: OCW-3A REP 5

Station No

Class	Order	Family/Suborder	Genus	Species	Larva	Adult	Pupa	Total
ANNELIDA	OLIGOCHAETA	TUBIFICIDAE			0	0	0	2
INSECTA	COLEOPTERA	HALIPLIDAE			1	0	0	1
INSECTA	DIPTERA	CERATOPOGONIDAE			10	0	0	10
INSECTA	DIPTERA	CHIRONOMIDAE			6	0	0	6
INSECTA	EPHEMEROPTERA	EPHEMERELLIDAE			1	0	0	1

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*to flow data
Nov 18/2006*

APPENDIX L7.7-B

Certified Laboratory Reports for Benthos and Periphyton

2007 Results

IRC BENTHIC INVERTEBRATE TAXONOMY DATA
 SEDIMENT AND BENTHIC ASSESSMENT
 ENVIRONMENTAL BASELINE STUDIES
 MINAGO PROJECT

IRC 07b Grand Rapids benthos	OCW1	OCW1	OCW1	OCW2	OCW2	OCW2	OCW3	OCW3	OCW3	WRW1	WRW1	WRW1	WRW2	WRW2	WRW2	MRW1	MRW1	MRW1	MRW2	MRW2	MRW2	MRW3	MRW3	MRW3	HRW1	HRW1	HRW1
TAXA	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
Petite Ponar sampler	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	0.02m ²	
Fines split to (counts adjusted):																											
Sample size:	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	2L	
INSECTA																											
Insecta Larva dam																											
Ephemeroptera - mayflies																											
<i>Baetis</i> sp												2		2	2		1	2	9	3	1	3	31	32			
<i>Caenis</i> sp	10	3												1		1			9		1		1	3			
<i>Ephemera</i> sp																											
Ephemerellidae Juv				2			1																				
<i>Hexagenia</i> sp										30	10	15	25	16	19	2									3	3	
<i>Paraleptophlebia</i> sp							16	3	10					1		1							1	2			
Odonata - dragonflies																											
Anisoptera Unid dam																										1	
<i>Somatochlora minor</i>									1																		
<i>Ophiogomphus</i> sp										1																	
Zygoptera Juv												1															
Plecoptera - stoneflies																											
<i>Leuctra</i> sp																											
Trichoptera - caddisflies																											
<i>Hydroptila</i> sp	10		1			1			2	5																	
<i>Nemotaulius</i> sp																								2			
<i>Oecetis</i> sp	5	1	1				2	1	4									1	1	2	1						
<i>Phyllocentropus</i> sp											1		3	5	2										4	3	
<i>Psychomyia</i> sp	1																				1						
Rhyacophilidae Juv									1																		
Diptera - true flies																											
Diptera Unid Adult																									1		
Diptera Unid Larva																										1	
Ceratopogonidae																											
<i>Bezzia</i> sp						1																					
<i>Culicoides</i> sp				1		1						1														1	
<i>Mallochohelea</i> sp	3		1	3	4	14	9	4	7	2	1	5	1		2	3			1					1	2	1	
Chironomidae																											
Chironomidae Adult	1																										
Chironomidae Pupa	5			3	2	7			1	2						1								1	3		
Chironomidae Larva				20	17	47	112	42	72	3	5	8						2	1	2	5	3	5	3	3	3	
Chironomini Juv				1	2	1						2															
<i>Cardiocladius</i> sp	1			1								1	1													1	
<i>Corynoneura</i> sp						1	6	5	2																	1	
<i>Cricotopus</i> sp	1		3	13	8	8	6	1	8	1	5	2		3	3	1		2	1	2	1	1	42	5	8	1	
<i>Cryptochironomus</i> sp						1	3	1	3										1	2	1				1	1	4
<i>Eukiefferiella</i> sp							1		4																2	4	
<i>Phaenopsectra</i> sp			2	12	16	26	20	14	33	1	6				3	1		2	1	2			6	8	5	3	
<i>Procladius</i> sp	1						2					1		1					4	4			1	1			
<i>Rheotanytarsus</i> sp	14	4	7	28	20	116	19	10	14	2	3	1		1		4		3	3	3			14	18			
<i>Stempellinella</i> sp						1																					
<i>Synorthocladius</i> sp														4	4												
<i>Thienemanniella</i> sp									1											2		2	2				
<i>Thienemannimyia</i> sp	1		2	1	1	3	9	9	18	1	2	1	1	1	1			1	7	2	10		4	2	1		

IRC BENTHIC INVERTEBRATE TAXONOMY DATA
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 ENVIRONMENTAL BASELINE STUDIES
 MINAGO PROJECT

IRC 07b Grand Rapids benthos	OCW1	OCW1	OCW1	OCW2	OCW2	OCW2	OCW3	OCW3	OCW3	WRW1	WRW1	WRW1	WRW2	WRW2	WRW2	MRW1	MRW1	MRW1	MRW2	MRW2	MRW2	MRW3	MRW3	MRW3	HRW1	HRW1	HRW1	
TAXA	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	
Empididae																												
<i>Chelifera</i> sp							1																					
Simuliidae																												
<i>Simulium</i> sp							2																					
Tabanidae																												
<i>Chrysops</i> sp				2	5	3								1		1												
Tipulidae Unid dam				1																								
<i>Gonomyia</i> sp					1																							
<i>Ormosia</i> sp																										1		
Coleoptera - beetles																												
Coleoptera Unid Larva							1																					
Dytiscidae																												
<i>Hydaticus</i> sp Adult																										1		
cf <i>Neobidessus</i> sp Adult																								1	2			
Elmidae																												
<i>Dubiraphia</i> sp Larva																1	1											
<i>Optioservus</i> sp Larva															1													
<i>Rhizelmis</i> sp Larva	2	1	1				1						1	1									1					
Collembola - springtails Unid																												
Hemiptera																												
Corixidae Unid Nymph																		1										
Homoptera (Terr) - cicadas, hoppers, aphids, whiteflies & scale insects																												
Aphididae																											1	
Cicadellidae							2	1				1																
Phylloxeridae Nymph			1				1																					
Lepidoptera - butterflies & moths Larva																												
Megaloptera - fishflies, dobsonflies and alderflies																												
<i>Sialis</i> sp																											1	
Thysanoptera (Terr) - thrips																												
ARACHNIDA - spiders																												
Araneae (Terr)						1										1										1	1	
ACARINA - mites and ticks																												
Hydracarina Juv							1						3												1	1		
<i>Lebertia</i> sp							1																				1	
<i>Sperchon</i> sp																												
Oribatei (Terr)						1						1															4	
Chilopoda																											1	
CRUSTACEA - crustaceans																												
Amphipoda - sideswimmers or scuds																												
<i>Gammarus lacustris</i>																											17	
<i>Hyaella azteca</i>	2		3			1	1								2				2		6	1	91	3	5	6	44	18

IRC BENTHIC INVERTEBRATE TAXONOMY DATA
 SEDIMENT AND BENTHIC ASSESSMENT
 ENVIRONMENTAL BASELINE STUDIES
 MINAGO PROJECT

IRC 07b Grand Rapids benthos TAXA	OCW1 R1	OCW1 R2	OCW1 R3	OCW2 R1	OCW2 R2	OCW2 R3	OCW3 R1	OCW3 R2	OCW3 R3	WRW1 R1	WRW1 R2	WRW1 R3	WRW2 R1	WRW2 R2	WRW2 R3	MRW1 R1	MRW1 R2	MRW1 R3	MRW2 R1	MRW2 R2	MRW2 R3	MRW3 R1	MRW3 R2	MRW3 R3	HRW1 R1	HRW1 R2	HRW1 R3	
Cladocera - water fleas																												
<i>Alona</i> sp								1												1			1	4	1			
<i>Ceriodaphnia</i> sp																						218	764	5				
<i>Chydorus sphaericus</i>																						4						
<i>Ilyocryptus sordidus</i>														1							5							
<i>Scapholeberis mucronata</i>																						2						
Copepoda - microcrustaceans																												
Cyclopoida	1															1					7	1	5	24	5			
Harpacticoida			1				4		1												2		10	12				
Ostracoda - seed shrimp																												
<i>Candona</i> sp							3	4	1	1	1									6	4		3	24	27	1	2	
<i>Cypria</i> sp			1	1			1																16	4				
ANNELIDA - segmented worms																												
Oligochaeta - segmented worms																												
Enchytraeidae	1						1			1	3			1							1	1	1			1		
Lumbriculidae																												
<i>Lumbriculus variegatus</i>																					11		5		1		1	
Naididae																												
<i>Chaetogaster</i> sp																									4			
<i>Dero dero</i>																								4	5			
<i>Nais</i> sp	5		3																				2	17	4		1	
<i>Stylaria lacustris</i>	1																						5					
Tubificidae	6	2	6	8	10	11	15	8	9	3	10	8	3	8	4	2	5			35	82	6	9	7	3	15	3	10
Hirudinea - leeches Unid Juv																												
<i>Batrachobdella picta</i>		1					1	1									1						2					
<i>Helobdella stagnalis</i>						2	1	1																				
MOLLUSCA - clams, snails, etc.																												
Bivalvia - clams																												
<i>Pisidium</i> sp	2			13	19	23	14	29	29				3	1		7	3			22	18	8	3	9	7	1	3	
<i>Sphaerium</i> sp																2	1				3		2	5				
Gastropoda - snails																												
<i>Amnicola</i> sp																2	1				1		3	5	2			
<i>Ferrissia fragilis</i>			4						2												5							
<i>Fossaria modicella</i>						1	1																					
<i>Heliosoma</i> sp																							1	4				
<i>Menetus cooperi</i>																					1		1	1				
<i>Physella gyrina</i>									4					1	1							1	5	3				
<i>Valvata sincera</i>						1			4						1						1		2	24	6			
NEMATODA - roundworms		1	1	1	2	3	22	15	8	4	4	5	3	8	8	1				2	1		2	13		1	2	4
CNIDARIA - hydroids, jellies, etc.																												
<i>Hydra</i> sp													1											1				
Total Counts by Replicate	73	14	39	111	109	270	335	167	296	50	55	52	50	81	55	32	17	35	202	173	36	278	1136	239	140	49	33	

Key: Juv = juvenile; dam = damaged specimen; Unid = unidentified specimen

APPENDIX L7.7-C

Certified Laboratory Reports for Benthos and Periphyton

2008 Results



Référence: SAB: 108327

ANALYSE DU BENTHOS

récolté dans le cadre des projets Cameron et Minago

Rapport final

préparé pour

Roche Itée, Groupe Conseil
Québec

par

Bernadette Jacquaz
Laboratoires SAB Inc.
Longueuil

Juillet 2008

ÉQUIPE DE TRAVAIL

Chargée de projet et contrôle de qualité	Bernadette Jacquaz (MSc.)
Taxinomie	Fernand Therrien (M.Sc.)
Tri	Karine Blain (B.Sc.)

ANALYSE EN LABORATOIRE

Tri

Au laboratoire, les échantillons des mines Cameron et Minago ont été rincés à l'eau claire dans des tamis superposés ayant des ouvertures de mailles de 4000, 2000, 1000 et 500 µm. Les fractions grossières retenues par les tamis de 4000 et 2000 µm ont été triées en totalité à l'aide d'une loupe éclairante. Pour ce qui est de la fraction plus fine (1000 et 500 µm), le tri a été effectué à l'aide d'une loupe binoculaire.

Dans 2 échantillons sur 10, il a fallu procéder au sous-échantillonnage de la fraction plus fine étant donné la grande quantité de sédiments. La méthode utilisée était d'homogénéiser le refus du tamis dans un pot en le brassant avec une cuillère. Puis de le verser et de le répartir uniformément sur un tamis à maille de 500 µm préalablement pesé. Le tamis avec l'échantillon était déposé sur un linge absorbant afin d'en retirer l'eau. Il était alors pesé. On calculait ensuite la proportion (% en terme de poids) de l'échantillon à analyser. Le prélèvement de la proportion de l'échantillon se faisait de façon aléatoire à l'aide d'une cuillère. Le sous-échantillon correspondait à la quantité de matériel qui pouvait être analysée dans un temps raisonnable de 8 heures. Au moins 25 % de l'échantillon était trié. La liste des échantillons sous-échantillonnés est donnée au tableau 1. Le nombre d'organismes retrouvés dans les sous-échantillons a été ramené au nombre total contenu dans l'échantillon en multipliant par l'inverse de la fraction analysée.

Pour valider la méthode de sous-échantillonnage, nous avons effectué une analyse de variabilité sur 1 échantillon (voir le tableau 2 pour les résultats de cette analyse). Pour ce, le tri de toutes les fractions composant l'échantillon était effectué. L'erreur a été estimée avec la formule suivante :

(nombre estimé par la fraction / nombre trié dans l'échantillon complet X 100) - 100

Les organismes récoltés dans les échantillons ont été dénombrés et regroupés selon les grands groupes taxinomiques. Ils ont été conservés dans l'alcool à 70% glycérolisé pour une identification ultérieure.

Un contrôle de qualité du tri a été effectué sur 10 % des échantillons (1/10 échantillons). Pour ce, l'échantillon déjà trié par un technicien était retrié par une personne autre que le trieur d'origine. Les résultats du contrôle de qualité (proportion d'organismes oubliés lors du tri) sont présentés au tableau 3.

Identification

L'évaluation taxinomique des organismes benthiques a été effectuée à partir des clés d'identification citées dans Klemm *et al.* (1990). Les organismes ont été identifiés à la famille sauf les nématodes qui demandent une méthodologie d'échantillonnage et de préservation particulière pour une identification plus précise.

Saisi des données

Les données de dénombrement (nombre d'organismes benthiques identifiés) ont été saisies dans un fichier EXCEL sous forme de matrice qui présente les taxons sur les lignes et les échantillons sur les colonnes . Le tableau 4 présente les résultats de Cameron et le 5, ceux de Minago. La validation de la saisie a été effectuée en comparant les nombres inscrits dans la matrice des données à ceux inscrits dans les feuilles de tri.

Collection de référence

Les collections de référence de Cameron et de Minago sont constituées par quelques individus de taxons d'invertébrés benthiques rencontrés dans chacune des mines. Ces spécimens ont été conservés dans une solution d'alcool à 70 % glycérolé. La collection de référence est envoyée sous pli séparé. La liste des organismes compris dans les collections de Cameron et Minago sont données aux tableaux 6 et 7.

Références

Klemm, D.J., P.A. Lewis, F.Fulk and J.M. Lazorchak. 1990. Macroinvertebrate field and laboratory methods for evaluating the biological integrity of surface waters. Report from the U.S Environmental Protection Agency, Office of Research and Development of the Environmental Monitoring Systems Laboratory, Cincinnati, Ohio. 206 p. + annexes.

TABLEAUX

Tableau 1 . Liste des échantillons sous-échantillonnés lors du tri des organismes benthiques récoltés dans le cadre des projets Cameron et Minago en 2008

Échantillon	Partition (%)	
	Grossier	Fin
Cameron 4C	total	33,3
Minago OCF-1	total	25

Tableau 2. Résultats du contrôle de qualité du fractionnement des échantillons lors du tri des organismes benthiques récoltés dans le cadre des projets Cameron et Minago en 2008

Échantillon	Cameron 1C			
	Fraction (%)	Nombre trié	Nombre estimé	Erreur (%)
	33,3	22	66,07	-8,2
	33,3	27	81,08	12,6
	33,3	23	69,07	-4,1
Total/ moyenne	100	72		8,3
Nombre dans fraction grossière triée au total		11		

Erreur= (nombre estimé par la fraction /nombre trié dans l'échantillon complet X 100) - 100

Tableau 3. Résultats du contrôle de qualité sur le tri des organismes benthiques récoltés dans le cadre des projets Cameron et Minago en 2008

Échantillon	Nombre total d'organismes triés	Nombre oublié	Pourcentage oublié
Cameron 9C	319	4	1,3

Tableau 5. Données relatives à l'abondance par échantillon des organismes benthiques récoltés dans le cadre du projet Minago en 2008

Taxa	CLF-1	LBF-1	MRF-3	OCF-1	WRF-3
PORIFERA					
Demospongiae					
Spongillidae	C	C			
NEMATODA	3	45		4	2
MOLLUSCA					
Prosobranchia					
Hydrobiidae	10		2		44
Pulmonata					
Ancylidae					3
Bivalvia					
Sphaeriidae	4	39	8	25	
ANNELIDA					
Oligochaeta					
Lumbriculidae		2	1		41
Tubificidae	1	6	11		41
Hirudinea					
Glossiphoniidae			1		
ARTHROPODA					
Chelicerata					
Arachnida					
Acari					
Unionicolidae	1				
Crustacea					
Copepoda					
Cyclopoida					
Cyclopidae	1				
Ostracoda					
Podocopida					
Candonidae			1		
Malacostraca					
Amphipoda					
Hyalellidae	2		1		1
Uniramia					
Insecta					
Anisoptera					
Corduliidae				3	
Ephemeroptera					
Ephemeridae	54	1		1	20
Leptophlebiidae				4	
Megaloptera					
Sialidae	4				1
Hemiptera					
Corixidae				1	
Trichoptera					
Hydroptilidae				4	1
Leptoceridae		1	1		1
Limnephilidae			2	2	3
Coleoptera					
Chrysomelidae			2		8
Elmidae				8	
Halplidae				1	
Nematocera					
Ceratopogonidae	1	6	1	9	39
Chironomidae (pupes)					2
Chironomidae (larves)	10	29	15	8	19

C = Colony

Tableau 7. Collection de référence d'organismes benthiques récoltés dans le cadre du projet Minago en 2008

Taxon	No fiole
PORIFERA	
Demospongiae	
Spongillidae	1
NEMATODA	2
MOLLUSCA	
Gastropoda	
Prosobranchia	
Hydrobiidae	3
Pulmonata	
Ancylidae	4
Bivalvia	
Sphaeriidae	5
ANNELIDA	
Oligochaeta	
Lumbriculidae	6
Tubificidae	7
Hirudinea	
Glossiphoniidae	8
ARTHROPODA	
Chelicerata	
Arachnida	
Acari	
Unionicolidae	9
Crustacea	
Copepoda	
Cyclopoida	
Cyclopidae	10
Ostracoda	
Podocopida	
Candonidae	11
Malacostraca	
Amphipoda	
Hyalellidae	12
Uniramia	
Insecta	
Odonata	
Anisoptera	
Corduliidae	13
Ephemeroptera	
Ephemeridae	14
Leptophlebiidae	15
Megaloptera	
Sialidae	16
Hemiptera	
Corixidae	17
Trichoptera	
Hydroptilidae	18
Leptoceridae	19
Limnephilidae	20
Coleoptera	
Chrysomelidae	21
Elmidae	22
Halplidae	23
Diptera	
Nematocera	
Ceratopogonidae	24
Chironomidae (pupes)	25
Chironomidae (larves)	26

APPENDIX L7.7-D

Certified Laboratory Reports for Sediments

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Appendix L7.7-D3: 2008 Results (May 2008)	L7.7-72

APPENDIX L7.7-D1

Certified Laboratory Reports for Sediments

2006 Results (Sept. 2006)

Your Project #: 06513302.00
 Site: MINAGO
 Your C.O.C. #: 08186370, 08186371

Attention: ALISON REINEKE
 WARDROP ENGINEERING INC.
 386 BROADWAY #400
 WINNIPEG, MB
 CANADA R3C 2M8

Report Date: 2006/11/20

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A644389

Received: 2006/09/22, 10:30

Sample Matrix: Soil
 # Samples Received: 20

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Boron (Hot Water Soluble)	20	N/A	2006/09/26	EENVSOP-00034 v1	Carter SSMA 12.2.2
Mercury in Soil by CVAA	16	N/A	2006/10/12	EENVSOP-00032	EPA SW846 7471B
Mercury in Soil by CVAA	4	N/A	2006/10/13	EENVSOP-00032	EPA SW846 7471B
Elements by ICP -Soils	20	N/A	2006/10/11	EENVSOP-00034	EPA 6010C
Elements by ICPMS - Soils	20	N/A	2006/09/28	EENVSOP-00123	EPA 6020A
Moisture	20	N/A	2006/09/26	EENVWI-00023	Carter SSMA 51.2
Organic Carbon and Organic Matter (†)	20	N/A	2006/10/04	CAL SOP-00035	REFLUX/TITRATIO

(1) This test was performed by Maxxam Calgary

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

STACEY JACULA, Project Manager
 Email: stacey.jacula@maxxamanalytics.com
 Phone# (780) 577-7107

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		C 8 7 9 9 6	C 8 7 9 9 7		
Sampling Date		2006/09/19 18:00	2006/09/19 18:00		
COC Number		08186370	08186370		
	Units	OCW-1 REP1	OCW-1 REP2	RDL	QC Batch

Elements					
Soluble (Hot water) Boron (B)	mg/kg	0.2	0.3	0.1	1285171
Mercury (Hg)	mg/kg	<0.05	<0.05	0.05	1303919
Misc. Inorganics					
Organic Matter	%	5.9	3.8	0.2	1295577
Total Organic Carbon (C)	%	3.4	2.2	0.2	1295577
Physical Properties					
Moisture	%	44.9	40.4	0.3	1284223
RDL = Reportable Detection Limit					

Maxxam ID		C 8 7 9 9 8	C 8 7 9 9 9		
Sampling Date		2006/09/19 18:00	2006/09/19 18:00		
COC Number		08186370	08186370		
	Units	OCW-1 REP3	OCW-1 REP4	RDL	QC Batch

Elements					
Soluble (Hot water) Boron (B)	mg/kg	0.6	0.6	0.2	1285171
Mercury (Hg)	mg/kg	<0.05	<0.05	0.05	1303919
Misc. Inorganics					
Organic Matter	%	6.1	21.0	0.2	1295577
Total Organic Carbon (C)	%	3.6	12.2	0.2	1295577
Physical Properties					
Moisture	%	49.3	76.7	0.3	1284223
RDL = Reportable Detection Limit					

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		C 8 8 0 0 0		C 8 8 0 0 1		
Sampling Date		2006/09/19 18:00		2006/09/20 11:20		
COC Number		08186370		08186370		
	Units	OCW-1 REP5	RDL	OCW-2A REP1	RDL	QC Batch

Elements						
Soluble (Hot water) Boron (B)	mg/kg	0.3	0.1	0.9	0.2	1285171
Mercury (Hg)	mg/kg	<0.05	0.05	<0.05	0.05	1303919
Misc. Inorganics						
Organic Matter	%	1.8	0.2	19.5	0.2	1295577
Total Organic Carbon (C)	%	1.0	0.2	11.4	0.2	1295577
Physical Properties						
Moisture	%	27.8	0.3	72.7	0.3	1284223
RDL = Reportable Detection Limit						

Maxxam ID		C 8 8 0 0 2	C 8 8 0 0 3	C 8 8 0 0 4		
Sampling Date		2006/09/20 11:20	2006/09/20 11:20	2006/09/20 11:20		
COC Number		08186370	08186371	08186371		
	Units	OCW-2A REP2	OCW-2A REP3	OCW-2A REP4	RDL	QC Batch

Elements						
Soluble (Hot water) Boron (B)	mg/kg	0.7	0.8	0.6	0.2	1285171
Mercury (Hg)	mg/kg	<0.05	<0.05	<0.05	0.05	1303919
Misc. Inorganics						
Organic Matter	%	36.7	25.2	25.6	0.2	1295577
Total Organic Carbon (C)	%	21.3	14.6	14.9	0.2	1295577
Physical Properties						
Moisture	%	79.1	78.3	75.0	0.3	1284223
RDL = Reportable Detection Limit						

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		C 8 8 0 0 5	C 8 8 0 0 6		
Sampling Date		2006/09/20 11:20	2006/09/20 13:40		
COC Number		08186371	08186371		
	Units	OCW-2A REP5	OCW-3A REP1	RDL	QC Batch

Elements					
Soluble (Hot water) Boron (B)	mg/kg	0.9	0.9	0.2	1285171
Mercury (Hg)	mg/kg	<0.05	0.05	0.05	1303919
Misc. Inorganics					
Organic Matter	%	19.7	39.9	0.2	1295577
Total Organic Carbon (C)	%	11.5	23.2	0.2	1295577
Physical Properties					
Moisture	%	82.4	86.0	0.3	1284223
RDL = Reportable Detection Limit					

Maxxam ID		C 8 8 0 0 7		C 8 8 0 0 8		
Sampling Date		2006/09/20 13:40		2006/09/20 13:40		
COC Number		08186371		08186371		
	Units	OCW-3A REP2	QC Batch	OCW-3A REP3	RDL	QC Batch

Elements						
Soluble (Hot water) Boron (B)	mg/kg	0.9	1285171	1.2	0.2	1285171
Mercury (Hg)	mg/kg	<0.3	1305893	<0.3	0.3	1305893
Misc. Inorganics						
Organic Matter	%	27.7	1295577	27.1	0.2	1295577
Total Organic Carbon (C)	%	16.1	1295577	15.8	0.2	1295577
Physical Properties						
Moisture	%	83.0	1284223	78.8	0.3	1284230
RDL = Reportable Detection Limit						

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		C 8 8 0 0 9	C 8 8 0 1 0		
Sampling Date		2006/09/20 13:40	2006/09/20 13:40		
COC Number		08186371	08186371		
	Units	OCW-3A REP4	OCW-3A REP5	RDL	QC Batch

Elements					
Soluble (Hot water) Boron (B)	mg/kg	1.0	1.1	0.2	1285171
Mercury (Hg)	mg/kg	<0.3	<0.3	0.3	1305893
Misc. Inorganics					
Organic Matter	%	27.2	30.5	0.2	1295577
Total Organic Carbon (C)	%	15.8	17.7	0.2	1295577
Physical Properties					
Moisture	%	76.9	82.5	0.3	1284230

RDL = Reportable Detection Limit

Maxxam Job #: A644389
 Report Date: 2006/11/20

WARDROP ENGINEERING INC.
 Client Project #: 06513302.00
 Site Reference: MINAGO
 Sampler Initials: JM/

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		C 8 7 9 9 1	C 8 7 9 9 2	C 8 7 9 9 3		
Sampling Date		2006/09/19 16:00	2006/09/19 16:00	2006/09/19 16:00		
COC Number		08186370	08186370	08186370		
	Units	MRW-1 REP1	MRW-1 REP2	MRW-1 REP3	RDL	QC Batch

Elements						
Total Aluminum (Al)	mg/kg	14000	17700	10600	10	1302489
Total Antimony (Sb)	mg/kg	<1	<1	<1	1	1286198
Total Arsenic (As)	mg/kg	4	2	4	1	1286198
Total Barium (Ba)	mg/kg	155	145	113	10	1286198
Total Beryllium (Be)	mg/kg	0.8	0.9	0.6	0.4	1286198
Total Boron (B)	mg/kg	15	13	14	2	1302489
Total Cadmium (Cd)	mg/kg	0.8	0.6	0.7	0.1	1286198
Total Chromium (Cr)	mg/kg	33	49	31	1	1328423
Total Cobalt (Co)	mg/kg	15	15	12	1	1286198
Total Copper (Cu)	mg/kg	19	18	15	5	1286198
Total Iron (Fe)	mg/kg	17600	19800	13700	10	1302489
Total Lead (Pb)	mg/kg	13	12	10	1	1286198
Total Lithium (Li)	mg/kg	20	27	15	10	1302489
Total Manganese (Mn)	mg/kg	523	317	282	10	1302489
Total Molybdenum (Mo)	mg/kg	0.5	<0.4	0.5	0.4	1286198
Total Nickel (Ni)	mg/kg	34	38	29	1	1286198
Total Phosphorus (P)	mg/kg	826	534	570	20	1302489
Total Selenium (Se)	mg/kg	<0.5	<0.5	<0.5	0.5	1286198
Total Silver (Ag)	mg/kg	<1	<1	<1	1	1286198
Total Strontium (Sr)	mg/kg	28	31	25	10	1302489
Total Thallium (Tl)	mg/kg	<0.3	<0.3	<0.3	0.3	1286198
Total Tin (Sn)	mg/kg	1	2	1	1	1286198
Total Uranium (U)	mg/kg	2	3	2	1	1286198
Total Vanadium (V)	mg/kg	47	50	38	1	1286198
Total Zinc (Zn)	mg/kg	101	95	82	10	1286198

RDL = Reportable Detection Limit

Maxxam Job #: A644389
 Report Date: 2006/11/20

WARDROP ENGINEERING INC.
 Client Project #: 06513302.00
 Site Reference: MINAGO
 Sampler Initials: JM/

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		C 8 7 9 9 4		C 8 7 9 9 5	C 8 7 9 9 6		
Sampling Date		2006/09/19 16:00		2006/09/19 16:00	2006/09/19 18:00		
COC Number		08186370		08186370	08186370		
	Units	MRW-1 REP4	QC Batch	MRW-1 REP5	OCW-1 REP1	RDL	QC Batch

Elements							
Total Aluminum (Al)	mg/kg	9830	1302489	8120	18800	10	1302489
Total Antimony (Sb)	mg/kg	<1	1286198	<1	<1	1	1286198
Total Arsenic (As)	mg/kg	2	1286198	2	3	1	1286198
Total Barium (Ba)	mg/kg	71	1286198	78	141	10	1286198
Total Beryllium (Be)	mg/kg	<0.4	1286198	0.4	0.9	0.4	1286198
Total Boron (B)	mg/kg	11	1302489	9	11	2	1302489
Total Cadmium (Cd)	mg/kg	0.3	1286198	0.3	0.8	0.1	1286198
Total Chromium (Cr)	mg/kg	40	1347702	28	46	1	1328423
Total Cobalt (Co)	mg/kg	7	1286198	8	15	1	1286198
Total Copper (Cu)	mg/kg	8	1286198	8	23	5	1286198
Total Iron (Fe)	mg/kg	11800	1302489	10300	19800	10	1302489
Total Lead (Pb)	mg/kg	6	1286198	7	12	1	1286198
Total Lithium (Li)	mg/kg	14	1302489	11	27	10	1302489
Total Manganese (Mn)	mg/kg	142	1302489	204	339	10	1302489
Total Molybdenum (Mo)	mg/kg	<0.4	1286198	<0.4	<0.4	0.4	1286198
Total Nickel (Ni)	mg/kg	18	1286198	19	41	1	1286198
Total Phosphorus (P)	mg/kg	481	1302489	424	402	20	1302489
Total Selenium (Se)	mg/kg	<0.5	1286198	<0.5	<0.5	0.5	1286198
Total Silver (Ag)	mg/kg	<1	1286198	<1	<1	1	1286198
Total Strontium (Sr)	mg/kg	20	1302489	18	37	10	1302489
Total Thallium (Tl)	mg/kg	<0.3	1286198	<0.3	<0.3	0.3	1286198
Total Tin (Sn)	mg/kg	<1	1286198	1	<1	1	1286198
Total Uranium (U)	mg/kg	2	1286198	1	1	1	1286198
Total Vanadium (V)	mg/kg	24	1286198	25	54	1	1286198
Total Zinc (Zn)	mg/kg	49	1286198	53	74	10	1286198

RDL = Reportable Detection Limit

Maxxam Job #: A644389
 Report Date: 2006/11/20

WARDROP ENGINEERING INC.
 Client Project #: 06513302.00
 Site Reference: MINAGO
 Sampler Initials: JM/

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		C 8 7 9 9 7		C 8 7 9 9 8	C 8 7 9 9 9		
Sampling Date		2006/09/19 18:00		2006/09/19 18:00	2006/09/19 18:00		
COC Number		08186370		08186370	08186370		
	Units	OCW-1 REP2	QC Batch	OCW-1 REP3	OCW-1 REP4	RDL	QC Batch

Elements							
Total Aluminum (Al)	mg/kg	17700	1302489	11400	9390	10	1302489
Total Antimony (Sb)	mg/kg	<1	1286198	<1	<1	1	1286198
Total Arsenic (As)	mg/kg	5	1286198	2	1	1	1286198
Total Barium (Ba)	mg/kg	162	1286198	96	108	10	1286198
Total Beryllium (Be)	mg/kg	1.1	1286198	0.6	0.4	0.4	1286198
Total Boron (B)	mg/kg	11	1302489	8	7	2	1302489
Total Cadmium (Cd)	mg/kg	1.0	1286198	0.6	0.5	0.1	1286198
Total Chromium (Cr)	mg/kg	42	1328423	42	33	1	1347702
Total Cobalt (Co)	mg/kg	17	1286198	10	8	1	1286198
Total Copper (Cu)	mg/kg	25	1286198	15	7	5	1286198
Total Iron (Fe)	mg/kg	20200	1302489	13200	11700	10	1302489
Total Lead (Pb)	mg/kg	14	1286198	8	6	1	1286198
Total Lithium (Li)	mg/kg	26	1302489	16	13	10	1302489
Total Manganese (Mn)	mg/kg	428	1302489	302	315	10	1302489
Total Molybdenum (Mo)	mg/kg	<0.4	1286198	<0.4	<0.4	0.4	1286198
Total Nickel (Ni)	mg/kg	44	1286198	27	19	1	1286198
Total Phosphorus (P)	mg/kg	501	1302489	352	420	20	1302489
Total Selenium (Se)	mg/kg	<0.5	1286198	<0.5	<0.5	0.5	1286198
Total Silver (Ag)	mg/kg	<1	1286198	<1	<1	1	1286198
Total Strontium (Sr)	mg/kg	44	1302489	23	20	10	1302489
Total Thallium (Tl)	mg/kg	0.3	1286198	<0.3	<0.3	0.3	1286198
Total Tin (Sn)	mg/kg	4	1286198	<1	<1	1	1286198
Total Uranium (U)	mg/kg	1	1286198	<1	1	1	1286198
Total Vanadium (V)	mg/kg	58	1286198	34	23	1	1286198
Total Zinc (Zn)	mg/kg	76	1286198	52	56	10	1286198

RDL = Reportable Detection Limit

Maxxam Job #: A644389
 Report Date: 2006/11/20

WARDROP ENGINEERING INC.
 Client Project #: 06513302.00
 Site Reference: MINAGO
 Sampler Initials: JM/

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		C 8 8 0 0 0		C 8 8 0 0 1	C 8 8 0 0 2		
Sampling Date		2006/09/19 18:00		2006/09/20 11:20	2006/09/20 11:20		
COC Number		08186370		08186370	08186370		
	Units	OCW-1 REP5	QC Batch	OCW-2A REP1	OCW-2A REP2	RDL	QC Batch

Elements							
Total Aluminum (Al)	mg/kg	20200	1302489	4390	3390	10	1302489
Total Antimony (Sb)	mg/kg	<1	1286198	<1	<1	1	1286198
Total Arsenic (As)	mg/kg	3	1286198	<1	1	1	1286198
Total Barium (Ba)	mg/kg	148	1286198	58	61	10	1286198
Total Beryllium (Be)	mg/kg	0.9	1286198	<0.4	<0.4	0.4	1286198
Total Boron (B)	mg/kg	10	1302489	6	6	2	1302489
Total Cadmium (Cd)	mg/kg	0.5	1286198	0.3	0.4	0.1	1286198
Total Chromium (Cr)	mg/kg	41	1328423	19	17	1	1347702
Total Cobalt (Co)	mg/kg	16	1286198	4	4	1	1286198
Total Copper (Cu)	mg/kg	18	1286198	<5	<5	5	1286198
Total Iron (Fe)	mg/kg	20800	1302489	6180	5620	10	1302489
Total Lead (Pb)	mg/kg	12	1286198	3	3	1	1286198
Total Lithium (Li)	mg/kg	27	1302489	<10	<10	10	1302489
Total Manganese (Mn)	mg/kg	521	1302489	168	215	10	1302489
Total Molybdenum (Mo)	mg/kg	<0.4	1286198	<0.4	<0.4	0.4	1286198
Total Nickel (Ni)	mg/kg	41	1286198	8	8	1	1286198
Total Phosphorus (P)	mg/kg	347	1302489	328	274	20	1302489
Total Selenium (Se)	mg/kg	<0.5	1286198	<0.5	0.8	0.5	1286198
Total Silver (Ag)	mg/kg	<1	1286198	<1	<1	1	1286198
Total Strontium (Sr)	mg/kg	27	1302489	16	17	10	1302489
Total Thallium (Tl)	mg/kg	<0.3	1286198	<0.3	<0.3	0.3	1286198
Total Tin (Sn)	mg/kg	<1	1286198	<1	<1	1	1286198
Total Uranium (U)	mg/kg	<1	1286198	<1	1	1	1286198
Total Vanadium (V)	mg/kg	54	1286198	9	10	1	1286198
Total Zinc (Zn)	mg/kg	76	1286198	22	23	10	1286198

RDL = Reportable Detection Limit

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		C 8 8 0 0 3	C 8 8 0 0 4	C 8 8 0 0 5		
Sampling Date		2006/09/20 11:20	2006/09/20 11:20	2006/09/20 11:20		
COC Number		08186371	08186371	08186371		
	Units	OCW-2A REP3	OCW-2A REP4	OCW-2A REP5	RDL	QC Batch

Elements						
Total Aluminum (Al)	mg/kg	4090	4610	3370	10	1302489
Total Antimony (Sb)	mg/kg	<1	<1	<1	1	1286198
Total Arsenic (As)	mg/kg	1	<1	<1	1	1286198
Total Barium (Ba)	mg/kg	68	66	54	10	1286198
Total Beryllium (Be)	mg/kg	<0.4	<0.4	<0.4	0.4	1286198
Total Boron (B)	mg/kg	6	6	5	2	1302489
Total Cadmium (Cd)	mg/kg	0.4	0.3	0.3	0.1	1286198
Total Chromium (Cr)	mg/kg	18	21	15	1	1347702
Total Cobalt (Co)	mg/kg	4	5	3	1	1286198
Total Copper (Cu)	mg/kg	<5	<5	<5	5	1286198
Total Iron (Fe)	mg/kg	6410	6460	5510	10	1302489
Total Lead (Pb)	mg/kg	3	3	3	1	1286198
Total Lithium (Li)	mg/kg	<10	<10	<10	10	1302489
Total Manganese (Mn)	mg/kg	364	221	252	10	1302489
Total Molybdenum (Mo)	mg/kg	<0.4	<0.4	<0.4	0.4	1286198
Total Nickel (Ni)	mg/kg	9	10	7	1	1286198
Total Phosphorus (P)	mg/kg	322	349	294	20	1302489
Total Selenium (Se)	mg/kg	0.7	0.7	<0.5	0.5	1286198
Total Silver (Ag)	mg/kg	<1	<1	<1	1	1286198
Total Strontium (Sr)	mg/kg	18	16	16	10	1302489
Total Thallium (Tl)	mg/kg	<0.3	<0.3	<0.3	0.3	1286198
Total Tin (Sn)	mg/kg	<1	<1	<1	1	1286198
Total Uranium (U)	mg/kg	<1	1	<1	1	1286198
Total Vanadium (V)	mg/kg	10	12	8	1	1286198
Total Zinc (Zn)	mg/kg	24	29	19	10	1286198

RDL = Reportable Detection Limit

Maxxam Job #: A644389
 Report Date: 2006/11/20

WARDROP ENGINEERING INC.
 Client Project #: 06513302.00
 Site Reference: MINAGO
 Sampler Initials: JM/

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		C 8 8 0 0 6	C 8 8 0 0 7	C 8 8 0 0 8		
Sampling Date		2006/09/20 13:40	2006/09/20 13:40	2006/09/20 13:40		
COC Number		08186371	08186371	08186371		
	Units	OCW-3A REP1	OCW-3A REP2	OCW-3A REP3	RDL	QC Batch

Elements						
Total Aluminum (Al)	mg/kg	3720	3930	5860	10	1302489
Total Antimony (Sb)	mg/kg	<1	<1	<1	1	1286198
Total Arsenic (As)	mg/kg	2	2	1	1	1286198
Total Barium (Ba)	mg/kg	99	124	92	10	1286198
Total Beryllium (Be)	mg/kg	<0.4	<0.4	<0.4	0.4	1286198
Total Boron (B)	mg/kg	9	12	10	2	1302489
Total Cadmium (Cd)	mg/kg	0.4	0.6	0.4	0.1	1286198
Total Chromium (Cr)	mg/kg	16	10	24	1	1347702
Total Cobalt (Co)	mg/kg	5	5	5	1	1286198
Total Copper (Cu)	mg/kg	<5	5	<5	5	1286198
Total Iron (Fe)	mg/kg	8280	9400	8050	10	1302489
Total Lead (Pb)	mg/kg	4	5	4	1	1286198
Total Lithium (Li)	mg/kg	<10	<10	<10	10	1302489
Total Manganese (Mn)	mg/kg	341	417	157	10	1302489
Total Molybdenum (Mo)	mg/kg	<0.4	<0.4	<0.4	0.4	1286198
Total Nickel (Ni)	mg/kg	10	12	13	1	1286198
Total Phosphorus (P)	mg/kg	459	509	508	20	1302489
Total Selenium (Se)	mg/kg	1.1	1.6	0.7	0.5	1286198
Total Silver (Ag)	mg/kg	<1	<1	<1	1	1286198
Total Strontium (Sr)	mg/kg	23	28	25	10	1302489
Total Thallium (Tl)	mg/kg	<0.3	<0.3	<0.3	0.3	1286198
Total Tin (Sn)	mg/kg	<1	<1	<1	1	1286198
Total Uranium (U)	mg/kg	2	2	2	1	1286198
Total Vanadium (V)	mg/kg	10	12	13	1	1286198
Total Zinc (Zn)	mg/kg	36	46	39	10	1286198

RDL = Reportable Detection Limit

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		C 8 8 0 0 9	C 8 8 0 1 0		
Sampling Date		2006/09/20 13:40	2006/09/20 13:40		
COC Number		08186371	08186371		
	Units	OCW-3A REP4	OCW-3A REP5	RDL	QC Batch

Elements					
Total Aluminum (Al)	mg/kg	4210	3540	10	1302489
Total Antimony (Sb)	mg/kg	<1	<1	1	1286198
Total Arsenic (As)	mg/kg	1	1	1	1286198
Total Barium (Ba)	mg/kg	73	82	10	1286198
Total Beryllium (Be)	mg/kg	<0.4	<0.4	0.4	1286198
Total Boron (B)	mg/kg	7	7	2	1302489
Total Cadmium (Cd)	mg/kg	0.3	0.3	0.1	1286198
Total Chromium (Cr)	mg/kg	17	15	1	1347702
Total Cobalt (Co)	mg/kg	4	4	1	1286198
Total Copper (Cu)	mg/kg	<5	<5	5	1286198
Total Iron (Fe)	mg/kg	6940	7100	10	1302489
Total Lead (Pb)	mg/kg	3	3	1	1286198
Total Lithium (Li)	mg/kg	<10	<10	10	1302489
Total Manganese (Mn)	mg/kg	264	416	10	1302489
Total Molybdenum (Mo)	mg/kg	<0.4	<0.4	0.4	1286198
Total Nickel (Ni)	mg/kg	9	9	1	1286198
Total Phosphorus (P)	mg/kg	415	405	20	1302489
Total Selenium (Se)	mg/kg	0.6	0.8	0.5	1286198
Total Silver (Ag)	mg/kg	<1	<1	1	1286198
Total Strontium (Sr)	mg/kg	19	19	10	1302489
Total Thallium (Tl)	mg/kg	<0.3	<0.3	0.3	1286198
Total Tin (Sn)	mg/kg	<1	<1	1	1286198
Total Vanadium (V)	mg/kg	9	8	1	1286198
Total Zinc (Zn)	mg/kg	28	28	10	1286198

RDL = Reportable Detection Limit

RESULTS OF CHEMICAL ANALYSES OF SOIL Comments

- Sample C87991-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C87992-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C87993-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C87994-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C87995-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C87998-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C87999-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C88001-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C88002-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C88003-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C88004-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C88005-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C88006-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C88007-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C88008-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C88009-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C88010-01 Boron (Hot Water Soluble): Detection limits raised due to insufficient sample amount (Peat Moss)
- Sample C88007-01 Mercury in Soil by CVAA: Detection limits raised due to matrix interference
- Sample C88008-01 Mercury in Soil by CVAA: Detection limits raised due to matrix interference
- Sample C88009-01 Mercury in Soil by CVAA: Detection limits raised due to matrix interference
- Sample C88010-01 Mercury in Soil by CVAA: Detection limits raised due to matrix interference

Results relate only to the items tested.

WARDROP ENGINEERING INC.
 Attention: ALISON REINEKE
 Client Project #: 06513302.00
 P.O. #:
 Site Reference: MINAGO

Quality Assurance Report
 Maxxam Job Number: EA644389

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1284223 MD1	BLANK	Moisture	2006/09/26	<0.3		%		
	RPD	Moisture	2006/09/26	1.4		%	20	
1284230 HL2	BLANK	Moisture	2006/09/26	<0.3		%		
	RPD	Moisture	2006/09/26	1.3		%	20	
1285171 MC3	MATRIX SPIKE							
	[C88000-01]	Soluble (Hot water) Boron (B)	2006/09/26		86	%	80 - 120	
	SPIKE	Soluble (Hot water) Boron (B)	2006/09/26		105	%	85 - 115	
	BLANK	Soluble (Hot water) Boron (B)	2006/09/26	<0.1		mg/kg		
1286198 MS2	RPD [C 8 8 0 - 0 1]	Soluble (Hot water) Boron (B)	2006/09/26	NC		%	35	
	Calibration Check	Total Antimony (Sb)	2006/09/28		95	%	80 - 120	
		Total Arsenic (As)	2006/09/28		101	%	80 - 120	
		Total Barium (Ba)	2006/09/28		100	%	80 - 120	
		Total Beryllium (Be)	2006/09/28		97	%	80 - 120	
		Total Cadmium (Cd)	2006/09/28		99	%	80 - 120	
		Total Cobalt (Co)	2006/09/28		101	%	80 - 120	
		Total Copper (Cu)	2006/09/28		88	%	80 - 120	
		Total Lead (Pb)	2006/09/28		103	%	80 - 120	
		Total Molybdenum (Mo)	2006/09/28		106	%	80 - 120	
		Total Nickel (Ni)	2006/09/28		101	%	80 - 120	
		Total Selenium (Se)	2006/09/28		101	%	80 - 120	
		Total Silver (Ag)	2006/09/28		106	%	80 - 120	
		Total Thallium (Tl)	2006/09/28		104	%	80 - 120	
		Total Tin (Sn)	2006/09/28		95	%	80 - 120	
		Total Uranium (U)	2006/09/28		104	%	80 - 120	
		Total Vanadium (V)	2006/09/28		99	%	80 - 120	
		Total Zinc (Zn)	2006/09/28		93	%	80 - 120	
		MATRIX SPIKE [C87991-01]	Total Arsenic (As)	2006/09/28		108	%	80 - 120
			Total Cadmium (Cd)	2006/09/28		97	%	N/A
			Total Lead (Pb)	2006/09/28		94	%	N/A
			Total Selenium (Se)	2006/09/28		106	%	80 - 120
			Total Thallium (Tl)	2006/09/28		98	%	80 - 120
		SPIKE	Total Arsenic (As)	2006/09/28		102	%	N/A
			Total Cadmium (Cd)	2006/09/28		94	%	N/A
			Total Lead (Pb)	2006/09/28		97	%	N/A
			Total Selenium (Se)	2006/09/28		102	%	N/A
		Total Thallium (Tl)	2006/09/28		96	%	N/A	
	BLANK	Total Antimony (Sb)	2006/09/28	<1		mg/kg		
		Total Arsenic (As)	2006/09/28	<1		mg/kg		
		Total Barium (Ba)	2006/09/28	<10		mg/kg		
		Total Beryllium (Be)	2006/09/28	<0.4		mg/kg		
		Total Cadmium (Cd)	2006/09/28	<0.1		mg/kg		
		Total Cobalt (Co)	2006/09/28	<1		mg/kg		
		Total Copper (Cu)	2006/09/28	<5		mg/kg		
		Total Lead (Pb)	2006/09/28	<1		mg/kg		
		Total Molybdenum (Mo)	2006/09/28	<0.4		mg/kg		
		Total Nickel (Ni)	2006/09/28	<1		mg/kg		
		Total Selenium (Se)	2006/09/28	<0.5		mg/kg		
		Total Silver (Ag)	2006/09/28	<1		mg/kg		
		Total Thallium (Tl)	2006/09/28	<0.3		mg/kg		
		Total Tin (Sn)	2006/09/28	<1		mg/kg		
		Total Uranium (U)	2006/09/28	<1		mg/kg		
		Total Vanadium (V)	2006/09/28	<1		mg/kg		
		Total Zinc (Zn)	2006/09/28	<10		mg/kg		
	RPD [C 8 8 9 - 0 1]	Total Antimony (Sb)	2006/09/28	NC		%	35	

WARDROP ENGINEERING INC.
 Attention: ALISON REINEKE
 Client Project #: 06513302.00
 P.O. #:
 Site Reference: MINAGO

Quality Assurance Report (Continued)
 Maxxam Job Number: EA644389

QA/QC Batch	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits	
1286198 MS2	RPD [C 8 7 9 - 0 1]	Total Arsenic (As)	2006/09/28	NC		%	35	
		Total Barium (Ba)	2006/09/28	6.6		%	35	
		Total Beryllium (Be)	2006/09/28	NC		%	35	
		Total Cadmium (Cd)	2006/09/28	4.4		%	35	
		Total Cobalt (Co)	2006/09/28	1.4		%	35	
		Total Copper (Cu)	2006/09/28	NC		%	35	
		Total Lead (Pb)	2006/09/28	6.8		%	35	
		Total Molybdenum (Mo)	2006/09/28	NC		%	35	
		Total Nickel (Ni)	2006/09/28	3.6		%	35	
		Total Selenium (Se)	2006/09/28	NC		%	35	
		Total Silver (Ag)	2006/09/28	NC		%	35	
		Total Thallium (Tl)	2006/09/28	NC		%	35	
		Total Tin (Sn)	2006/09/28	NC		%	35	
		Total Vanadium (V)	2006/09/28	5.0		%	35	
Total Zinc (Zn)	2006/09/28	3.5		%	35			
1295577 DR1	QC STANDARD	Total Organic Carbon (C)	2006/10/04		104	%	78 - 117	
	RPD	Total Organic Carbon (C)	2006/10/04	8.2		%	35	
	RPD [C 8 8 0 - 0 1]	Organic Matter	2006/10/04	6.0		%	35	
		Total Organic Carbon (C)	2006/10/04	5.7		%	35	
1302489 MC3	Calibration Check	Total Aluminum (Al)	2006/10/11		101	%	80 - 120	
		Total Boron (B)	2006/10/11		97	%	80 - 120	
		Total Iron (Fe)	2006/10/11		100	%	80 - 120	
		Total Lithium (Li)	2006/10/11		94	%	80 - 120	
		Total Manganese (Mn)	2006/10/11		99	%	80 - 120	
		Total Phosphorus (P)	2006/10/11		100	%	80 - 120	
		Total Strontium (Sr)	2006/10/11		94	%	80 - 120	
		SPIKE	Total Aluminum (Al)	2006/10/11		104	%	75 - 125
			Total Boron (B)	2006/10/11		104	%	80 - 120
			Total Iron (Fe)	2006/10/11		101	%	75 - 125
			Total Lithium (Li)	2006/10/11		94	%	75 - 125
			Total Manganese (Mn)	2006/10/11		101	%	75 - 125
	Total Phosphorus (P)		2006/10/11		103	%	75 - 125	
	BLANK	Total Strontium (Sr)	2006/10/11		95	%	75 - 125	
		Total Aluminum (Al)	2006/10/11	<10		mg/kg		
		Total Boron (B)	2006/10/11	<2		mg/kg		
		Total Iron (Fe)	2006/10/11	<10		mg/kg		
		Total Lithium (Li)	2006/10/11	<10		mg/kg		
		Total Manganese (Mn)	2006/10/11	<10		mg/kg		
	RPD [C 8 7 9 - 0 1]	Total Phosphorus (P)	2006/10/11	<20		mg/kg		
		Total Strontium (Sr)	2006/10/11	<10		mg/kg		
		Total Aluminum (Al)	2006/10/11	0.1		%	35	
		Total Boron (B)	2006/10/11	0.3		%	35	
		Total Iron (Fe)	2006/10/11	0.2		%	35	
Total Lithium (Li)		2006/10/11	NC		%	35		
Total Manganese (Mn)		2006/10/11	0.08		%	35		
Total Phosphorus (P)		2006/10/11	0.9		%	35		
Total Strontium (Sr)		2006/10/11	NC		%	35		
1303919 YY1		Calibration Check	Mercury (Hg)	2006/10/12		107	%	85 - 115
		QC STANDARD	Mercury (Hg)	2006/10/12		108	%	N/A
		BLANK	Mercury (Hg)	2006/10/12	<0.05		mg/kg	
	RPD [C 8 7 9 - 0 1]	Mercury (Hg)	2006/10/12	NC		%	35	
1305893 YY1	Calibration Check	Mercury (Hg)	2006/10/13		109	%	85 - 115	
	QC STANDARD	Mercury (Hg)	2006/10/13		104	%	N/A	
	BLANK	Mercury (Hg)	2006/10/13	<0.05		mg/kg		
	RPD	Mercury (Hg)	2006/10/13	NC		%	35	

WARDROP ENGINEERING INC.
 Attention: ALISON REINEKE
 Client Project #: 06513302.00
 P.O. #:
 Site Reference: MINAGO

Quality Assurance Report (Continued)
 Maxxam Job Number: EA644389

QA/QC Batch				Date Analyzed				QC Limits
Num Init	QC Type	Parameter		yyyy/mm/dd	Value	Recovery	Units	
1328423	AC4	Calibration Check	Total Chromium (Cr)	2006/11/03		102	%	80 - 120
		BLANK	Total Chromium (Cr)	2006/11/03	<1		mg/kg	
1347702	AC4	Calibration Check	Total Chromium (Cr)	2006/11/14		94	%	80 - 120
		BLANK	Total Chromium (Cr)	2006/11/14	<1		mg/kg	

N/A = Not Applicable
 NC = Non-calculable
 RPD = Relative Percent Difference

Edmonton: 9331 - 48th Street T6B 2R4 Telephone(780) 468-3500 FAX(780) 466-3332
 Edmonton: 9619 - 42 Avenue T6E 5R2 Telephone(780) 465-1212 FAX(780) 450-4187

APPENDIX L7.7-D2

Certified Laboratory Reports for Sediments

2007 Results (Aug. 2007)



Environmental Division

ANALYTICAL REPORT

URS CANADA INC.

ATTN: KEITH MOUNTJOY

Reported On: 10-SEP-07 02:45 PM

P.O. BOX 11507
1900 - 650 WEST GEORGIA STREET
VANCOUVER BC V6B 4N7

Lab Work Order #: L544316

Date Received: 21-AUG-07

Project P.O. #:

Job Reference: 39548827

Legal Site Desc:

CofC Numbers:

Other Information:

NOTE:

Only information pertaining to sediment analysis was reproduced for this section. Results for Aug. 2007 water samples are given elsewhere in this report.

Comments: Please note the water sample identified as OCW1 on the chain of custody was not received. In addition, the extra sample identified as OCW3 (sampling date of Aug 13th, 2007) was received but not listed on the COC.

A replacement submission for OCW1 was received at a later date and logged in under its own ALS Work Order - L550904.

If further details are required, please contact ALS.

Timothy Guy Crowther
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Jerry Holzbecher

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

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ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L544316-9	L544316-10	L544316-11	L544316-12	L544316-13
		16-AUG-07	16-AUG-07	16-AUG-07	16-AUG-07	16-AUG-07
		MRW1	MRW2	MRW3	HRW1	OCW1
Grouping	Analyte					
SOIL						
Physical Tests	% Moisture (%)	20.1	65.2	17.8	40.1	22.7
	pH (pH)	7.69	7.06	8.26	7.92	8.46
Metals	Antimony (Sb) (mg/kg)	<10	<10	<10	<10	<10
	Arsenic (As) (mg/kg)	<5.0	<5.0	<5.0	<5.0	<5.0
	Barium (Ba) (mg/kg)	20.8	125	12.8	40.6	117
	Beryllium (Be) (mg/kg)	<0.50	0.64	<0.50	<0.50	0.56
	Cadmium (Cd) (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Chromium (Cr) (mg/kg)	10.0	39.2	9.9	19.4	37.2
	Cobalt (Co) (mg/kg)	2.9	9.8	2.1	4.4	13.1
	Copper (Cu) (mg/kg)	6.0	17.4	3.5	10.7	17.9
	Lead (Pb) (mg/kg)	<30	<30	<30	<30	<30
	Mercury (Hg) (mg/kg)	0.0095	0.0492	0.0076	0.0218	0.0143
	Molybdenum (Mo) (mg/kg)	<4.0	<4.0	<4.0	<4.0	<4.0
	Nickel (Ni) (mg/kg)	8.5	23.8	7.0	10.8	32.5
	Selenium (Se) (mg/kg)	<2.0	<3.0	<6.0	<2.0	<2.0
	Silver (Ag) (mg/kg)	<2.0	<2.0	<2.0	<2.0	<2.0
	Thallium (Tl) (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0
	Tin (Sn) (mg/kg)	<5.0	<5.0	<5.0	<5.0	<5.0
	Vanadium (V) (mg/kg)	12.3	37.6	11.2	19.8	43.6
	Zinc (Zn) (mg/kg)	14.0	62.3	8.0	21.4	46.8
Organic Parameters	Organic Carbon (%)	3.58	12.2	1.05	3.59	0.66
Particle Size	% Gravel (>2mm) (%)	7	<1	1	<1	5
	% Sand (2.00mm - 1.00mm) (%)	15	1	3	<1	1
	% Sand (1.00mm - 0.50mm) (%)	33	2	9	1	5
	% Sand (0.50mm - 0.25mm) (%)	17	1	22	3	6
	% Sand (0.25mm - 0.125mm) (%)	6	3	54	15	3
	% Sand (0.125mm - 0.063mm) (%)	3	6	4	29	3
	% Silt (0.063mm - 0.0312mm) (%)	2	7	1	26	7
	% Silt (0.0312mm - 0.004mm) (%)	10	44	2	14	20
	% Clay (<4um) (%)	9	37	5	12	51

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L544316-14	L544316-15	L544316-16	L544316-17
		Description				
		Sampled Date	16-AUG-07	16-AUG-07	16-AUG-07	16-AUG-07
		Sampled Time				
		Client ID	OCW2	OCW3	WRW1	WRW2
Grouping	Analyte					
SOIL						
Physical Tests	% Moisture (%)		71.3	78.2	23.0	43.5
	pH (pH)		7.17	6.88	8.45	8.04
Metals	Antimony (Sb) (mg/kg)		<10	<10	<10	<10
	Arsenic (As) (mg/kg)		<5.0	<5.0	<5.0	<5.0
	Barium (Ba) (mg/kg)		72.6	128	53.9	100
	Beryllium (Be) (mg/kg)		<0.50	<0.50	<0.50	0.65
	Cadmium (Cd) (mg/kg)		<0.50	<0.50	<0.50	<0.50
	Chromium (Cr) (mg/kg)		13.2	13.5	18.2	33.6
	Cobalt (Co) (mg/kg)		3.1	4.7	5.4	8.8
	Copper (Cu) (mg/kg)		5.9	7.5	6.6	17.2
	Lead (Pb) (mg/kg)		<30	<30	<30	<30
	Mercury (Hg) (mg/kg)		0.0429	0.0586	0.0075	0.0249
	Molybdenum (Mo) (mg/kg)		<4.0	<4.0	<4.0	<4.0
	Nickel (Ni) (mg/kg)		7.7	8.7	11.9	21.6
	Selenium (Se) (mg/kg)		<2.0	<3.0	<2.0	<3.0
	Silver (Ag) (mg/kg)		<2.0	<2.0	<2.0	<2.0
	Thallium (Tl) (mg/kg)		<1.0	<1.0	<1.0	<1.0
	Tin (Sn) (mg/kg)		<5.0	<5.0	<5.0	<5.0
	Vanadium (V) (mg/kg)		12.2	16.2	18.7	35.7
Zinc (Zn) (mg/kg)		26.4	33.4	24.9	50.6	
Organic Parameters	Organic Carbon (%)		17.2	22.9	1.18	2.64
Particle Size	% Gravel (>2mm) (%)		<1	<1	<1	<1
	% Sand (2.00mm - 1.00mm) (%)		<1	<1	<1	<1
	% Sand (1.00mm - 0.50mm) (%)		4	3	2	<1
	% Sand (0.50mm - 0.25mm) (%)		6	3	5	<1
	% Sand (0.25mm - 0.125mm) (%)		12	5	45	2
	% Sand (0.125mm - 0.063mm) (%)		32	20	21	5
	% Silt (0.063mm - 0.0312mm) (%)		18	21	5	19
	% Silt (0.0312mm - 0.004mm) (%)		15	30	6	37
	% Clay (<4um) (%)		11	17	17	36

Reference Information

Qualifiers for Sample Submission Listed:

Qualifier	Description
NR:NR	No Result: Sample Not Received At Laboratory - OCW1 water, AUG-DUP1 sediment, WRW1 waters not received.
SR:COC	Sample Received, Not Listed on Submitted Chain of Custody / Analytical Request Form - OCW3 AUG 13/07 extra sample not on COC.

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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C-TOT-ORG-LECO-SK

Soil

Organic Carbon by combustion method

SSSA (1996) p. 973

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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HG-CCME-CVAFS-VA	Soil	CVAFS Hg in Soil (CCME)	CCME
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This analysis is carried out using procedures from CSR Analytical Method 8 "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, Lands and Parks, 26 June 2001, and procedures adapted from "Test Methods for Evaluating Solid Waste", SW-846 Method 3050B United States Environmental Protection Agency (EPA). The sample is manually homogenized, dried at 60 degrees Celsius, sieved through a 2 mm (10 mesh) sieve, and a representative subsample of the dry material is weighed. The sample is then digested at 90 degrees Celsius for 2 hours by block digester using a 1:1 ratio of concentrated nitric and hydrochloric acids. Instrumental analysis is by atomic fluorescence spectrophotometry (EPA Method 7000 series).

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that may be environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.

MET-CSR-FULL-ICP-VA	Soil	Metals in Soil by ICPOES (CSR SALM)	BCMELP CSR SALM METHOD 8
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This analysis is carried out using procedures from CSR Analytical Method 8 "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, Lands and Parks, 26 June 2001, and procedures adapted from "Test Methods for Evaluating Solid Waste", SW-846 Method 3050B United States Environmental Protection Agency (EPA). The sample is manually homogenized, dried at 60 degrees Celsius, sieved through a 2 mm (10 mesh) sieve, and a representative subsample of the dry material is weighed. The sample is then digested at 90 degrees Celsius for 2 hours by block digester using a 1:1 ratio of concentrated nitric and hydrochloric acids. Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that may be environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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MOISTURE-VA	Soil	% Moisture	ASTM METHOD D2794-00
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This analysis is carried out gravimetrically by drying the sample at 105 C for a minimum of six hours.

PH-1:2-VA	Soil	CSR pH by 1:2 Water Leach	BC WLAP METHOD: PH, ELECTROMETRIC, SOIL
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This analysis is carried out in accordance with procedures described in the BC WLAP method: pH, Electrometric, Soil and Sediment. The procedure involves mixing the dried (at <60 C) and sieved (10 mesh/2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water. The pH of the solution is then measured using a standard pH probe.

PSA-PIPET-DETAIL-SK	Soil	Particle size - Sieve and Pipette	FORESTRY CANADA (1991) P. 46-48 MOD
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TL-CSR-MS-VA	Soil	ICPMS TI in Soil by CSR SALM	BCMELP CSR SALM Method 8
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This analysis is carried out using procedures from CSR Analytical Method 8 "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, Lands and Parks, 26 June 2001, and procedures adapted from "Test Methods for Evaluating Solid Waste", SW-846 Method 3050B United States Environmental Protection Agency (EPA). The sample is manually homogenized, dried at 60 degrees Celsius, sieved through a 2 mm

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
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** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.
The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
SK	ALS LABORATORY GROUP - SASKATOON, SASKATCHEWAN, CANADA	SR	Saskatchewan Research Council - Saskatoon, Saskatchewan, Can

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
VA		ALS LABORATORY GROUP - VANCOUVER, BC, CANADA	

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

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Workorder: L544316

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-ORG-LECO-SK Soil								
Batch	R567125							
WG648883-1	DUP	L544316-12						
Organic Carbon		3.59	3.60		%	0.13	26	28-AUG-07
HG-CCME-CVAFS-VA Soil								
Batch	R565826							
WG646543-3	CRM	VA-CANMET-TILL1						
Mercury (Hg)			117		%		86-139	24-AUG-07
WG646543-4	CRM	VA-NRC-PACS2						
Mercury (Hg)			99		%		85-116	24-AUG-07
WG646543-1	MB							
Mercury (Hg)			<0.0050		mg/kg		0.005	24-AUG-07
WG646543-2	MB							
Mercury (Hg)			<0.0050		mg/kg		0.005	24-AUG-07
Batch	R566307							
WG647270-3	CRM	VA-CANMET-TILL1						
Mercury (Hg)			102		%		86-139	27-AUG-07
WG647270-4	CRM	VA-NRC-PACS2						
Mercury (Hg)			99		%		85-116	27-AUG-07
WG647270-1	MB							
Mercury (Hg)			<0.0050		mg/kg		0.005	27-AUG-07
WG647270-2	MB							
Mercury (Hg)			<0.0050		mg/kg		0.005	27-AUG-07
MET-CSR-FULL-ICP-VA Soil								
Batch	R565837							
WG647270-3	CRM	VA-CANMET-TILL1						
Arsenic (As)			98		%		94-106	24-AUG-07
Barium (Ba)			13		%		11-14	24-AUG-07
Beryllium (Be)			21		%		18-22	24-AUG-07
Chromium (Cr)			41		%		39-50	24-AUG-07
Cobalt (Co)			72		%		67-77	24-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-CSR-FULL-ICP-VA		Soil						
Batch	R565837							
WG647270-3	CRM	VA-CANMET-TILL1						
Copper (Cu)			105		%		93-112	24-AUG-07
Nickel (Ni)			67	G	%		71-83	24-AUG-07
Vanadium (V)			61		%		53-68	24-AUG-07
Zinc (Zn)			72		%		66-81	24-AUG-07
WG647270-4	CRM	VA-NRC-PACS2						
Arsenic (As)			109		%		91-115	24-AUG-07
Beryllium (Be)			15		%		10-20	24-AUG-07
Cadmium (Cd)			90		%		80-148	24-AUG-07
Chromium (Cr)			50	G	%		52-58	24-AUG-07
Cobalt (Co)			73		%		70-79	24-AUG-07
Copper (Cu)			107		%		95-115	24-AUG-07
Lead (Pb)			87		%		85-109	24-AUG-07
Nickel (Ni)			74	G	%		74-88	24-AUG-07
Tin (Sn)			105		%		97-115	24-AUG-07
Vanadium (V)			58		%		56-64	24-AUG-07
Zinc (Zn)			92		%		89-107	24-AUG-07
WG647270-1	MB							
Antimony (Sb)			<10		mg/kg		10	24-AUG-07
Arsenic (As)			<5.0		mg/kg		5	24-AUG-07
Barium (Ba)			<1.0		mg/kg		1	24-AUG-07
Beryllium (Be)			<0.50		mg/kg		0.5	24-AUG-07
Cadmium (Cd)			<0.50		mg/kg		0.5	24-AUG-07
Chromium (Cr)			<2.0		mg/kg		2	24-AUG-07
Cobalt (Co)			<2.0		mg/kg		2	24-AUG-07
Copper (Cu)			<1.0		mg/kg		1	24-AUG-07
Lead (Pb)			<30		mg/kg		30	24-AUG-07
Molybdenum (Mo)			<4.0		mg/kg		4	24-AUG-07
Nickel (Ni)			<5.0		mg/kg		5	24-AUG-07
Selenium (Se)			<2.0		mg/kg		2	24-AUG-07
Silver (Ag)			<2.0		mg/kg		2	24-AUG-07
Tin (Sn)			<5.0		mg/kg		5	24-AUG-07
Vanadium (V)			<2.0		mg/kg		2	24-AUG-07
Zinc (Zn)			<1.0		mg/kg		1	24-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-CSR-FULL-ICP-VA Soil								
Batch	R565837							
WG647270-2	MB							
Antimony (Sb)			<10		mg/kg		10	24-AUG-07
Arsenic (As)			<5.0		mg/kg		5	24-AUG-07
Barium (Ba)			<1.0		mg/kg		1	24-AUG-07
Beryllium (Be)			<0.50		mg/kg		0.5	24-AUG-07
Cadmium (Cd)			<0.50		mg/kg		0.5	24-AUG-07
Chromium (Cr)			<2.0		mg/kg		2	24-AUG-07
Cobalt (Co)			<2.0		mg/kg		2	24-AUG-07
Copper (Cu)			<1.0		mg/kg		1	24-AUG-07
Lead (Pb)			<30		mg/kg		30	24-AUG-07
Molybdenum (Mo)			<4.0		mg/kg		4	24-AUG-07
Nickel (Ni)			<5.0		mg/kg		5	24-AUG-07
Selenium (Se)			<2.0		mg/kg		2	24-AUG-07
Silver (Ag)			<2.0		mg/kg		2	24-AUG-07
Tin (Sn)			<5.0		mg/kg		5	24-AUG-07
Vanadium (V)			<2.0		mg/kg		2	24-AUG-07
Zinc (Zn)			<1.0		mg/kg		1	24-AUG-07
Batch	R566382							
WG646543-3	CRM	VA-CANMET-TILL1						
Arsenic (As)			93	G	%		94-106	27-AUG-07
Barium (Ba)			13		%		11-14	27-AUG-07
Beryllium (Be)			22		%		18-22	27-AUG-07
Chromium (Cr)			40		%		39-50	27-AUG-07
Cobalt (Co)			68		%		67-77	27-AUG-07
Copper (Cu)			102		%		93-112	27-AUG-07
Nickel (Ni)			67	G	%		71-83	27-AUG-07
Vanadium (V)			63		%		53-68	27-AUG-07
Zinc (Zn)			71		%		66-81	27-AUG-07
WG646543-4	CRM	VA-NRC-PACS2						
Arsenic (As)			111		%		91-115	27-AUG-07
Beryllium (Be)			17		%		10-20	27-AUG-07
Cadmium (Cd)			102		%		80-148	27-AUG-07
Chromium (Cr)			56		%		52-58	27-AUG-07
Cobalt (Co)			77		%		70-79	27-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-CSR-FULL-ICP-VA	Soil							
Batch	R566382							
WG646543-4	CRM	VA-NRC-PACS2						
Copper (Cu)			111		%		95-115	27-AUG-07
Lead (Pb)			106		%		85-109	27-AUG-07
Nickel (Ni)			83		%		74-88	27-AUG-07
Tin (Sn)			111		%		97-115	27-AUG-07
Vanadium (V)			66	G	%		56-64	27-AUG-07
Zinc (Zn)			104		%		89-107	27-AUG-07
WG646543-1	MB							
Antimony (Sb)			<10		mg/kg		10	27-AUG-07
Arsenic (As)			<5.0		mg/kg		5	27-AUG-07
Barium (Ba)			<1.0		mg/kg		1	27-AUG-07
Beryllium (Be)			<0.50		mg/kg		0.5	27-AUG-07
Cadmium (Cd)			<0.50		mg/kg		0.5	27-AUG-07
Chromium (Cr)			<2.0		mg/kg		2	27-AUG-07
Cobalt (Co)			<2.0		mg/kg		2	27-AUG-07
Copper (Cu)			<1.0		mg/kg		1	27-AUG-07
Lead (Pb)			<30		mg/kg		30	27-AUG-07
Molybdenum (Mo)			<4.0		mg/kg		4	27-AUG-07
Nickel (Ni)			<5.0		mg/kg		5	27-AUG-07
Selenium (Se)			<2.0		mg/kg		2	27-AUG-07
Silver (Ag)			<2.0		mg/kg		2	27-AUG-07
Tin (Sn)			<5.0		mg/kg		5	27-AUG-07
Vanadium (V)			<2.0		mg/kg		2	27-AUG-07
Zinc (Zn)			<1.0		mg/kg		1	27-AUG-07
WG646543-2	MB							
Antimony (Sb)			<10		mg/kg		10	27-AUG-07
Arsenic (As)			<5.0		mg/kg		5	27-AUG-07
Barium (Ba)			<1.0		mg/kg		1	27-AUG-07
Beryllium (Be)			<0.50		mg/kg		0.5	27-AUG-07
Cadmium (Cd)			<0.50		mg/kg		0.5	27-AUG-07
Chromium (Cr)			<2.0		mg/kg		2	27-AUG-07
Cobalt (Co)			<2.0		mg/kg		2	27-AUG-07
Copper (Cu)			<1.0		mg/kg		1	27-AUG-07
Lead (Pb)			<30		mg/kg		30	27-AUG-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-CSR-FULL-ICP-VA	Soil							
Batch	R566382							
WG646543-2 MB								
Molybdenum (Mo)			<4.0		mg/kg		4	27-AUG-07
Nickel (Ni)			<5.0		mg/kg		5	27-AUG-07
Selenium (Se)			<2.0		mg/kg		2	27-AUG-07
Silver (Ag)			<2.0		mg/kg		2	27-AUG-07
Tin (Sn)			<5.0		mg/kg		5	27-AUG-07
Vanadium (V)			<2.0		mg/kg		2	27-AUG-07
Zinc (Zn)			<1.0		mg/kg		1	27-AUG-07
MOISTURE-VA	Soil							
Batch	R564832							
WG646718-1 DUP		L544316-13						
% Moisture		22.7	22.9		%	0.62	30	23-AUG-07
PSA-PIPET-DETAIL-SK	Soil							
Batch	R567039							
WG648581-1 DUP		L544316-13						
% Gravel (>2mm)		5	5	J	%	0	4	28-AUG-07
% Sand (2.00mm - 1.00mm)		1	2	J	%	1	4	28-AUG-07
% Sand (1.00mm - 0.50mm)		5	6	J	%	1	4	28-AUG-07
% Sand (0.50mm - 0.25mm)		6	5	J	%	1	4	28-AUG-07
% Sand (0.25mm - 0.125mm)		3	3	J	%	0	4	28-AUG-07
% Sand (0.125mm - 0.063mm)		3	2	J	%	0	4	28-AUG-07
% Silt (0.063mm - 0.0312mm)		7	7	J	%	0	4	28-AUG-07
% Silt (0.0312mm - 0.004mm)		20	20	J	%	1	5	28-AUG-07
% Clay (<4um)		51	51	J	%	0	5	28-AUG-07
TL-CSR-MS-VA	Soil							
Batch	R567328							
WG646543-1 MB								
Thallium (Tl)			<1.0		mg/kg		1	29-AUG-07
WG646543-2 MB								
Thallium (Tl)			<1.0		mg/kg		1	29-AUG-07
WG647270-1 MB								
Thallium (Tl)			<1.0		mg/kg		1	29-AUG-07
WG647270-2 MB								
Thallium (Tl)			<1.0		mg/kg		1	29-AUG-07

ALS Laboratory Group Quality Control Report

Workorder: L544316

Report Date: 10-SEP-07

Page 23 of 23

Legend:

Limit 99% Confidence Interval (Laboratory Control Limits)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Qualifier:

RPD-NA Relative Percent Difference Not Available due to result(s) being less than detection limit.
A Method blank exceeds acceptance limit. Blank correction not applied, unless the qualifier "RAMB" (result adjusted for method blank) appears in the Analytical Report.
B Method blank result exceeds acceptance limit, however, it is less than 5% of sample concentration. Blank correction not applied.
E Matrix spike recovery may fall outside the acceptance limits due to high sample background.
F Silver recovery low, likely due to elevated chloride levels in sample.
G Outlier - No assignable cause for nonconformity has been determined.
J Duplicate results and limit(s) are expressed in terms of absolute difference.
K The sample referenced above is of a non-standard matrix type; standard QC acceptance criteria may not be achievable.
L Low matrix spike recovery due to instability of spiked analyte in the sample matrix.



ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

12 - 1329 Niakwa Road East
Winnipeg, Manitoba, Canada R2J 3T4
Tel: (204) 255-9720
Fax (204) 255-9721
Toll Free: 1-800-607-7555

**CHAIN OF CUSTODY
ANALYTICAL REQUEST FORM**

1544316

DATE SUBMITTED: Aug 16 / 2007 DATE REQUIRED:

SERVICE REQUESTED:

REGULAR PRIORITY (50% SURCHARGE) EMERGENCY (100% SURCHARGE)

PRICING (CHECK ONE):
AS PER QUOTE #:
AS PER LIST PRICE:

ANALYSIS REQUESTED:
LAB USE ONLY

SAMPLE RECEIVED (Y OR N)
SAMPLE BROKEN (Y OR N)

SAMPLE ID	SAMPLED BY	DATE / TIME SAMPLED	SAMPLE TYPE	LAB SAMPLE NO.
Aug-DUP1	JP/CB	Aug 16 / 07	Sediment	
MRW1		/ /		
MRW2		/ /		
MRW3		/ /		
WRW1		/ /		
OCW1		/ /		
OCW2		/ /		
OCW3		/ /		
WRW1		/ /		
WRW2		/ /		

NOTES & CONDITIONS:

1. Quote number must be provided to ensure proper pricing.

2. All hazardous samples submitted must be labeled to comply with WHMIS regulations. This must include the nature of the hazard, as well as a contact name and phone number that the lab can contact for further information.

3. ALS's liability limited to cost of analysis

NOTE: Failure to properly complete all portions of this form may delay analysis

NOTE: Shaded areas MUST be completed in full by client for sample processing to occur.

CLIENT: URS
CONTACT: Keith Mountjoy
REPORT ADDRESS: 650 West Georgia St, Vancouver, BC
BILLING ADDRESS: Same
ALS Contact: Jerry Holz

NO. SAMPLES SUBMITTED: 18
NO. BOTTLES/SAMPLES: 2 per X 8 sites 1 jar X 2 (1 site + DUP)
PHONE: 604 6811672
FAX: 604 687 3446

E-MAIL: YES NO
E-MAIL ADDRESS: James-phibos@wscorp.com
chris-f-brown@
Keith-Mountjoy@
PO. NO.:
JOB NO.: 39548827

RELINQUISHED BY: James Phibos
DATE: 08/16/07
TIME: 17:30
RECEIVED BY: H.D
ALS LAB: 1908
DATE: 07/08/21
TIME: 8:29

SAMPLE CONDITION UPON RECEIPT: ACCEPTABLE NON ACCEPTABLE
FROZEN: COLD: AMBIENT:
OTHER (BREAKAGE, LEAKAGE, ETC.):

WHITE - File Copy
GREEN - Final Report
PINK - Invoicing
BLUE - Client Support
YELLOW - Customer

APPENDIX L7.7-D3

Certified Laboratory Reports for Sediments

2008 Results (May 2008)

L7.7-73

Client : Bodycote Essais de matériaux
Projet : Essais en laboratoire Bodycote 2008; Essais en laboratoire
Endroit : 1818, route de l'Aéroport □
Québec (Québec) G2G 2P8

Dossier : P018276-0500
Réf. client :
CT-019366
Rapport n° : 22 **Rév. 0**
Page 1 de 1

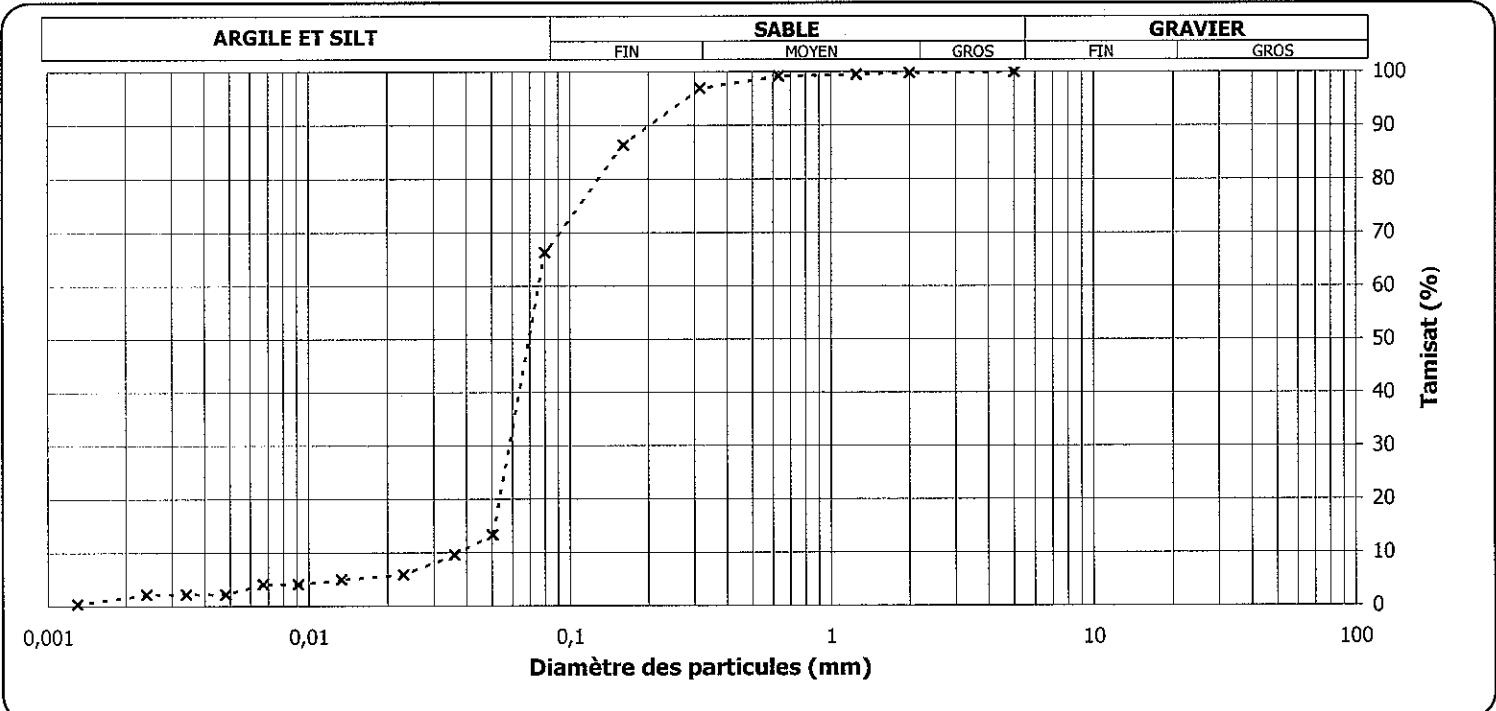
ÉCHANTILLONNAGE

Provenance :
N° d'échantillon : 22 **N° d'échantillon client :** 1184152 **Échantillonné par :** le client
Matériau : **Date d'échantillonnage :** 2008-05-06
Profondeur : **Date de réception :** 2008-05-21
Localisation : Minago project **Densité relative des particules < 2 mm :** 2,700 (estimé)

Analyse granulométrique (LC 21-040)		Analyse sédimentométrique (NQ 2501-025)	
Tamis	Tamisé (%)	Diamètre équivalent	Tamisé (%)
112 mm			
80 mm			
56 mm		50,3 µm	13,3
40 mm		36,0 µm	9,6
31,5 mm		23,0 µm	5,9
20 mm		13,3 µm	5,0
14 mm		9,1 µm	4,1
10 mm		6,7 µm	4,1
5 mm	100	4,8 µm	2,2
2 mm	100	3,4 µm	2,2
1,25 mm	100	2,4 µm	2,2
0,630 mm	99	1,3 µm	0,4
0,315 mm	97		
0,160 mm	86		
0,080 mm	66,3		

AUTRES ESSAIS	MESURÉ

REMARQUES
Gravier (>2 mm) : 000.0 %, Sable grossier (<2 mm et > 0.2 mm) : 11.2 %
Sable fin (< 0.2 mm et > 0.06 mm) : 58.2 %
Limon (>0.06 mm et < 0.004 mm) : 28.4 %, Argile et colloïde (< 0.004 mm) : 2.2 %
Proportion selon analyse (%)
Cailloux : 0,0 Sable : 33,7
Gravier : 0,0 Silt : 64,8
Argile : 1,5



Préparé par : Sylvie Hamel, Chef laboratoire
Date : 2008-06-02

Approuvé par : Georges Lemieux, ing.
Date : 19/06/08

Client : Bodycote Essais de matériaux
Projet : Essais en laboratoire Bodycote 2008; Essais en laboratoire
Endroit : 1818, route de l'Aéroport ☐
Québec (Québec) G2G 2P8

Dossier : P018276-0500
Réf. client :
CT-019366
Rapport n° : 23 Rév. 0
Page 1 de 1

ÉCHANTILLONNAGE

Provenance :
N° d'échantillon : 23 **N° d'échantillon client :** 1184153 **Échantillonné par :** le client
Matériau : **Date d'échantillonnage :** 2008-05-06
Profondeur : **Date de réception :** 2008-05-21
Localisation : Minago project **Densité relative des particules < 2 mm :** 2,700 (estimé)

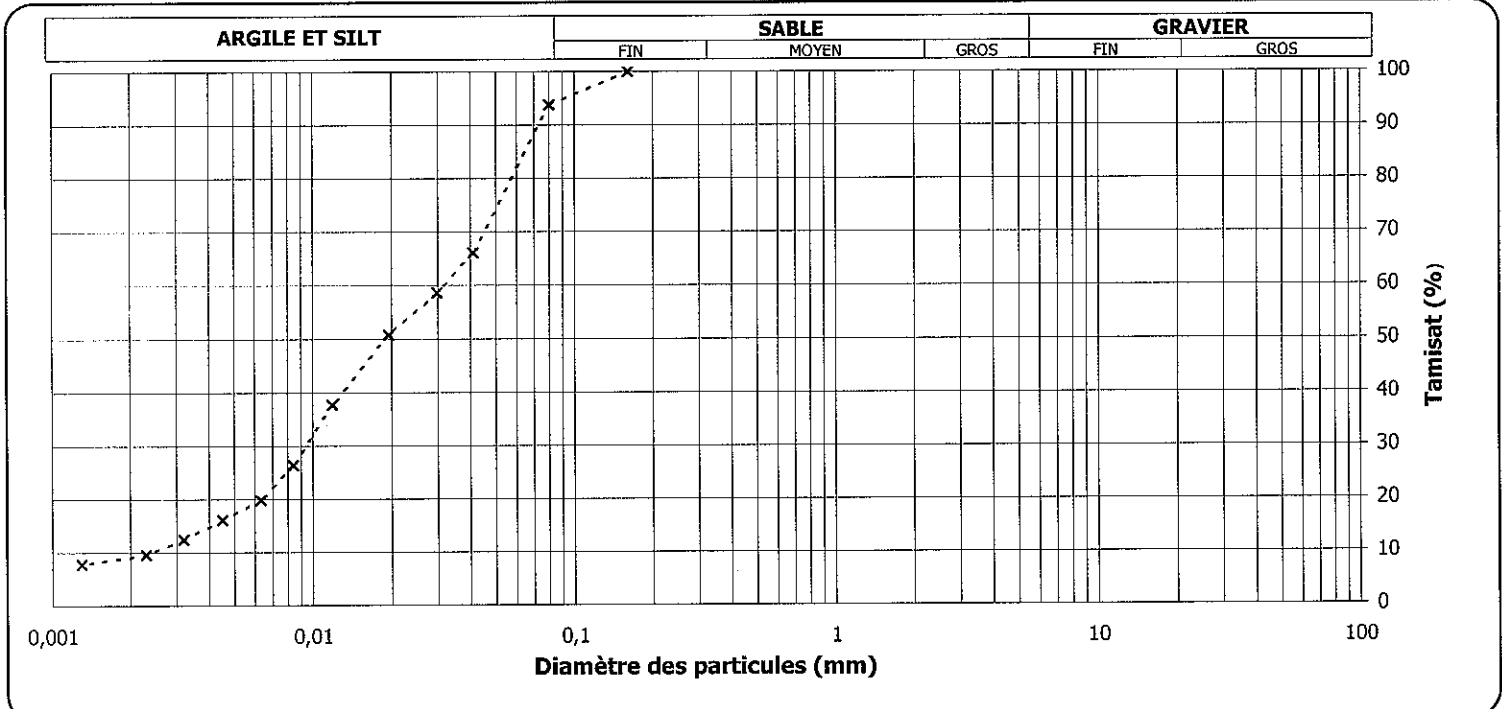
Analyse granulométrique (LC 21-040)		Analyse sédimentométrique (NQ 2501-025)	
Tamis	Tamisé (%)	Diamètre équivalent	Tamisé (%)
112 mm			
80 mm			
56 mm		40,9 µm	66,0
40 mm		29,8 µm	58,6
31,5 mm		19,5 µm	50,8
20 mm		11,9 µm	37,7
14 mm		8,4 µm	26,4
10 mm		6,3 µm	19,8
5 mm		4,5 µm	16,1
2 mm		3,2 µm	12,4
1,25 mm		2,3 µm	9,6
0,630 mm		1,3 µm	7,8
0,315 mm			
0,160 mm	100		
0,080 mm	93,8		

AUTRES ESSAIS	MESURÉ

REMARQUES

Gravier (>2 mm) : 000.0 %, Sable grossier (<2 mm et > 0.2 mm) : 00.00 %
Sable fin (< 0.2 mm et > 0.06 mm) : 20.4 %
Limon (>0.06 mm et < 0.004 mm) : 64.9 %, Argile et colloïde (< 0.004 mm) : 14.7 %

Proportion selon analyse (%)	
Sable :	6,2
Cailloux :	0,0
Gravier :	0,0
Silt :	84,7
Argile :	9,1



Préparé par : Sylvie Hamel, Chef laboratoire
Date : 2008-06-02

Approuvé par : *Georges Lemieux*
Date : 09/06/08
Georges Lemieux, ing.

Client : Bodycote Essais de matériaux
Projet : Essais en laboratoire Bodycote 2008; Essais en laboratoire
Endroit : 1818, route de l'Aéroport □
Québec (Québec) G2G 2P8

Dossier : P018276-0500
Réf. client :
CT-019366
Rapport n° : 24 Rév. 0
Page 1 de 1

ÉCHANTILLONNAGE

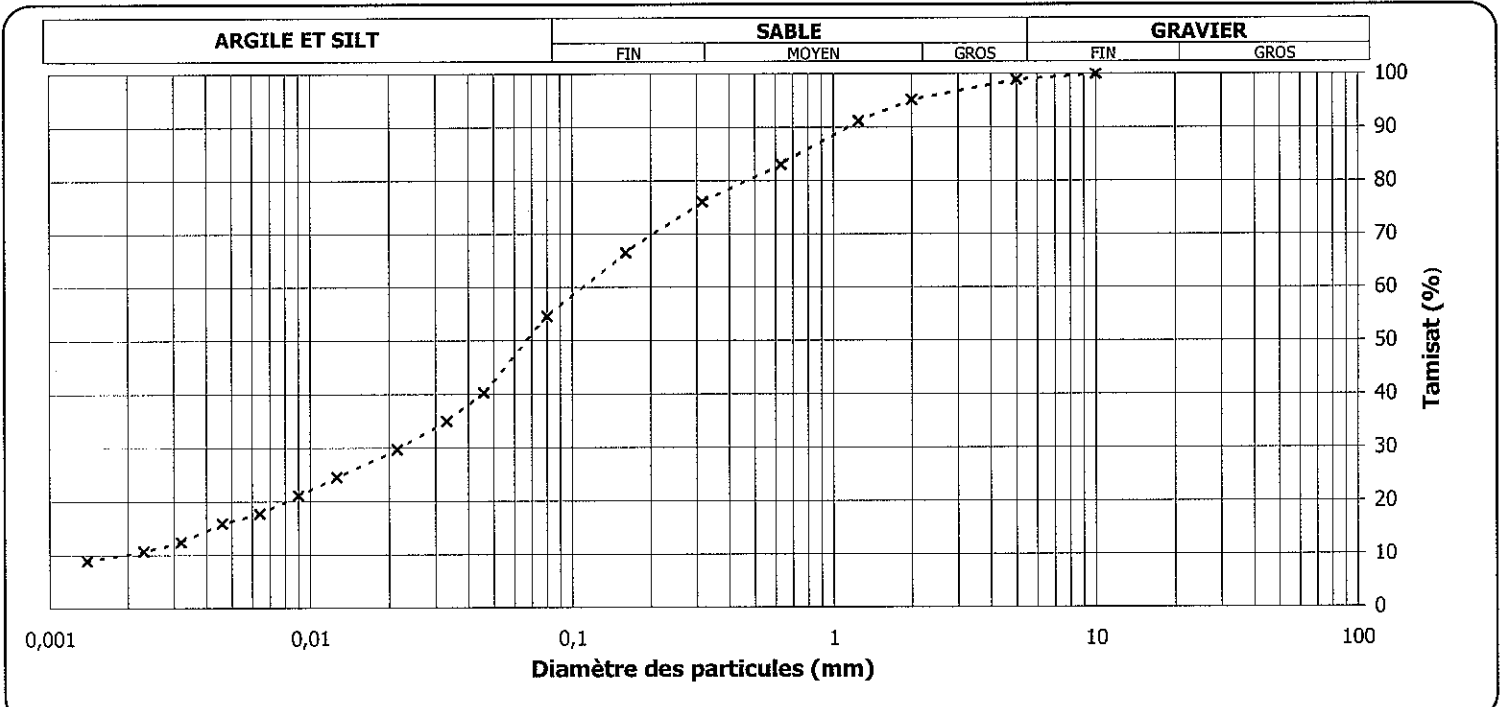
Provenance :
N° d'échantillon : 24 **N° d'échantillon client :** 1184154 **Échantillonné par :** le client
Matériau : **Date d'échantillonnage :** 2008-05-08
Profondeur : **Date de réception :** 2008-05-21
Localisation : Minago projectc **Densité relative des particules < 2 mm :** 2,700 (estimé)

Analyse granulométrique (LC 21-040)		Analyse sédimentométrique (NQ 2501-025)	
Tamais	Tamisat (%)	Diamètre équivalent	Tamisat (%)
112 mm			
80 mm			
56 mm		45,8 µm	40,3
40 mm		33,1 µm	35,0
31,5 mm		21,4 µm	29,7
20 mm		12,6 µm	24,5
14 mm		9,0 µm	21,1
10 mm	100	6,4 µm	17,7
5 mm	99	4,6 µm	15,9
2 mm	95	3,2 µm	12,4
1,25 mm	91	2,3 µm	10,7
0,630 mm	83	1,4 µm	8,9
0,315 mm	76		
0,160 mm	67		
0,080 mm	54,5		

AUTRES ESSAIS	MESURÉ

REMARQUES
Gravier (>2 mm) : 7.4 %, Sable gorssier (<2 mm et > 0.2 mm) : 23.3 %
Sable fin (< 0.2 mm et > 0.06 mm):23.1 %
Limon (>0.06 mm et <0.004 mm) :31.8 %, Argile et colloide (<0.004 mm) : 14.4%

Proportion selon analyse (%)	
Sable :	44,4
Cailloux :	0,0
Silt :	44,4
Gravier :	1,1
Argile :	10,1



Préparé par : Sylvie Hamel, Chef laboratoire
Date : 2008-06-02

Approuvé par : *Georges Lemieux*
Date : 07/06/08
Georges Lemieux, ing.

Client : Bodycote Essais de matériaux
Projet : Essais en laboratoire Bodycote 2008; Essais en laboratoire
Endroit : 1818, route de l'Aéroport
Québec (Québec) G2G 2P8

Dossier : P018276-0500
Réf. client :
CT-019366
Rapport n° : 25 Rév. 0
Page 1 de 1

ÉCHANTILLONNAGE

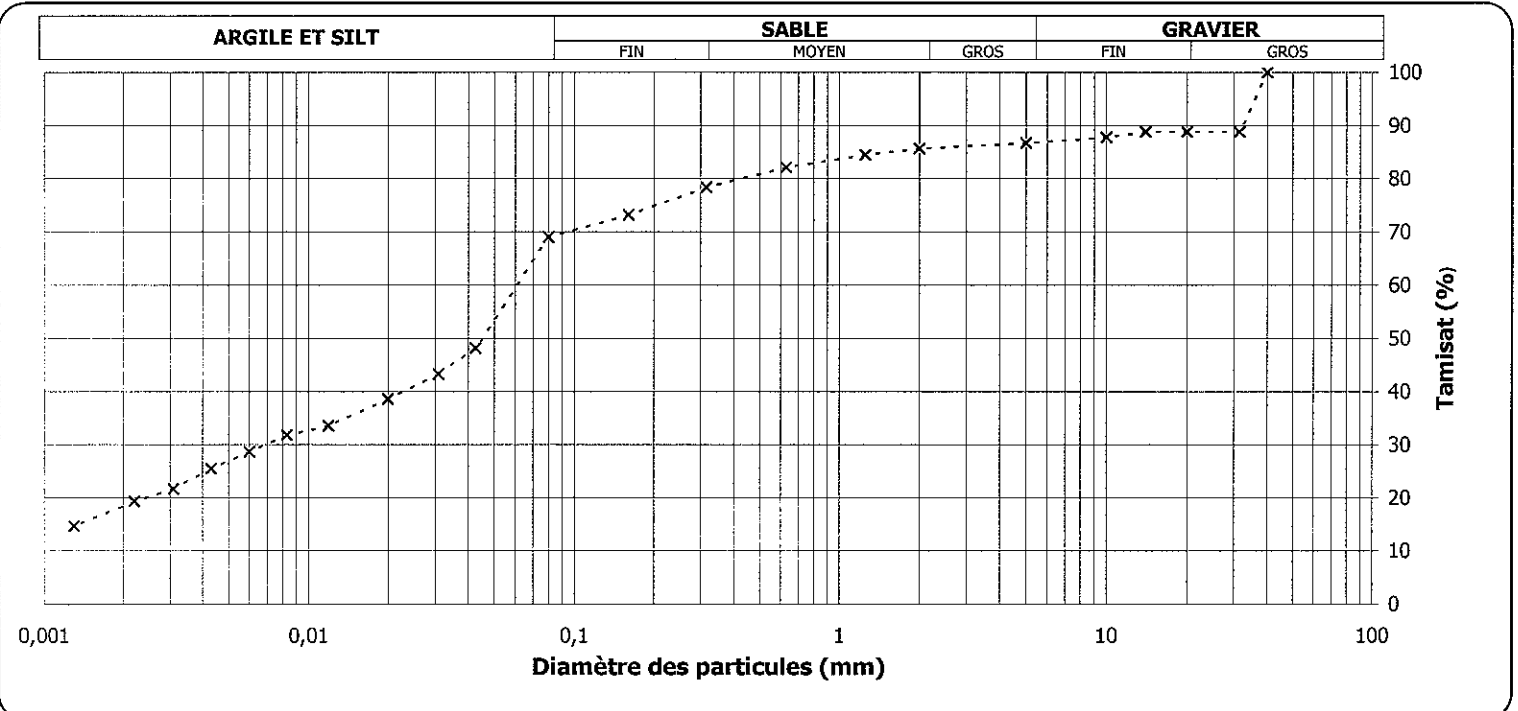
Provenance :
N° d'échantillon : 25 N° d'échantillon client : 1184155 Échantillonné par : le client
Matériau : Date d'échantillonnage : 2008-05-08
Profondeur : Date de réception : 2008-05-21
Localisation : Minago project Densité relative des particules < 2 mm : 2,700 (estimé)

Analyse granulométrique (LC 21-040)		Analyse sédimentométrique (NQ 2501-025)	
Tamis	Tamisat (%)	Diamètre équivalent	Tamisat (%)
112 mm			
80 mm			
56 mm		42,5 µm	48,2
40 mm	100	30,8 µm	43,3
31,5 mm	89	19,9 µm	38,6
20 mm	89	11,9 µm	33,6
14 mm	89	8,3 µm	31,8
10 mm	88	6,0 µm	28,7
5 mm	87	4,3 µm	25,5
2 mm	86	3,1 µm	21,7
1,25 mm	85	2,2 µm	19,3
0,630 mm	82	1,3 µm	14,6
0,315 mm	78		
0,160 mm	73		
0,080 mm	69,0		

AUTRES ESSAIS	MESURÉ

REMARQUES
Gravier (>2 mm) : 14.0 %, Sable grossier (<2 mm et > 0.2 mm) : 11.7 %
Sable fin (< 0.2 mm et > 0.06 mm) : 16.2 %
Limon (>0.06 mm et <0.004 mm) : 33.5 %, Argile et colloïde (<0.004 mm) : 24.6%

Proportion selon analyse (%)	
Sable :	17,7
Cailloux :	0,0
Silt :	50,7
Gravier :	13,3
Argile :	18,3



Préparé par : Sylvie Hamel, Chef laboratoire
Date : 2008-06-02

Approuvé par : Georges Lemieux, ing.
Date : 19/06/08

Client : Bodycote Essais de matériaux
Projet : Essais en laboratoire Bodycote 2008; Essais en laboratoire
Endroit : 1818, route de l'Aéroport □
Québec (Québec) G2G 2P8

Dossier : P018276-0500
Réf. client :
CT-019366
Rapport n° : 26 Rév. 0
Page 1 de 1

ÉCHANTILLONNAGE

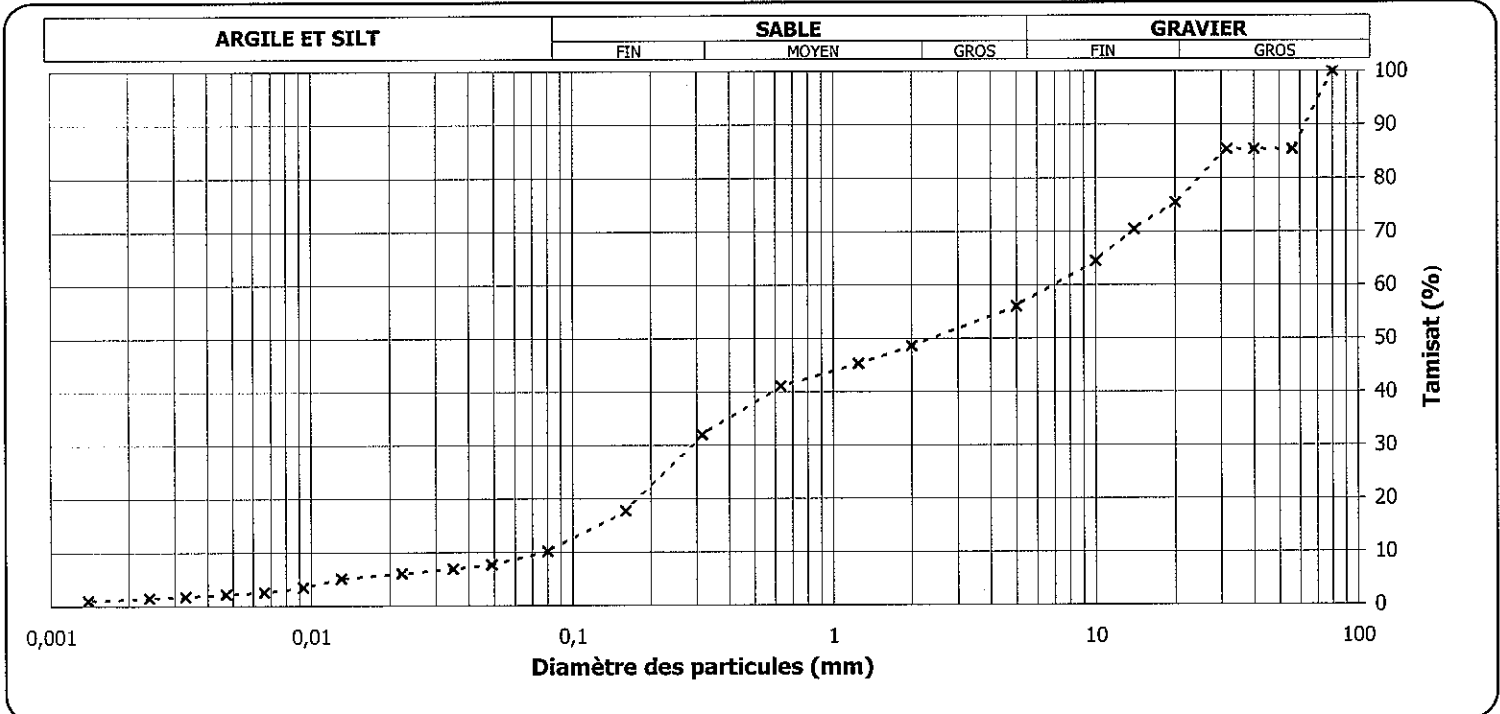
Provenance :
N° d'échantillon : 26 **N° d'échantillon client :** 1184156 **Échantillonné par :** le client
Matériau : **Date d'échantillonnage :** 2008-05-08
Profondeur : **Date de réception :** 2008-05-21
Localisation : Minago project **Densité relative des particules < 2 mm :** 2,700 (estimé)

Analyse granulométrique (LC 21-040)		Analyse sédimentométrique (NQ 2501-025)	
Tamais	Tamaisat (%)	Diamètre équivalent	Tamaisat (%)
112 mm			
80 mm	100		
56 mm	85	49,0 µm	7,7
40 mm	85	34,9 µm	6,9
31,5 mm	85	22,2 µm	6,1
20 mm	76	13,0 µm	5,1
14 mm	71	9,3 µm	3,5
10 mm	65	6,6 µm	2,6
5 mm	56	4,7 µm	2,2
2 mm	49	3,3 µm	1,8
1,25 mm	45	2,4 µm	1,5
0,630 mm	41	1,4 µm	1,0
0,315 mm	32		
0,160 mm	18		
0,080 mm	10,2		

AUTRES ESSAIS	MESURÉ

REMARQUES
Gravier (>2 mm) : 51.0%, Sable grossier (<2 mm et > 0.2 mm) : 27.4%
Sable fin (< 0.2 mm et > 0.06 mm):13.0 %
Limon (>0.06 mm et < 0.004 mm) :6.6 %, Argile et colloïde (< 0.004 mm) : 2.0 %

Proportion selon analyse (%)	
Sable :	45,8
Cailloux :	0,0
Silt :	8,9
Gravier :	44,0
Argile :	1,3



Préparé par : Sylvie Hamel, Chef laboratoire
Date : 2008-06-02

Approuvé par : *Georges Lemieux*
Date : 19/06/08
Georges Lemieux, ing.

Certificat d'analyse

Numéro de demande d'analyse: **08-300631**

Demande d'analyse reçue le: 2008-05-22

Date d'émission du certificat: 2008-06-02

Numéro de version du certificat: 1

- Certificat d'analyse officiel
 Certificat d'analyse préliminaire

Requérant

Bodycote Groupe d'Essais

1818 RTE DE L'AEROPORT
SAINTE-FOY, Québec, Canada
G2G 2P8
Téléphone : (418) 871-8722

Bon de commande	Votre Projet	Chargé de Projet
CT-019365	Minago project	MATHIEU MONGRAIN

Commentaires

Cette version remplace et annule toute version antérieure, le cas échéant.

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Numéro de demande: 08-300631

Client: **Bodycote Groupe d'Essais**

Bon de commande	Votre Projet	Chargé de Projet
CT-019365	Minago project	MATHIEU MONGRAIN

Échantillon(s)

No Labo.	1440216	1440217	1440218	1440219
Votre Référence	LBF-1 259707-1184152	HLF-1 259707-1184153	OCF-1 259707-1184154	MRF-3 259707-1184155
Matrice	Sédiment	Sédiment	Sédiment	Sédiment
Prélevé par	NA	NA	NA	NA
Lieu de prélèvement	NA	NA	NA	NA
Prélevé le	2008-05-06	2008-05-06	2008-05-08	2008-05-08
Reçu Labo	2008-05-22	2008-05-22	2008-05-22	2008-05-22

Paramètre(s)

Méthode	Préparation	2008-05-27	2008-05-27	2008-05-27	2008-05-27
Carbone organique total	Préparation	2008-05-27	2008-05-27	2008-05-27	2008-05-27
Détermination du soufre et du carbone total, organique et inorganique par Leco.	Analyse	2008-05-27	2008-05-27	2008-05-27	2008-05-27
12-75-03 (REF: Leco). Résultats sur poids sec.	No. séquence	148527	148527	148527	148527
Carbone organique total	%	23.3	2.57	19.4	3.82

Numéro de demande: **08-300631**

Client: **Bodycote Groupe d'Essais**

Bon de commande	Votre Projet	Chargé de Projet
CT-019365	Minago project	MATHIEU MONGRAIN

Échantillon(s)

No Labo.	1440220
Votre Référence	WRF-3 259707-1184156
Matrice	Sédiment
Prélevé par	NA
Lieu de prélèvement	NA
Prélevé le	2008-05-08
Reçu Labo	2008-05-22

Paramètre(s)


Méthode
Référence


Carbone organique total	Préparation	2008-05-27
Détermination du soufre et du carbone total, organique et inorganique par Leco.	Analyse	2008-05-27
12-75-03 (REF: Leco). Résultats sur poids sec.	No. séquence	148527
Carbone organique total	%	0.74

Commentaires:

1440216 LBF-1 259707-1184152 Carbone organique total: Duplicata non conforme. Échantillon non homogène.

Note: Ces résultats et commentaires, le cas échéant, ne se rapportent qu'aux échantillons soumis pour l'analyse des paramètres ci-dessus mentionné


David Cajolet, chimiste



Certificat d'analyse

Numéro de demande: **08-300631**

Client: **Bodycote Groupe d'Essais**

Bon de commande	Votre Projet	Chargé de Projet
CT-019365	Minago project	MATHIEU MONGRAIN

Résultats du Contrôle de Qualité (CQ)

Paramètres (No.Séquence)	Unité	LDR	Blanc	Contrôle certifié	
				Obtenu	Attendu (Intervalle)
Carbone organique total No Séquence: 148527					
Carbone organique total	%	< 0.01	< 0.01	4.51	3.52 - 5.28

Commentaires CQ

LDR : Limite de détection rapportée

Annexe 1 du certificat no.229496 - Page 1 de 1

Certificat d'analyse

Numéro de demande: **08-300631**

Client: **Bodycote Groupe d'Essais**

Bon de commande	Votre Projet	Chargé de Projet
CT-019365	Minago project	MATHIEU MONGRAIN

Résultats du Contrôle de Qualité (CQ) - 2e partie

Paramètres (No.Séquence)	Unité	Duplicata		Écart (%)
		Valeur 1	Valeur 2	
Carbone organique total				
No Séquence: 148527	(No éch)		(1440216)	
Carbone organique total	%	23.3	13.6	52.6

Commentaires CQ

Annexe 2 du certificat no.229496 - Page 1 de 1

Client : Bodycote Essais de matériaux	Dossier : P018276-0500
Projet : Essais en laboratoire Bodycote 2008; Essais en laboratoire	Réf. client :
	CT-019438
Endroit : 1818, route de l'Aéroport ☐ Québec (Québec) G2G 2P8	Rapport n° : 28 Rév. 0
	Page 1 de 1

ÉCHANTILLONNAGE

Provenance :	N° d'échantillon : 28	N° d'échantillon client : 261093	Échantillonné par : le client
Matériau :	Date d'échantillonnage : 2008-05-09		
Profondeur :	Date de réception : 2008-05-30		
Localisation : Manitoba	Densité relative des particules < 2 mm : 2,700 (estimé)		

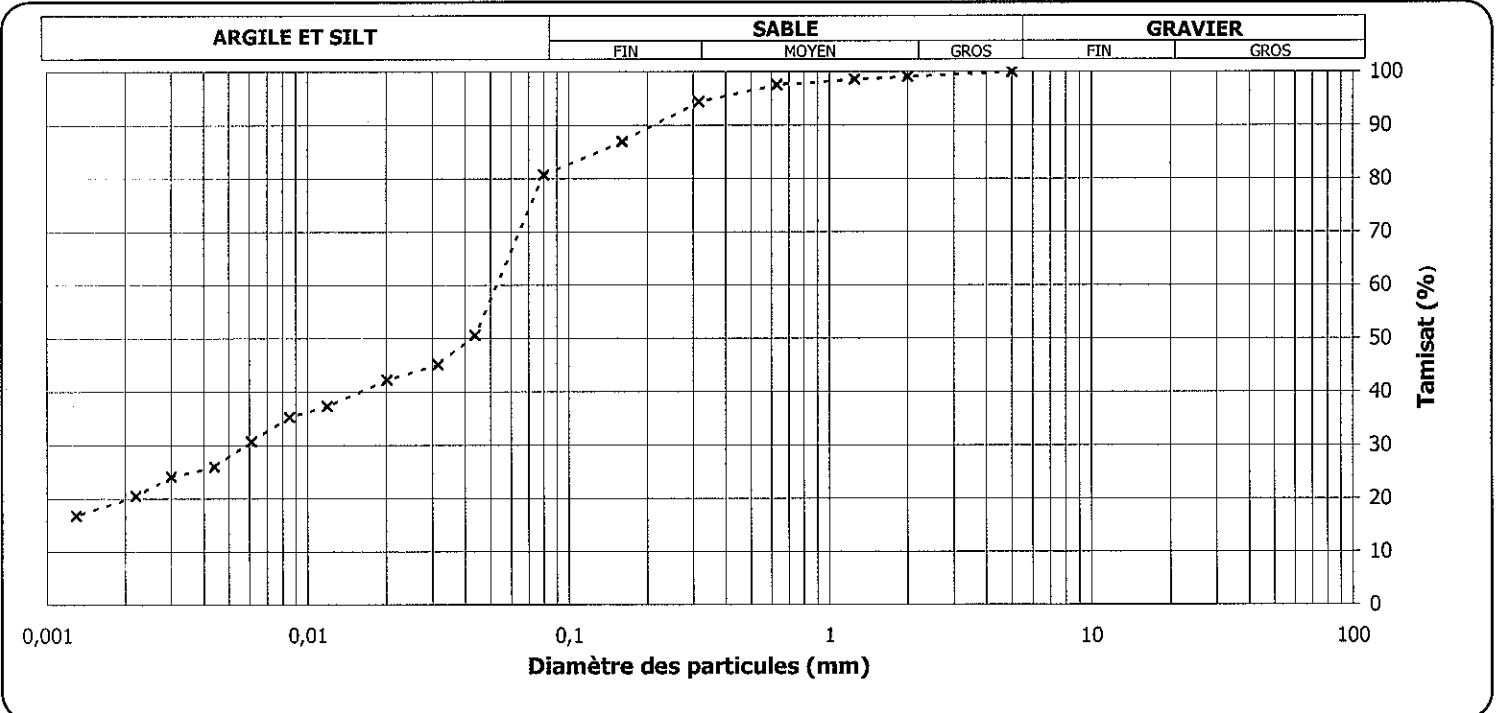
Analyse granulométrique (LC 21-040)		Analyse sédimentométrique (NQ 2501-025)	
Tamis	Tamisé (%)	Diamètre équivalent	Tamisé (%)
112 mm			
80 mm			
56 mm		43,6 µm	50,6
40 mm		31,5 µm	45,1
31,5 mm		20,1 µm	42,2
20 mm		11,9 µm	37,3
14 mm		8,5 µm	35,3
10 mm		6,1 µm	30,7
5 mm	100	4,4 µm	26,0
2 mm	99	3,0 µm	24,1
1,25 mm	99	2,2 µm	20,5
0,630 mm	98	1,3 µm	16,8
0,315 mm	94		
0,160 mm	87		
0,080 mm	80,7		

AUTRES ESSAIS	MESURÉ

REMARQUES

Gravier (>2 mm) : 1.0 %, Sable grossier (<2 mm et > 0.2 mm) : 10.2 %
 Sable fin (< 0.2 mm et > 0.06 mm) : 24.6 %
 Limon (>0.06 mm et < 0.004 mm) : 38.7 %, Argile et colloïde (< 0.004 mm) : 25.5 %

Proportion selon analyse (%)		Sable :	19,3
Cailloux :	0,0	Silt :	61,0
Gravier :	0,0	Argile :	19,7



Préparé par : Sylvie Hamel, Chef laboratoire
Date : 2008-06-09

Approuvé par : *Georges Lemieux*
Date : 19/06/08
Georges Lemieux, ing.

Certificat d'analyse

Numéro de demande d'analyse: **08-301287**

Demande d'analyse reçue le: 2008-05-30

Date d'émission du certificat: 2008-06-06

Numéro de version du certificat: 1

- Certificat d'analyse officiel
 Certificat d'analyse préliminaire

Requérant

Bodycote Groupe d'Essais

1818 RTE DE L'AEROPORT
SAINTE-FOY, Québec, Canada
G2G 2P8
Téléphone : (418) 871-8722

Bon de commande	Votre Projet	Chargé de Projet
019437	Minago project 51516-100	MATHIEU MONGRAIN

Commentaires

Cette version remplace et annule toute version antérieure, le cas échéant.

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Numéro de demande: **08-301287**

Client: **Bodycote Groupe d'Essais**

Bon de commande	Votre Projet	Chargé de Projet
019437	Minago project 51516-100	MATHIEU MONGRAIN

Échantillon(s)

No Labo. 1443813
Votre Référence CLF-1/261093-1188980

Matrice Sédiment
Prélevé par NA

Lieu de prélèvement Manitoba

Prélevé le 2008-05-09
Reçu Labo 2008-05-30

Paramètre(s)

Méthode
Référence

Carbone organique total	Préparation	2008-06-02
Détermination du soufre et du carbone total, organique et inorganique par Leco.	Analyse	2008-06-02
12-75-03 (REF: Leco). Résultats sur poids sec.	No. séquence	149017
Carbone organique total	%	1.61

Note: Ces résultats et commentaires, le cas échéant, ne se rapportent qu'aux échantillons soumis pour l'analyse des paramètres ci-dessus mentionné


Caroline Schiltz, chimiste



Certificat d'analyse

Numéro de demande: **08-301287**

Client: **Bodycote Groupe d'Essais**

Bon de commande	Votre Projet	Chargé de Projet
019437	Minago project 51516-100	MATHIEU MONGRAIN

Résultats du Contrôle de Qualité (CQ)

Paramètres (No.Séquence)	Unité	LDR	Blanc	Contrôle certifié	
				Obtenu	Attendu (Intervalle)
Carbone organique total No Séquence: 149017					
Carbone organique total	%	< 0.01	< 0.01	4.46	3.52 - 5.28

Commentaires CQ

LDR : Limite de détection rapportée

Annexe 1 du certificat no.229904 - Page 1 de 1

Bodycote Groupe d'Essais

121 Boul. Hymus • Pointe-Claire • Québec • Canada • H9R 1E6 • Tél: +1 (514) 697-3273 • Fax: +1 (514) 697-2090

Ce certificat ne doit pas être reproduit, sinon en entier, sans l'autorisation écrite du laboratoire. Les échantillons mentionnés plus haut seront conservés pendant 30 jours à partir de la date d'émission du Certificat, à l'exception des paramètres microbiologiques ou selon les instructions écrites du client.

Certificate of Analysis

Request number: 08-261093
Date Received: 2008-05-28
Date Certificate Issued: 2008-06-27
Certificate Version: 1
 Official Certificate of Analysis
 Preliminary Certificate of Analysis

Client

ROCHE GROUPE-CONSEIL

3075, CHEMIN QUATRE-BOURGEOIS (3e étage)
SAINTE-FOY, QUÉBEC, Canada
G1W 4Y4
Telephone : (418) 654-9600
Fax : (418) 654-9699

P.O. Number	Your project ID.	Project Manager
NA	Minago Project 51516-100	M. Marc Rood

Comments

This version replaces and cancels all earlier version.

NA : Information Not Available

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Request Number: 08-261093

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago Project 51516-100	M. Marc Rood

Sample(s)

Lab. No.	1188980
Your Reference	CLF-1
Matrix	Sediment
Sampled by	M. Simon Thibault
Site sampled	Manitoba
Date sampled	2008-05-09
Date received	2008-05-28

Parameter(s)

Method		
Reference		
Arsenic	Preparation	2008-06-10
QC050-02 / acid dig., calcination, hydride generation, AA	Analysis	2008-06-10
Result as per dry weight	Sequential No.	253881
MENVIQ 90.02/204-As1.1		
Arsenic	mg/kg	4.4
Cadmium	Preparation	2008-06-10
Acid digestion, GFAA analysis	Analysis	2008-06-10
Result as per dry weight	Sequential No.	253865
EPA3050,MA200.Met1.0		
Cadmium	mg/kg	0.05
Chromium (Cr)	Preparation	2008-06-09
QC087-07 / acid digestion, ICP analysis	Analysis	2008-06-10
Result as per dry weight	Sequential No.	253844
MA200-Mét 1.1 R3		
Chromium (Cr)	mg/kg	37
Cobalt (Co)	Preparation	2008-06-09
QC087-07 / acid digestion, ICP analysis	Analysis	2008-06-10
Result as per dry weight	Sequential No.	253844
MA200-Mét 1.1 R3		
Cobalt (Co)	mg/kg	13
Copper (Cu)	Preparation	2008-06-09
QC087-07 / acid digestion, ICP analysis	Analysis	2008-06-10
Result as per dry weight	Sequential No.	253844
MA200-Mét 1.1 R3		
Copper (Cu)	mg/kg	16
Iron (Fe)	Preparation	2008-06-09
QC087-07 / acid digestion, ICP analysis	Analysis	2008-06-10
Result as per dry weight	Sequential No.	253844
MA200-Mét 1.1 R3		
Iron (Fe)	mg/kg	24000

Request Number: 08-261093

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago Project 51516-100	M. Marc Rood

Sample(s)

Lab. No.	1188980
Your Reference	CLF-1
Matrix	Sediment
Sampled by	M. Simon Thibault
Site sampled	Manitoba
Date sampled	2008-05-09
Date received	2008-05-28

Parameter(s)

Method
Reference

Lead (Pb)	Preparation	2008-06-09
QC087-07 / acid digestion, ICP analysis	Analysis	2008-06-10
Result as per dry weight	Sequential No.	253844
MA200-Mét 1.1 R3		
Lead (Pb)	mg/kg	11
Loss on ignition (550°C) (Organic matter)	Preparation	2008-06-08
QC047-96 / Calcination (2 hours, 550°C) / MA100 S-T 1.0	Analysis	2008-06-09
Result as per dry weight	Sequential No.	253775
Loss on ignition at 550°C (Organic matter)	%	5
Magnesium (Mg)	Preparation	2008-06-09
QC087-07 / acid digestion, ICP analysis	Analysis	2008-06-10
Result as per dry weight	Sequential No.	253844
MA200-Mét 1.1 R3		
Magnesium (Mg)	mg/kg	14000
Manganese (Mn)	Preparation	2008-06-09
QC087-07 / acid digestion, ICP analysis	Analysis	2008-06-10
Result as per dry weight	Sequential No.	253844
MA200-Mét 1.1 R3		
Manganese (Mn)	mg/kg	560
Mercury	Preparation	2008-06-09
QC068-96 / acid digestion, AA (cold-vapor) analysis	Analysis	2008-06-09
Result as per dry weight MA200 Hg 1.0	Sequential No.	253857
Mercury	mg/kg	0.04
Molybdenum (Mo)	Preparation	2008-06-09
QC087-07 / acid digestion, ICP analysis	Analysis	2008-06-10
Result as per dry weight	Sequential No.	253844
MA200-Mét 1.1 R3		
Molybdenum (Mo)	mg/kg	<1
Nickel (Ni)	Preparation	2008-06-09
QC087-07 / acid digestion, ICP analysis	Analysis	2008-06-10
Result as per dry weight	Sequential No.	253844
MA200-Mét 1.1 R3		

Certificate of Analysis No. 263013 - Revision 1 - Page 3 of 5

Request Number: 08-261093

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago Project 51516-100	M. Marc Rood

Sample(s)

Lab. No.	1188980
Your Reference	CLF-1
Matrix	Sediment
Sampled by	M. Simon Thibault
Site sampled	Manitoba
Date sampled	2008-05-09
Date received	2008-05-28

Parameter(s)

Method		
Reference		
Nickel (Ni)	mg/kg	25
Particle size distribution	Preparation	-
Sub-contracted work	Analysis	-
	Sequential No.	NA
Particle size distribution		Annexe
Sedimentometry	Preparation	-
Sub-contracted work	Analysis	-
	Sequential No.	NA
Subcontracted		Annexe
Selenium	Preparation	2008-06-10
QC050-02 / acid dig., calcination, hydride generation, AA	Analysis	2008-06-10
Result as per dry weight	Sequential No.	253888
MENVIQ 90.02/204-As1.1		
Selenium	mg/kg	0.1
Total organic carbon	Preparation	2008-06-02
LECO combustion	Analysis	2008-06-02
Sub-contracted work. Result as per dry weight.	Sequential No.	NA
Total organic carbon	%C	1.61
Zinc (Zn)	Preparation	2008-06-09
QC087-07 / acid digestion, ICP analysis	Analysis	2008-06-10
Result as per dry weight	Sequential No.	253844
MA200-Mét 1.1 R3		
Zinc (Zn)	mg/kg	58

Request Number: 08-261093

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago Project 51516-100	M. Marc Rood

Sample(s)

Lab. No. 1188980
Your Reference CLF-1

Matrix Sediment
Sampled by M. Simon Thibault

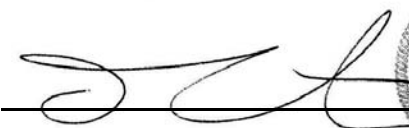
Site sampled Manitoba


Date sampled 2008-05-09
Date received 2008-05-28

Parameter(s)

Method
Reference

Note: Results pertain only to the samples submitted for analysis.


François Aubé, chemist





Certificate of Analysis

Request Number: 08-261093

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago Project 51516-100	M. Marc Rood

Quality Control Results (CQ)

Parameters (Sequential ID No.)	Units	RDL	Blank	Certified Control	
				Result	Expected Range
Arsenic					
Sequential ID No.: 253881					
Arsenic	mg/kg	<N/A	<N/A	NA	18N-84
Cadmium					
Sequential ID No.: 253865					
Cadmium	mg/kg	<N/A	<N/A	NA	80N A20
Mercury					
Sequential ID No.: 253857					
Mercury	mg/kg	<N/A	<N/A	NA	2.NA 4
Cobalt (Co)					
Sequential ID No.: 253844					
Cobalt (Co)	mg/kg	NA	NA	NA	80N A20
Chromium (Cr)					
Sequential ID No.: 253844					
Chromium (Cr)	mg/kg	NA	NA	NA	80N A20
Copper (Cu)					
Sequential ID No.: 253844					
Copper (Cu)	mg/kg	NA	NA	NA	80N A20
Iron (Fe)					
Sequential ID No.: 253844					
Iron (Fe)	mg/kg	<N/A	<N/A	NA	400N-600
Magnesium (Mg)					
Sequential ID No.: 253844					

Comments



Certificate of Analysis

Request Number: **08-261093**

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago Project 51516-100	M. Marc Rood

Quality Control Results (CQ)

Parameters (Sequential ID No.)	Units	RDL	Blank	Certified Control	
				Result	Expected Range
Magnesium (Mg) Sequential ID No.: 253844	mg/kg	N/A	N/A	5120	400-600
Manganese (Mn) Sequential ID No.: 253844	mg/kg	N/A	N/A	120	80-120
Molybdenum (Mo) Sequential ID No.: 253844	mg/kg	N/A	N/A	120	80-120
Nickel (Ni) Sequential ID No.: 253844	mg/kg	N/A	N/A	120	80-120
Lead (Pb) Sequential ID No.: 253844	mg/kg	N/A	N/A	120	80-120
Zinc (Zn) Sequential ID No.: 253844	mg/kg	N/A	N/A	120	80-120
Loss on ignition (550°C) (Organic matter) Sequential ID No.: 253775	%	N/A	N/A	13	24-36
Selenium Sequential ID No.: 253888	mg/kg	<N/A	<N/A	N/A	0.6-1.2

Comments

RDL : Reported Detection Limit

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Bodycote Testing Group
1818 Rte de L'Aéroport - Québec - Québec - Canada - G2G 2P8 - Tel: +1 (418) 871-8722 - Fax: +1 (418) 871-9556

This certificate must not be reproduced, except in its entirety, without written consent from the laboratory. The above-mentioned samples will be retained for a period of 30 days following the issue of this certificate with the exception of microbiology samples or as instructed by the client. Results pertain only to the samples submitted for analysis.

L7.7-94

Certificate of Analysis

Request number: 08-259707
Date Received: 2008-05-20
Date Certificate Issued: 2008-06-27
Certificate Version: 1
 Official Certificate of Analysis
 Preliminary Certificate of Analysis

Client

ROCHE GROUPE-CONSEIL

3075, CHEMIN QUATRE-BOURGEOIS (3e étage)
SAINTE-FOY, QUÉBEC, Canada
G1W 4Y4
Telephone : (418) 654-9600
Fax : (418) 654-9699

P.O. Number	Your project ID.	Project Manager
NA	Minago project	M. Marc Rood

Comments

This version replaces and cancels all earlier version.

NA : Information Not Available

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Request Number: 08-259707

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago project	M. Marc Rood

Sample(s)

Lab. No.	1184152	1184153	1184154	1184155
Your Reference	LBF-1	HLF-1	OCF-1	MRF-3
Matrix	Sediment	Sediment	Sediment	Sediment
Sampled by	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil
Site sampled	NA	NA	NA	NA
Date sampled	2008-05-06	2008-05-06	2008-05-08	2008-05-08
Date received	2008-05-20	2008-05-20	2008-05-20	2008-05-20

Parameter(s)

Method				
Reference				
Arsenic	Preparation	2008-05-30	2008-05-30	2008-05-30
QC050-02 / acid dig., calcination, hydride generation, AA	Analysis	2008-05-30	2008-05-30	2008-05-30
Result as per dry weight	Sequential No.	252703	252703	252703
MENVIQ 90.02/204-As1.1				
Arsenic	mg/kg	1.9	2.7	2.1
Cadmium	Preparation	2008-05-30	2008-05-30	2008-05-30
Acid digestion, GFAA analysis	Analysis	2008-05-30	2008-05-30	2008-05-30
Result as per dry weight	Sequential No.	252474	252474	252474
EPA3050,MA200.Met1.0				
Cadmium	mg/kg	0.09	0.13	0.12
Chromium (Cr)	Preparation	2008-05-27	2008-05-27	2008-05-27
QC087-07 / acid digestion, ICP analysis	Analysis	2008-05-27	2008-05-27	2008-05-27
Result as per dry weight	Sequential No.	252373	252373	252373
MA200-Mét 1.1 R3				
Chromium (Cr)	mg/kg	12	21	27
Cobalt (Co)	Preparation	2008-05-28	2008-05-28	2008-05-28
QC087-07 / acid digestion, ICP analysis	Analysis	2008-05-29	2008-05-29	2008-05-29
Result as per dry weight	Sequential No.	252696	252696	252696
MA200-Mét 1.1 R3				
Cobalt (Co)	mg/kg	4	8	9
Copper (Cu)	Preparation	2008-05-27	2008-05-27	2008-05-27
QC087-07 / acid digestion, ICP analysis	Analysis	2008-05-27	2008-05-27	2008-05-27
Result as per dry weight	Sequential No.	252373	252373	252373
MA200-Mét 1.1 R3				
Copper (Cu)	mg/kg	5	13	11
Iron (Fe)	Preparation	2008-05-27	2008-05-27	2008-05-27
QC087-07 / acid digestion, ICP analysis	Analysis	2008-05-27	2008-05-27	2008-05-28
Result as per dry weight	Sequential No.	252373	252373	252515
MA200-Mét 1.1 R3				
Iron (Fe)	mg/kg	6800	16000	17000

Request Number: 08-259707

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago project	M. Marc Rood

Sample(s)

	1184152	1184153	1184154	1184155
Lab. No.	1184152	1184153	1184154	1184155
Your Reference	LBF-1	HLF-1	OCF-1	MRF-3
Matrix	Sediment	Sediment	Sediment	Sediment
Sampled by	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil
Site sampled	NA	NA	NA	NA
Date sampled	2008-05-06	2008-05-06	2008-05-08	2008-05-08
Date received	2008-05-20	2008-05-20	2008-05-20	2008-05-20

Parameter(s)

Method Reference					
Lead (Pb)	Preparation	2008-05-27	2008-05-27	2008-05-27	2008-05-27
QC087-07 / acid digestion, ICP analysis Result as per dry weight MA200-Mét 1.1 R3	Analysis	2008-05-27	2008-05-27	2008-05-27	2008-05-27
	Sequential No.	252373	252373	252373	252373
	mg/kg	<5	6	9	34
Magnesium (Mg)	Preparation	2008-05-27	2008-05-27	2008-05-27	2008-05-27
QC087-07 / acid digestion, ICP analysis Result as per dry weight MA200-Mét 1.1 R3	Analysis	2008-05-27	2008-05-27	2008-05-27	2008-05-27
	Sequential No.	252373	252373	252373	252373
	mg/kg	7400	44000	9700	24000
Manganese (Mn)	Preparation	2008-05-27	2008-05-27	2008-05-27	2008-05-27
QC087-07 / acid digestion, ICP analysis Result as per dry weight MA200-Mét 1.1 R3	Analysis	2008-05-27	2008-05-27	2008-05-27	2008-05-27
	Sequential No.	252373	252373	252373	252373
	mg/kg	200	630	710	830
Mercury	Preparation	2008-05-27	2008-05-27	2008-05-27	2008-05-27
QC068-96 / acid digestion, AA (cold-vapor) analysis Result as per dry weight MA200 Hg 1.0	Analysis	2008-05-27	2008-05-27	2008-05-27	2008-05-27
	Sequential No.	252375	252375	252375	252375
	mg/kg	0.03	0.04	0.05	0.04
Molybdenum (Mo)	Preparation	2008-05-27	2008-05-27	2008-05-27	2008-05-27
QC087-07 / acid digestion, ICP analysis Result as per dry weight MA200-Mét 1.1 R3	Analysis	2008-05-27	2008-05-27	2008-05-27	2008-05-27
	Sequential No.	252373	252373	252373	252373
	mg/kg	<1	<1	<1	<1
Nickel (Ni)	Preparation	2008-05-27	2008-05-27	2008-05-27	2008-05-27
QC087-07 / acid digestion, ICP analysis Result as per dry weight MA200-Mét 1.1 R3	Analysis	2008-05-27	2008-05-27	2008-05-27	2008-05-27
	Sequential No.	252373	252373	252373	252373
	mg/kg	8	14	17	35
Particle size distribution	Preparation	-	-	-	-
Sub-contracted work	Analysis	-	-	-	-
	Sequential No.	NA	NA	NA	NA

Certificate of Analysis No. 263014 - Revision 1 - Page 3 of 8

Request Number: 08-259707

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago project	M. Marc Rood

Sample(s)

Lab. No.	1184152	1184153	1184154	1184155
Your Reference	LBF-1	HLF-1	OCF-1	MRF-3
Matrix	Sediment	Sediment	Sediment	Sediment
Sampled by	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil
Site sampled	NA	NA	NA	NA
Date sampled	2008-05-06	2008-05-06	2008-05-08	2008-05-08
Date received	2008-05-20	2008-05-20	2008-05-20	2008-05-20

Parameter(s)

Method Reference				
Particle size distribution		Annexe	Annexe	Annexe
Sedimentometry	Preparation	-	-	-
Sub-contracted work	Analysis	-	-	-
	Sequential No.	NA	NA	NA
Subcontracted		Annexe	Annexe	Annexe
Selenium	Preparation	2008-05-30	2008-05-30	2008-05-30
QC050-02 / acid dig., calcination, hydride generation, AA	Analysis	2008-05-30	2008-05-30	2008-05-30
Result as per dry weight	Sequential No.	252702	252702	252702
MENVIQ 90.02/204-As1.1		0.3	0.2	0.5
Selenium		0.3	0.2	0.5
Total organic carbon	Preparation	2008-05-27	2008-05-27	2008-05-27
LECO combustion	Analysis	2008-05-27	2008-05-27	2008-05-27
Sub-contracted work. Result as per dry weight.	Sequential No.	NA	NA	NA
Total organic carbon	%C	23	2.57	19
Total volatile solids	Preparation	2008-05-23	2008-05-23	2008-05-23
QC047-96 / Calcination (2 hours, 550°C) / MA100 S-T 1.0	Analysis	2008-05-26	2008-05-26	2008-05-26
Result as per dry weight	Sequential No.	251928	251928	251928
Total volatile solids (wet weight)	mg/kg	87000	42000	96000
Total volatile solids (wet weight)	%	8.7	4.2	9.6
Total volatile solids (dry weight)	mg/kg	210000	84000	350000
Total volatile solids (dry weight)	%	21	8.4	35
Zinc (Zn)	Preparation	2008-05-27	2008-05-27	2008-05-27
QC087-07 / acid digestion, ICP analysis	Analysis	2008-05-27	2008-05-27	2008-05-27
Result as per dry weight	Sequential No.	252373	252373	252373
MA200-Mét 1.1 R3		21	39	59
Zinc (Zn)		21	39	59

Request Number: 08-259707

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago project	M. Marc Rood

Sample(s)

Lab. No. 1184156
Your Reference WRF-3
Matrix Sediment
Sampled by Mme Brigitte Dutil
Site sampled NA
Date sampled 2008-05-08
Date received 2008-05-20

Parameter(s)

Method
Reference

Arsenic	Preparation	2008-05-30
QC050-02 / acid dig., calcination, hydride generation, AA Result as per dry weight MENVIQ 90.02/204-As1.1	Analysis	2008-05-30
	Sequential No.	252703
Arsenic	mg/kg	1.3
Cadmium	Preparation	2008-05-30
Acid digestion, GFAA analysis Result as per dry weight EPA3050,MA200.Met1.0	Analysis	2008-05-30
	Sequential No.	252474
Cadmium	mg/kg	0.04
Chromium (Cr)	Preparation	2008-05-27
QC087-07 / acid digestion, ICP analysis Result as per dry weight MA200-Mét 1.1 R3	Analysis	2008-05-27
	Sequential No.	252373
Chromium (Cr)	mg/kg	14
Cobalt (Co)	Preparation	2008-05-28
QC087-07 / acid digestion, ICP analysis Result as per dry weight MA200-Mét 1.1 R3	Analysis	2008-05-29
	Sequential No.	252696
Cobalt (Co)	mg/kg	5
Copper (Cu)	Preparation	2008-05-27
QC087-07 / acid digestion, ICP analysis Result as per dry weight MA200-Mét 1.1 R3	Analysis	2008-05-27
	Sequential No.	252373
Copper (Cu)	mg/kg	6
Iron (Fe)	Preparation	2008-05-27
QC087-07 / acid digestion, ICP analysis Result as per dry weight MA200-Mét 1.1 R3	Analysis	2008-05-27
	Sequential No.	252373
Iron (Fe)	mg/kg	7800

Request Number: 08-259707

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago project	M. Marc Rood

Sample(s)

Lab. No. 1184156
Your Reference WRF-3
Matrix Sediment
Sampled by Mme Brigitte Dutil
Site sampled NA
Date sampled 2008-05-08
Date received 2008-05-20

Parameter(s)

Method		
Reference		
Lead (Pb)	Preparation	2008-05-27
QC087-07 / acid digestion, ICP analysis	Analysis	2008-05-27
Result as per dry weight	Sequential No.	252373
MA200-Mét 1.1 R3		
Lead (Pb)	mg/kg	<5
Magnesium (Mg)	Preparation	2008-05-27
QC087-07 / acid digestion, ICP analysis	Analysis	2008-05-27
Result as per dry weight	Sequential No.	252373
MA200-Mét 1.1 R3		
Magnesium (Mg)	mg/kg	12000
Manganese (Mn)	Preparation	2008-05-27
QC087-07 / acid digestion, ICP analysis	Analysis	2008-05-27
Result as per dry weight	Sequential No.	252373
MA200-Mét 1.1 R3		
Manganese (Mn)	mg/kg	170
Mercury	Preparation	2008-05-27
QC068-96 / acid digestion, AA (cold-vapor) analysis	Analysis	2008-05-27
Result as per dry weight MA200 Hg 1.0	Sequential No.	252375
Mercury	mg/kg	0.02
Molybdenum (Mo)	Preparation	2008-05-27
QC087-07 / acid digestion, ICP analysis	Analysis	2008-05-27
Result as per dry weight	Sequential No.	252373
MA200-Mét 1.1 R3		
Molybdenum (Mo)	mg/kg	<1
Nickel (Ni)	Preparation	2008-05-27
QC087-07 / acid digestion, ICP analysis	Analysis	2008-05-27
Result as per dry weight	Sequential No.	252373
MA200-Mét 1.1 R3		
Nickel (Ni)	mg/kg	9
Particle size distribution	Preparation	-
Sub-contracted work	Analysis	-
	Sequential No.	NA

Request Number: 08-259707

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago project	M. Marc Rood

Sample(s)

Lab. No. 1184156
Your Reference WRF-3
Matrix Sediment
Sampled by Mme Brigitte Dutil
Site sampled NA
Date sampled 2008-05-08
Date received 2008-05-20

Parameter(s)

Method
Reference

Particle size distribution

Annexe

Sedimentometry

Preparation -
Analysis -
Sequential No. NA

Sub-contracted work

Subcontracted

Annexe

Selenium

Preparation 2008-05-30
Analysis 2008-05-30
Sequential No. 252702

QC050-02 / acid dig., calcination, hydride generation, AA
Result as per dry weight
MENVIQ 90.02/204-As1.1

Selenium

mg/kg 0.1

Total organic carbon

Preparation 2008-05-27
Analysis 2008-05-27
Sequential No. NA

LECO combustion
Sub-contracted work. Result as per dry weight.

Total organic carbon

%C 0.74

Total volatile solids

Preparation 2008-05-23
Analysis 2008-05-26
Sequential No. 251928

QC047-96 / Calcination (2 hours, 550°C) / MA100 S-T 1.0
Result as per dry weight

Total volatile solids (wet weight)

mg/kg 16000

Total volatile solids (wet weight)

% 1.6

Total volatile solids (dry weight)

mg/kg 19000

Total volatile solids (dry weight)

% 1.9

Zinc (Zn)

Preparation 2008-05-27
Analysis 2008-05-27
Sequential No. 252373

QC087-07 / acid digestion, ICP analysis
Result as per dry weight
MA200-Mét 1.1 R3

Zinc (Zn)

mg/kg 23

Request Number: 08-259707

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago project	M. Marc Rood

Sample(s)

Lab. No. 1184156
Your Reference WRF-3

Matrix Sediment
Sampled by Mme Brigitte Dutil

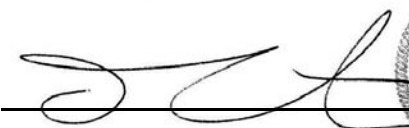
Site sampled NA

Date sampled 2008-05-08
Date received 2008-05-20

Parameter(s)

Method
Reference

Note: Results pertain only to the samples submitted for analysis.


François Aubé, chemist





Certificate of Analysis

Request Number: **08-259707**

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago project	M. Marc Rood

Quality Control Results (CQ)

Parameters (Sequential ID No.)	Units	RDL	Blank	Certified Control	
				Result	Expected Range
Arsenic					
Sequential ID No.: 252703					
Arsenic	mg/kg	< 0.5	0.5	NA	18-34
Cadmium					
Sequential ID No.: 252474					
Cadmium	mg/kg	< 0.03	0.03	NA	11-16.4
Mercury					
Sequential ID No.: 252375					
Mercury	mg/kg	< 0.01	0.01	NA	2-NA-4
Cobalt (Co)					
Sequential ID No.: 252696					
Cobalt (Co)	mg/kg	NA	NA	NA	5-NA
Chromium (Cr)					
Sequential ID No.: 252373					
Chromium (Cr)	mg/kg	NA	NA	NA	113-169
Copper (Cu)					
Sequential ID No.: 252373					
Copper (Cu)	mg/kg	NA	NA	NA	372.3-558.5
Iron (Fe)					
Sequential ID No.: 252373					
Iron (Fe)	mg/kg	< 50	50	1000	1000-15000
Iron (Fe)					
Sequential ID No.: 252515					

Comments

Sequential ID no. 252373 : Na : Blanc positif non soustrait des échantillons



Certificate of Analysis

Request Number: **08-259707**

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago project	M. Marc Rood

Quality Control Results (CQ)

Parameters (Sequential ID No.)	Units	RDL	Blank	Certified Control	
				Result	Expected Range
Iron (Fe)	mg/kg	<NA	<NA	1300	1000-1500
Magnesium (Mg) Sequential ID No.: 252373					
Magnesium (Mg)	mg/kg	NA	NA	600	536-804
Manganese (Mn) Sequential ID No.: 252373					
Manganese (Mn)	mg/kg	NA	NA	170	140-210
Molybdenum (Mo) Sequential ID No.: 252373					
Molybdenum (Mo)	mg/kg	NA	NA	NA	10.7-17.8
Nickel (Ni) Sequential ID No.: 252373					
Nickel (Ni)	mg/kg	NA	NA	120	101-151
Lead (Pb) Sequential ID No.: 252373					
Lead (Pb)	mg/kg	NA	NA	190	71.4-107
Zinc (Zn) Sequential ID No.: 252373					
Zinc (Zn)	mg/kg	NA	NA	690	500-750
Selenium Sequential ID No.: 252702					
Selenium	mg/kg	<NA	<NA	NA	0.6-1.2

Comments

Sequential ID no. 252373 : Na : Blanc positif non soustrait des échantillons



Certificate of Analysis

Request Number: **08-259707**

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago project	M. Marc Rood

Quality Control Results (CQ)

Parameters (Sequential ID No.)	Units	RDL	Blank	Certified Control	
				Result	Expected Range
Total volatile solids					
Sequential ID No.: 251928					
Total volatile solids (wet weight)	mg/kg	< NA00	< NA00	NA	NA
Total volatile solids (wet weight)	%	< NA1	NA	NA	NA
Total volatile solids (dry weight)	mg/kg	< NA00	< NA00	NA	NA
Total volatile solids (dry weight)	%	< NA1	NA	NA	NA

Comments

Sequential ID no. 252373 : Na : Blanc positif non soustrait des échantillons

Certificate of Analysis

Request Number: 08-259707

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago project	M. Marc Rood

Quality Control Results - Part 2

Parameters (Sequential ID No.)	Units	Value 1	Value 2	Difference (%)
Duplicate				
Arsenic				
Sequential ID No: 252703	(Sample no)		(1184153)	
Arsenic	mg/kg	2.7	2.8	3.6
Cadmium				
Sequential ID No: 252474	(Sample no)		(1184153)	
Cadmium	mg/kg	0.13	0.12	8.0
Chromium (Cr)				
Sequential ID No: 252373	(Sample no)		(1184153)	
Chromium (Cr)	mg/kg	21	21	0.0
Copper (Cu)				
Sequential ID No: 252373	(Sample no)		(1184153)	
Copper (Cu)	mg/kg	13	12	8.0
Iron (Fe)				
Sequential ID No: 252373	(Sample no)		(1184153)	
Iron (Fe)	mg/kg	16000	16000	0.0
Lead (Pb)				
Sequential ID No: 252373	(Sample no)		(1184153)	
Lead (Pb)	mg/kg	6	7	15.4
Magnesium (Mg)				
Sequential ID No: 252373	(Sample no)		(1184153)	
Magnesium (Mg)	mg/kg	44000	43000	2.3
Manganese (Mn)				
Sequential ID No: 252373	(Sample no)		(1184153)	
Manganese (Mn)	mg/kg	630	620	1.6
Mercury				
Sequential ID No: 252375	(Sample no)		(1184153)	

Comments

Sequential ID no. 252373 : Na : Blanc positif non soustrait des échantillons

Certificate of Analysis

Request Number: 08-259707

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago project	M. Marc Rood

Quality Control Results - Part 2

Parameters (Sequential ID No.)	Units	Value 1	Value 2	Difference (%)
Duplicate				
Mercury	mg/kg	0.04	0.04	0.0
Molybdenum (Mo)				
Sequential ID No: 252373	(Sample no)		(1184153)	
Molybdenum (Mo)	mg/kg	<1	<1	-
Nickel (Ni)				
Sequential ID No: 252373	(Sample no)		(1184153)	
Nickel (Ni)	mg/kg	14	14	0.0
Selenium				
Sequential ID No: 252702	(Sample no)		(1184153)	
Selenium	mg/kg	0.2	0.2	0.0
Zinc (Zn)				
Sequential ID No: 252373	(Sample no)		(1184153)	
Zinc (Zn)	mg/kg	39	40	2.5

Comments

Sequential ID no. 252373 : Na : Blanc positif non soustrait des échantillons

Bodycote Materials Testing Canada Inc. (and Subsidiaries) And Bodycote Materials Testing, Inc., A Delaware Corporation (and Subsidiaries)

Standard Terms And Conditions Of Contract ("the Conditions")

FORMS 1 - Rev. 5-2006-08-16

INTERPRETATION

1. In these Conditions the following expressions shall (unless the context requires) have the following meanings: Client, means the person, firm or company to whom a Quotation is addressed or for whom a Test or any Services is carried out.

Company, means the member of the Bodycote Materials Group that is providing the Services, being any of Bodycote Materials Testing Contract Inc., Bodycote Materials Testing Inc. or a licensee corporation and/or any of their respective subsidiaries, as applicable.

Conditions, means the Conditions including the Quotation or Proposal, and any other documents, instruments and/or correspondence between the Client and the Company, its affiliates and subsidiaries, and its duly authorized directors, officers, employees, agents and independent contractors.

Price, means the price stated in the Quotation or otherwise agreed with the Client in writing together with all other sums due pursuant to these Conditions.

Proposal, means the Company's proposal of which these Conditions form a part and shall be deemed incorporated by reference as if fully set herein.

Quotation, means the Company's quotation (whether written or oral) of which these Conditions form a part and shall be deemed incorporated by reference as if fully set forth herein.

Report, means any report, recommendation or the like issued by the Company in respect of the Services.

Sample, means any material supplied by the Client to form the basis of a Test.

Services, means the services specified in the Quotation or Proposal.

Test, means any testing, analysis, assay, or the like specified in a Quotation or Proposal.

Test Certificate, means any test certificate, recommendation or the like issued by the Company in respect of a Test.

QUOTATION

2.1 The Quotation constitutes a revocable offer by the Company to provide Services and/or carry out a Test subject to the Conditions and open for acceptance for ninety days only from the date hereof unless stated otherwise on the written Quotation or Proposal or unless revoked prior to acceptance. Acceptance by the Client must include written authorization, including a Purchase Order, or advance payment.

2.2 Except in accordance with these Conditions no variation of the Contract will be accepted unless agreed in writing by the Company.

2.3 No condition, statement or representation contained in any advertisement or brochure or in any trade or promotional circular or other literature, nor the terms or conditions of any trade association or other body, or which would or might but for this sub-paragraph be implied or incorporated by custom or trade, usage, negotiations, course of dealing or otherwise shall be deemed to be incorporated in the Contract and all of the same are hereby expressly excluded from the Contract. PRICE

3.1 The Price is based on information available to the Company at the date of the Quotation. If during the period of the Contract there shall be any variation in the cost of materials, labour or otherwise to the Company, the Price may, in the absolute discretion of the Company, be adjusted to take account of such variation.

3.2 In addition to the amount specified in the Quotation the following shall be in addition to the Price and payable if imposed on the Company or otherwise appropriate:

(1) any applicable value added tax, excise tax, goods and services tax, sales tax, use tax or other applicable tax;

(2) all bank charges;

(3) package, insurance, freight and storage charges incurred on behalf of the Client, whether on the Company's premises or elsewhere, and to include sample charges on the Company's premises; (4) any Sample or materials supplied by the Client are not removed from the Company's premises within seven days of the date of notification to the Client that they are ready for collection;

(5) insurance incurred by the Company, in its absolute discretion, in respect of any property belonging to the Client in the possession of the Company;

(6) the cost of all sub-contractors engaged by the Company unless included in the Quotation; and (7) any additional costs incurred by the Company in accordance with these Conditions.

PAYMENT

4.1 The Price shall be paid to the Company in full without any deduction, set-off or counterclaim within thirty days of the date of the Quotation or invoice and in default of payment within the thirty days the Company may suspend any further Services and/or Tests being carried out by the Client and the amount outstanding from time to time shall bear interest (both before and after any judgment) at a rate equal to the lesser of 2.5% per annum or the maximum rate permitted by law until payment in full is made (but not in addition to) and not in full until the purpose of such interest is satisfied (to the extent permitted by law). Late fees shall be in addition to (and not in lieu of) other remedies for default available to the Company.

4.2 All payments due to the Company shall be payable within the specified time (respectively of whatever or not the Client has elected to pay) but shall not be due until the Client has made a deposit but not prior to the date of the foregoing. The include payment with interest when instructed by the Company or as agreed with the Client by the Client acting as self-administered agency for a party in a dispute.

4.3 The Company reserves the right not to initiate work or perform Services or Tests until specific credit terms have been established. Credit terms may include payment of outstanding invoices, prepayment, or completion of the Quotation and/or submission of a completed credit application by the Client including a release to allow the Company to draw upon a third party credit checking agency.

EXECUTION OF TESTS

5.1 The Test shall be carried out singly unless prior written instructions from the Client are received for multiples or unless the Company considers replicates are necessary or desirable. The Company reserves the right to change or re-specify the Test.

5.2 The Client shall supply as much information as possible about each Sample in order to assist in achieving an efficient Service. Where Samples are non-fully described and the Company is involved in additional work, the Company reserves the right of charge for such additional work.

5.3 Unless specific prior instructions in writing are received by the Company, the Test shall be carried out on the Sample in the state in which the Sample is received. The Company reserves the right of charge for any work required to be carried out to the Sample prior to the performance of any Test.

5.4 Methods of carrying out the Test shall be at the sole discretion of the Company unless specific prior instructions in writing are received by the Client specifying a particular procedure which are agreed to by the Company. Charges for such special procedures will be negotiated and agreed to between the Company and the Client prior to carrying out the Test.

5.5 A general description of the method used in the Test shall be given verbally on request. Where written descriptions of detailed procedures are requested, whether as part of the Test Certificate or issued separately, the Company reserves the right to make an additional charge. If the method needed in the Test represents the end product of development work carried out at the Company's expense, the method shall only be revealed at the discretion of the Company.

5.6 If special standards or equipment are used in the Test, they shall be involved in addition to the charge of the Test itself.

5.7 The Company may, at its sole discretion, undertake to give priority in carrying out a particular Test. A surcharge may be imposed by the Company for the carrying out of priority work (Details of these arrangements will be issued by the Company on request.)

SAMPLES SUBJECT OF LEGAL PROCEEDINGS

6.1 The Client shall notify the Company in writing if the Services to be performed are in support of pending or contemplated litigation prior to the Company commencing the Service. If that fact is not disclosed to the Company, the Company shall not necessarily be prepared to provide expert testimony. Should the Company be legally compelled to perform other work such as giving of evidence under a summons to witness the Client shall pay a fee based on standard hourly rates in effect.

DISCLAIMER OF LIABILITY AND LIMITATION OF WARRANTY

7.1 The Company's total liability (if any) to the Client (excepting always liabilities in respect of personal injury or death caused by the gross negligence or willful misconduct of the Company's operations), whether in contract, tort, delict, quasi delict, or otherwise in respect of any direct or indirect or consequential or damage (howsoever caused) or from any negligent act or omission of any Identified Person, or from any breach by any Identified Person of any duty owed to the Client in connection with the Contract shall be limited to the Price.

7.2 All Services and/or Tests are undertaken in good faith, to a reasonable standard of care and on a confidential basis. Reports and Test Certificates are issued on the basis of information known to the Company at the time the Services and/or Tests are carried out. Although the Company will use all reasonable endeavors to insure accuracy, the Company's acceptance of the Client's information and materials submitted to the Company, Save as required by law, no representation or warranty, whether expressed or implied or otherwise or of the accuracy of a Test Certificate or Report is given by the Company. The Company makes no other oral or written express implied, except as is expressly set forth hereon, but all such oral or written statements are deemed to be the basis hereof. All Reports and Test Certificates are prepared on the basis that:

(i) there is no responsibility or liability to any person or body other than the Client;

(ii) they are not carried out for any particular purpose and no statement is to be deemed, in any circumstances to be of or give rise to a representation, undertaking, warranty or contractual condition, unless specifically stated; and

(iii) they are determined solely by the professional analysis undertaken by the Company's staff on each individual Contract and any forecasts by the Company of the results is an estimate only and the Company is entitled to the result the Price representing the results or conclusions reached.

7.3 All time limits, if any, are estimates and no undertaking is given to carry out the Services and/or Tests to dispatch any Test Certification within any period of time.

7.4 The Company shall not be responsible for carrying out the Client for the consequences of any delay in arriving at the Services and/or Tests or in delivering the Report and/or Test Certificate arising from any strike, lockout, trade dispute, accident, fire, inclement weather, flood, tempest, war, or act of God or any other matter or thing beyond its reasonable control.

7.5 No Identified Person shall be liable to the Client for any amount exceeding the Price except on the recovery of the results set out in a Test Certificate or Report hereunder.

OBLIGATIONS OF CLIENT

8.1 The Client shall not reveal or make available the details of any Report or Test Certificate to any third party (save also 10.2) without first obtaining the prior written consent of the Company, however the Company shall have the right to disclose all information it possesses regarding the Contract, the Services and the Test results if required by court order or valid subpoena and the Company shall incur no liability to the Client resulting from such disclosures.

8.2 The Client shall be bound to inform the Company in writing prior to the carrying out of any Test that a sample is of a dangerous or unstable nature and shall indemnify the Identified Persons from and against all loss or damage suffered by the Identified Persons, including, without limiting the generality of the foregoing, all damage to the Identified Persons' property and all claims in respect of injury to or death of any of the Identified Persons or of any third party, directly or indirectly arising from or in connection with the failure of the Client to inform the Company of the dangerous or unstable nature of a Sample.

8.3 The Client shall indemnify the Company from and against all loss or damage suffered or incurred by the Company, whether to or at the instance of the Client or its employees, sub-contractors or agents or third parties or otherwise directly or indirectly arising from or in connection with the carrying out of the Services and/or Tests except to the extent such loss or damage is caused by the gross negligence or willful misconduct of the Company.

8.4 Unless otherwise agreed the Client will be responsible for providing a safe system of work for the Company and its employees, agents and sub-contractors while providing Services and the Client shall be responsible for all costs necessarily required in discharging this obligation and shall indemnify the Identified Persons in respect of all claims, costs, damages, and loss suffered as a result of any breach by the Client hereof.

RISK AND PROXY IN RELATION TO TESTS

9.1 The risk of loss or damage to the Sample shall remain with the Client at all times.

9.2 Samples of a stable nature shall be retained for up to thirty days from the date of their receipt and then destroyed, or at the Company's option stored at the Client's expense unless otherwise agreed to in writing. Samples shall be returned to the Client only if prior instructions in writing in that regard are received by the Company and the Client shall be charged for all costs associated therewith (including postage).

9.3 Where Samples are, in the sole opinion of the Company, too bulky or too unstable to allow long term storage, it will be at the absolute discretion of the Company as to the length of time such Samples are kept.

9.4 All copyright in client reports and other scientific, documentary or primary data produced during any Test and in all Reports or Test Certificates shall belong to and remain the property of the Company.

9.5 The Report or Test Certificate refers only to the particular Samples, units, materials, instruments and/or other subject used and referred to. Similar references may not be of the same nature and effect and analysis programs might be used for other purposes.

9.6 Client agrees to fund and hold the programs mentioned in the Report or Test Certificate and any other data generated by or from these data and against any of the Identified Persons resulting from or arising out of the use of the Contract and/or for any disposal costs, fines or penalties incurred or imposed or any of the Identified Persons relating to the return or disposal of hazardous materials as defined by the law of the jurisdiction of the Services. Client warrants that it will at all times comply with all applicable laws, including, without limitation, environmental laws, rules and regulations of appropriate governmental agencies and authorities in the jurisdiction of the location of the Company's facility that is performing the Services. If the Client intends to deliver a Sample that contains a hazardous substance, hazardous chemical, or the transmission, use or disposal of the same is regulated by the law (Hazardous Material), the Client agrees to notify the Company in advance of the delivery and agrees to comply with all applicable laws, rules and regulations respecting the delivery and handling of the same.

OWNERSHIP, COPYRIGHT AND PATENTS IN RELATION TO SERVICES

10.1 Ownership and copyright in the Report and any other Reports, results, or information established or collected by the Company in the course of the Services shall remain with the Company and the Client has discharged all its obligations under the Contract, including payment of the Price, whereupon the title, ownership and copyright shall pass to the Client unless the Company is forced to part with any such results, reports or information of any nature to any body exercising its statutory or judicial powers.

10.2 The Client hereby warrants that it will not use the Report or any other Reports, results, or information supplied by the Company for the purposes of advertisement or publication to third parties. Any such issue of the Report or other reports, results or information is permitted under the Contract only with the prior written consent of the Company who shall have the right to increase the Price where it consents to such advertisement and/or publication. If consent is granted the Report or Test Certificate may be reproduced only in its entirety.

10.3 Unless otherwise indicated by the Client in writing, it is understood that electronic transfer (including fax, Email, etc) of the Quotation, Report or Test Certificate by the Company is acceptable.

SUB-CONTRACTING

11. The Company shall be entitled, in its absolute discretion, to sub-contract the whole or any part of the Services and/or Test.

TERMINATION

12.1 The Client shall not terminate the Contract without the written consent of the Company which may be subject to such terms as in the Company's absolute discretion including compensating the Company for all loss it may suffer as a result of termination.

12.2 The Company may terminate the Contract and any other contract with the Client forthwith, without prejudice to any other right or remedy available to the Company and without the Company incurring any liability to the Client, in the following circumstances:

(i) if the Client shall commit a breach of any terms of the Contract or any other contract with the Company unless such breach is capable of remedy and the Client has failed to comply with a notice regarding remedy within the period specified in the said notice;

(ii) without prejudice to the foregoing, if the Client fails to make payment of the Price within the specified time;

(iii) the Client makes any voluntary arrangement with its creditors or becomes subject to an administrator order or (being individual or firm) becomes bankrupt or insolvent or subject to any bankruptcy or recovery law or proceedings or (being a company) goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction), or an administrator takes possession, or a receiver is appointed, of the Company or assets of the Client;

(iv) the Client ceases, or threatens to cease, to carry on business; or

(v) the Company reasonably believes that any of the events mentioned in (iii), (iv), and (v) above is about to occur in relation to the Client and notifies the Client accordingly.

12.3 Other than as required by law, upon termination of the Contract by the Company pursuant to Section 12.2, the Contracting Party shall have no further obligation under the Contract (including any obligation to provide any further Services or any other goods or services) and the Client shall be deemed to have terminated the Contract and shall be liable to indemnify the Company for all amounts payable to the Company under the Contract in respect of the period up to and including the effective date of such termination; and (ii) the provisions of Sections 1.1, 7.2, 7.4, 7.5, 8.1, 8.2, 8.3, 8.4, 9.1, 9.4, 9.6, 10.1, 10.2, 12.1, 12.2, 12.3 and Sections 13.1 to 17.1 (including) shall survive any such termination. In the event of termination of the Contract under Section 12.2 or in the event that the Company institutes legal proceedings for the enforcement or interpretation of the provisions of this Contract, the Client agrees to reimburse the Identified Persons for the Identified Persons' reasonable legal fees and court costs incurred in connection therewith.

NOTICES

13. All notices to be served by one party on the other shall be deemed duly delivered or served if any business days after posting if posted by first class or airmail or pre-paid post to the address of the other party or on the same day as transmission if sent by facsimile.

GENERAL

14. In the event of one or more of the provisions of these Conditions being held by a competent authority to be invalid, illegal, or unenforceable, in whole or in part, the validity, legality or enforceability of the remaining provisions of these Conditions and the remainder of the provision in question shall not be affected thereby.

15. Notwithstanding to the Company any breach of the Contract by the Client shall be considered as a waiver of any subsequent breach of the same or any other provision.

16. The construction, validity, and performance of the Contract shall be governed by and enforced under the laws of the Province (or State if in the United States of America) in which the Company's facility issuing the Report or Test Certificate is located. Any claims made against the Company's facility shall be heard in the jurisdiction in which the Company's facility issuing the Report or Test Certificate is located.

17. The Contract contains the entire agreement between the Company and the Client with respect to the subject matter hereof and supersedes all prior agreements, Quotations, Proposals and other communications relating to the subject matter hereof and there are no other understandings or agreements, verbal or otherwise, in relation hereto between the Company and the Client. This Contract will control over any contradictory or inconsistent provision contained in any document provided by the Client unless expressly referred to in the Contract.

18. ADDITIONAL REQUIREMENTS ON COMPANYS WEBSITE

(a) The Company's internet website, www.bodycote-testing.com, may contain specific additional requirements for certain items covered by this Contract, including specifications, procedures, directions and/or instructions. Any such requirements are hereby incorporated by reference herein, shall be deemed to form part of this Contract and are binding on the Client and the Company. The Company may periodically update such requirements by posting revisions thereto on its internet website and in such event the Client will find the Client of such updates and revisions. In the event of any inconsistency between this Contract and the Company's internet website, the terms of the Contract shall prevail, unless the requirements specified on such website expressly provide otherwise.

(b) The Company may modify these Conditions with respect to future Quotations, Proposals and purchase orders, at any time and from time to time, by posting revised terms and conditions to its internet website at www.bodycote-testing.com, and such revised Conditions shall apply to all Quotations, Proposals and purchase orders issued thereafter.

creditors or becomes subject to an administrator order or (being individual or firm) becomes bankrupt or insolvent or subject to any bankruptcy or recovery law or proceedings or (being a company) goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction), or an administrator takes possession, or a receiver is appointed, of the Company or assets of the Client;

(v) the Client ceases, or threatens to cease, to carry on business; or

(vi) the Company reasonably believes that any of the events mentioned in (iii), (iv), and (v) above is about to occur in relation to the Client and notifies the Client accordingly.

12.3 Other than as required by law, upon termination of the Contract by the Company pursuant to Section 12.2, the Contracting Party shall have no further obligation under the Contract (including any obligation to provide any further Services or any other goods or services) and the Client shall be deemed to have terminated the Contract and shall be liable to indemnify the Company for all amounts payable to the Company under the Contract in respect of the period up to and including the effective date of such termination; and (ii) the provisions of Sections 1.1, 7.2, 7.4, 7.5, 8.1, 8.2, 8.3, 8.4, 9.1, 9.4, 9.6, 10.1, 10.2, 12.1, 12.2, 12.3 and Sections 13.1 to 17.1 (including) shall survive any such termination. In the event of termination of the Contract under Section 12.2 or in the event that the Company institutes legal proceedings for the enforcement or interpretation of the provisions of this Contract, the Client agrees to reimburse the Identified Persons for the Identified Persons' reasonable legal fees and court costs incurred in connection therewith.

NOTICES

13. All notices to be served by one party on the other shall be deemed duly delivered or served if any business days after posting if posted by first class or airmail or pre-paid post to the address of the other party or on the same day as transmission if sent by facsimile.

GENERAL

14. In the event of one or more of the provisions of these Conditions being held by a competent authority to be invalid, illegal, or unenforceable, in whole or in part, the validity, legality or enforceability of the remaining provisions of these Conditions and the remainder of the provision in question shall not be affected thereby.

15. Notwithstanding to the Company any breach of the Contract by the Client shall be considered as a waiver of any subsequent breach of the same or any other provision.

16. The construction, validity, and performance of the Contract shall be governed by and enforced under the laws of the Province (or State if in the United States of America) in which the Company's facility issuing the Report or Test Certificate is located. Any claims made against the Company's facility shall be heard in the jurisdiction in which the Company's facility issuing the Report or Test Certificate is located.

17. The Contract contains the entire agreement between the Company and the Client with respect to the subject matter hereof and supersedes all prior agreements, Quotations, Proposals and other communications relating to the subject matter hereof and there are no other understandings or agreements, verbal or otherwise, in relation hereto between the Company and the Client. This Contract will control over any contradictory or inconsistent provision contained in any document provided by the Client unless expressly referred to in the Contract.

18. ADDITIONAL REQUIREMENTS ON COMPANYS WEBSITE

(a) The Company's internet website, www.bodycote-testing.com, may contain specific additional requirements for certain items covered by this Contract, including specifications, procedures, directions and/or instructions. Any such requirements are hereby incorporated by reference herein, shall be deemed to form part of this Contract and are binding on the Client and the Company. The Company may periodically update such requirements by posting revisions thereto on its internet website and in such event the Client will find the Client of such updates and revisions. In the event of any inconsistency between this Contract and the Company's internet website, the terms of the Contract shall prevail, unless the requirements specified on such website expressly provide otherwise.

(b) The Company may modify these Conditions with respect to future Quotations, Proposals and purchase orders, at any time and from time to time, by posting revised terms and conditions to its internet website at www.bodycote-testing.com, and such revised Conditions shall apply to all Quotations, Proposals and purchase orders issued thereafter.

THE COMPANY MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, EXCEPT AS IS EXPRESSLY SET FORTH HEREIN, ALL SUCH OTHER WARRANTIES BEING HEREBY DISCLAIMED.

L7.7-108

APPENDIX L7.8

Certified Laboratory Reports for Fish Resources

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Appendix L7.8-A: 2007 Fisheries Results	L7.8-1
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APPENDIX L7.8-A

Certified Laboratory Reports for Fisheries Resources

2007 Results



Environmental Division

ANALYTICAL REPORT

URS CANADA INC.

ATTN: KEITH MOUNTJOY

Reported On: 13-JUL-07 05:15 PM

P.O. BOX 11507
1900 - 650 WEST GEORGIA STREET
VANCOUVER BC V6B 4N7

Lab Work Order #: L520264

Date Received: 20-JUN-07

Project P.O. #:

Job Reference: VIC NICKEL - ENV BASELINE 39548827-40001

Legal Site Desc:

CofC Numbers:

Other Information:

Comments:

Timothy Guy Crowther
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Jerry Holzbecher

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS Canada Ltd.
Part of the **ALS Laboratory Group**

1988 Triumph Street, Vancouver, BC V5L 1K5
Phone: +1 604 253 4188 Fax: +1 604 253 6700 www.alsglobal.com
A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L520264-1	L520264-2	L520264-3	L520264-4	L520264-5
		Description					
		Sampled Date	06-JUN-07	06-JUN-07	06-JUN-07	06-JUN-07	30-MAY-07
		Sampled Time					
		Client ID	WRF2-RS	WRF2-BS	WRF2-ES	WRF2-JD	OCF1-MM
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)		81.1	84.8	73.9		78.3
Total Metals	Aluminum (Al)-Total (mg/kg)		11	15	43		33
	Aluminum (Al)-Total (mg/kg wwt)					53.9	
	Antimony (Sb)-Total (mg/kg)		<0.050	<0.050	<0.050		<0.050
	Antimony (Sb)-Total (mg/kg wwt)					<0.010	
	Arsenic (As)-Total (mg/kg)		0.083	0.079	0.163		<0.050
	Arsenic (As)-Total (mg/kg wwt)					0.157	
	Barium (Ba)-Total (mg/kg)		1.49	2.15	2.98		2.45
	Barium (Ba)-Total (mg/kg wwt)					2.27	
	Beryllium (Be)-Total (mg/kg)		<0.30	<0.30	<0.30		<0.30
	Beryllium (Be)-Total (mg/kg wwt)					<0.10	
	Bismuth (Bi)-Total (mg/kg)		<0.30	<0.30	<0.30		<0.30
	Bismuth (Bi)-Total (mg/kg wwt)					<0.030	
	Cadmium (Cd)-Total (mg/kg)		0.043	<0.030	0.032		<0.030
	Cadmium (Cd)-Total (mg/kg wwt)					0.0536	
	Calcium (Ca)-Total (mg/kg)		8890	9790	10300		10800
	Calcium (Ca)-Total (mg/kg wwt)					11600	
	Chromium (Cr)-Total (mg/kg)		<0.50	<0.50	<0.50		<0.50
	Chromium (Cr)-Total (mg/kg wwt)					<0.10	
	Cobalt (Co)-Total (mg/kg)		<0.10	<0.10	<0.10		<0.10
	Cobalt (Co)-Total (mg/kg wwt)					0.087	
	Copper (Cu)-Total (mg/kg)		0.480	0.950	0.796		0.848
	Copper (Cu)-Total (mg/kg wwt)					1.45	
	Lead (Pb)-Total (mg/kg)		<0.10	<0.10	<0.10		<0.10
	Lead (Pb)-Total (mg/kg wwt)					0.045	
	Lithium (Li)-Total (mg/kg)		<0.50	<0.50	<0.50		<0.50
	Lithium (Li)-Total (mg/kg wwt)					0.12	
	Magnesium (Mg)-Total (mg/kg)		286	387	415		413
	Magnesium (Mg)-Total (mg/kg wwt)					466	
	Manganese (Mn)-Total (mg/kg)		2.29	17.1	5.29		18.9
	Manganese (Mn)-Total (mg/kg wwt)					17.5	
	Mercury (Hg)-Total (mg/kg)		0.0392	0.0278	0.0458		0.0785
	Mercury (Hg)-Total (mg/kg wwt)					0.0258	
	Molybdenum (Mo)-Total (mg/kg)		<0.050	<0.050	<0.050		<0.050
	Molybdenum (Mo)-Total (mg/kg wwt)					0.030	
	Nickel (Ni)-Total (mg/kg)		<0.50	<0.50	<0.50		<0.50
	Nickel (Ni)-Total (mg/kg wwt)					0.15	
	Selenium (Se)-Total (mg/kg)		<1.0	<1.0	<1.0		<1.0
	Selenium (Se)-Total (mg/kg wwt)					0.37	

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L520264-6	L520264-7	L520264-8	L520264-9	L520264-10
		Description					
		Sampled Date	30-MAY-07	30-MAY-07	04-JUN-07	04-JUN-07	04-JUN-07
		Sampled Time					
		Client ID	OCF1-BS	OCF1-WS	MRF3-ID	MRF3-PD	MRF3-JD
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)			78.0			82.0
Total Metals	Aluminum (Al)-Total (mg/kg)			18			45
	Aluminum (Al)-Total (mg/kg wwt)	11.5			26.5	27.8	
	Antimony (Sb)-Total (mg/kg)			<0.050			<0.050
	Antimony (Sb)-Total (mg/kg wwt)	<0.010			<0.010	<0.010	
	Arsenic (As)-Total (mg/kg)			<0.050			0.105
	Arsenic (As)-Total (mg/kg wwt)	0.060			0.123	0.123	
	Barium (Ba)-Total (mg/kg)			1.60			2.43
	Barium (Ba)-Total (mg/kg wwt)	1.56			1.04	2.46	
	Beryllium (Be)-Total (mg/kg)			<0.30			<0.30
	Beryllium (Be)-Total (mg/kg wwt)	<0.10			<0.10	<0.10	
	Bismuth (Bi)-Total (mg/kg)			<0.30			<0.30
	Bismuth (Bi)-Total (mg/kg wwt)	<0.030			<0.030	<0.030	
	Cadmium (Cd)-Total (mg/kg)			<0.030			0.091
	Cadmium (Cd)-Total (mg/kg wwt)	0.0165			0.0142	0.0124	
	Calcium (Ca)-Total (mg/kg)			10800			10100
	Calcium (Ca)-Total (mg/kg wwt)	7280			9130	10100	
	Chromium (Cr)-Total (mg/kg)			<0.50			<0.50
	Chromium (Cr)-Total (mg/kg wwt)	<0.10			<0.10	<0.10	
	Cobalt (Co)-Total (mg/kg)			<0.10			<0.10
	Cobalt (Co)-Total (mg/kg wwt)	<0.020			0.033	0.020	
	Copper (Cu)-Total (mg/kg)			0.999			1.11
	Copper (Cu)-Total (mg/kg wwt)	1.26			1.08	1.01	
	Lead (Pb)-Total (mg/kg)			<0.10			<0.10
	Lead (Pb)-Total (mg/kg wwt)	<0.020			<0.020	<0.020	
	Lithium (Li)-Total (mg/kg)			<0.50			<0.50
	Lithium (Li)-Total (mg/kg wwt)	<0.10			<0.10	<0.10	
	Magnesium (Mg)-Total (mg/kg)			394			419
	Magnesium (Mg)-Total (mg/kg wwt)	339			400	418	
	Manganese (Mn)-Total (mg/kg)			3.73			4.57
	Manganese (Mn)-Total (mg/kg wwt)	11.7			8.54	6.35	
	Mercury (Hg)-Total (mg/kg)			0.0933			0.0475
	Mercury (Hg)-Total (mg/kg wwt)	0.0562			0.0495	0.0807	
	Molybdenum (Mo)-Total (mg/kg)			<0.050			<0.050
	Molybdenum (Mo)-Total (mg/kg wwt)	0.032			0.034	0.025	
	Nickel (Ni)-Total (mg/kg)			<0.50			<0.50
	Nickel (Ni)-Total (mg/kg wwt)	<0.10			<0.10	<0.10	
	Selenium (Se)-Total (mg/kg)			<1.0			<1.0
	Selenium (Se)-Total (mg/kg wwt)	0.26			<0.20	0.30	

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L520264-11	L520264-12	L520264-13	L520264-14	L520264-15
		Description					
		Sampled Date	04-JUN-07	06-JUN-07	06-JUN-07	06-JUN-07	06-JUN-07
		Sampled Time					
		Client ID	MRF3-BS	WRF1-ES	WRF1-BS	WRF1-JD	WRF1-MM
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)						
Total Metals	Aluminum (Al)-Total (mg/kg)						
	Aluminum (Al)-Total (mg/kg wwt)	16.5	105	11.1	95.4	79.6	
	Antimony (Sb)-Total (mg/kg)						
	Antimony (Sb)-Total (mg/kg wwt)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	Arsenic (As)-Total (mg/kg)						
	Arsenic (As)-Total (mg/kg wwt)	0.078	0.165	0.037	0.037	0.107	
	Barium (Ba)-Total (mg/kg)						
	Barium (Ba)-Total (mg/kg wwt)	7.42	4.57	1.93	3.14	2.74	
	Beryllium (Be)-Total (mg/kg)						
	Beryllium (Be)-Total (mg/kg wwt)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	Bismuth (Bi)-Total (mg/kg)						
	Bismuth (Bi)-Total (mg/kg wwt)	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
	Cadmium (Cd)-Total (mg/kg)						
	Cadmium (Cd)-Total (mg/kg wwt)	0.0308	0.103	0.0362	0.0426	0.0483	
	Calcium (Ca)-Total (mg/kg)						
	Calcium (Ca)-Total (mg/kg wwt)	13800	12800	7640	7300	10800	
	Chromium (Cr)-Total (mg/kg)						
	Chromium (Cr)-Total (mg/kg wwt)	<0.10	0.20	<0.10	0.20	0.15	
	Cobalt (Co)-Total (mg/kg)						
	Cobalt (Co)-Total (mg/kg wwt)	<0.020	0.052	<0.020	0.064	0.082	
	Copper (Cu)-Total (mg/kg)						
	Copper (Cu)-Total (mg/kg wwt)	0.851	1.10	0.548	1.31	1.13	
	Lead (Pb)-Total (mg/kg)						
	Lead (Pb)-Total (mg/kg wwt)	0.028	0.061	<0.020	0.063	0.037	
	Lithium (Li)-Total (mg/kg)						
	Lithium (Li)-Total (mg/kg wwt)	<0.10	0.19	<0.10	0.16	0.12	
	Magnesium (Mg)-Total (mg/kg)						
	Magnesium (Mg)-Total (mg/kg wwt)	444	606	304	419	534	
	Manganese (Mn)-Total (mg/kg)						
	Manganese (Mn)-Total (mg/kg wwt)	2.36	8.80	4.71	7.95	9.22	
	Mercury (Hg)-Total (mg/kg)						
	Mercury (Hg)-Total (mg/kg wwt)	0.0801	0.0387	0.0396	0.0191	0.0146	
	Molybdenum (Mo)-Total (mg/kg)						
	Molybdenum (Mo)-Total (mg/kg wwt)	0.014	0.022	0.021	0.014	0.025	
	Nickel (Ni)-Total (mg/kg)						
	Nickel (Ni)-Total (mg/kg wwt)	0.12	<0.20	<0.10	0.35	<0.30	
	Selenium (Se)-Total (mg/kg)						
	Selenium (Se)-Total (mg/kg wwt)	0.47	0.55	<0.20	0.26	0.35	

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L520264-16	L520264-17	L520264-18	L520264-19	L520264-20
		Description					
		Sampled Date	03-JUN-07	03-JUN-07	03-JUN-07	30-MAY-07	30-MAY-07
		Sampled Time					
		Client ID	OCF2-PD	OCF2-BS	OCF2-WS	MRF2-MM	MRF2-WS
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)		73.6		79.2	77.5	81.1
Total Metals	Aluminum (Al)-Total (mg/kg)		19		<10	57	25
	Aluminum (Al)-Total (mg/kg wwt)			16.8			
	Antimony (Sb)-Total (mg/kg)		<0.050		<0.050	<0.050	<0.050
	Antimony (Sb)-Total (mg/kg wwt)			<0.010			
	Arsenic (As)-Total (mg/kg)		<0.050		<0.050	0.105	0.071
	Arsenic (As)-Total (mg/kg wwt)			0.042			
	Barium (Ba)-Total (mg/kg)		1.36		2.09	2.57	1.87
	Barium (Ba)-Total (mg/kg wwt)			2.30			
	Beryllium (Be)-Total (mg/kg)		<0.30		<0.30	<0.30	<0.30
	Beryllium (Be)-Total (mg/kg wwt)			<0.10			
	Bismuth (Bi)-Total (mg/kg)		<0.30		<0.30	<0.30	<0.30
	Bismuth (Bi)-Total (mg/kg wwt)			<0.030			
	Cadmium (Cd)-Total (mg/kg)		<0.030		<0.030	<0.030	<0.030
	Cadmium (Cd)-Total (mg/kg wwt)			0.0238			
	Calcium (Ca)-Total (mg/kg)		7210		7780	7660	10800
	Calcium (Ca)-Total (mg/kg wwt)			8650			
	Chromium (Cr)-Total (mg/kg)		<0.50		<0.50	<0.50	<0.50
	Chromium (Cr)-Total (mg/kg wwt)			<0.10			
	Cobalt (Co)-Total (mg/kg)		<0.10		<0.10	<0.10	<0.10
	Cobalt (Co)-Total (mg/kg wwt)			<0.020			
	Copper (Cu)-Total (mg/kg)		0.898		0.891	1.16	1.51
	Copper (Cu)-Total (mg/kg wwt)			1.34			
	Lead (Pb)-Total (mg/kg)		<0.10		<0.10	<0.10	<0.10
	Lead (Pb)-Total (mg/kg wwt)			<0.020			
	Lithium (Li)-Total (mg/kg)		<0.50		<0.50	<0.50	<0.50
	Lithium (Li)-Total (mg/kg wwt)			<0.10			
	Magnesium (Mg)-Total (mg/kg)		311		367	366	401
	Magnesium (Mg)-Total (mg/kg wwt)			349			
	Manganese (Mn)-Total (mg/kg)		3.69		2.93	29.7	17.8
	Manganese (Mn)-Total (mg/kg wwt)			10.1			
	Mercury (Hg)-Total (mg/kg)		0.0515		0.122	0.0447	0.0356
	Mercury (Hg)-Total (mg/kg wwt)			0.0322			
	Molybdenum (Mo)-Total (mg/kg)		0.050		<0.050	<0.050	0.059
	Molybdenum (Mo)-Total (mg/kg wwt)			0.037			
	Nickel (Ni)-Total (mg/kg)		<0.50		<0.50	<0.50	<0.50
	Nickel (Ni)-Total (mg/kg wwt)			<0.10			
	Selenium (Se)-Total (mg/kg)		<1.0		<1.0	<1.0	<1.0
	Selenium (Se)-Total (mg/kg wwt)			0.20			

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L520264-21	L520264-22	L520264-23	L520264-24
		Description				
		Sampled Date	30-MAY-07	30-MAY-07	03-JUN-07	03-JUN-07
		Sampled Time				
		Client ID	MRF1-MM	MRF1-PD	OCF3-MM	OCF3-BS
Grouping	Analyte					
TISSUE						
Physical Tests	% Moisture (%)		78.6		81.5	86.9
Total Metals	Aluminum (Al)-Total (mg/kg)		11		11	<10
	Aluminum (Al)-Total (mg/kg wwt)			47.3		
	Antimony (Sb)-Total (mg/kg)		<0.050		<0.050	<0.050
	Antimony (Sb)-Total (mg/kg wwt)			<0.010		
	Arsenic (As)-Total (mg/kg)		0.070		0.236	0.066
	Arsenic (As)-Total (mg/kg wwt)			0.166		
	Barium (Ba)-Total (mg/kg)		1.49		2.61	2.72
	Barium (Ba)-Total (mg/kg wwt)			2.66		
	Beryllium (Be)-Total (mg/kg)		<0.30		<0.30	<0.30
	Beryllium (Be)-Total (mg/kg wwt)			<0.10		
	Bismuth (Bi)-Total (mg/kg)		<0.30		<0.30	<0.30
	Bismuth (Bi)-Total (mg/kg wwt)			<0.030		
	Cadmium (Cd)-Total (mg/kg)		<0.030		<0.030	<0.030
	Cadmium (Cd)-Total (mg/kg wwt)			0.0581		
	Calcium (Ca)-Total (mg/kg)		8290		12900	9970
	Calcium (Ca)-Total (mg/kg wwt)			13600		
	Chromium (Cr)-Total (mg/kg)		<0.50		<0.50	<0.50
	Chromium (Cr)-Total (mg/kg wwt)			<0.10		
	Cobalt (Co)-Total (mg/kg)		<0.10		<0.10	<0.10
	Cobalt (Co)-Total (mg/kg wwt)			0.034		
	Copper (Cu)-Total (mg/kg)		1.06		1.15	1.13
	Copper (Cu)-Total (mg/kg wwt)			1.09		
	Lead (Pb)-Total (mg/kg)		<0.10		0.18	<0.10
	Lead (Pb)-Total (mg/kg wwt)			0.039		
	Lithium (Li)-Total (mg/kg)		<0.50		<0.50	<0.50
	Lithium (Li)-Total (mg/kg wwt)			<0.10		
	Magnesium (Mg)-Total (mg/kg)		362		405	370
	Magnesium (Mg)-Total (mg/kg wwt)			473		
	Manganese (Mn)-Total (mg/kg)		3.80		5.15	30.1
	Manganese (Mn)-Total (mg/kg wwt)			11.9		
	Mercury (Hg)-Total (mg/kg)		0.0528		0.245	0.0556
	Mercury (Hg)-Total (mg/kg wwt)			0.0538		
	Molybdenum (Mo)-Total (mg/kg)		<0.050		<0.050	<0.050
	Molybdenum (Mo)-Total (mg/kg wwt)			0.025		
	Nickel (Ni)-Total (mg/kg)		<0.50		<0.50	<0.50
	Nickel (Ni)-Total (mg/kg wwt)			<0.20		
	Selenium (Se)-Total (mg/kg)		<1.0		<1.0	<1.0
	Selenium (Se)-Total (mg/kg wwt)			0.34		

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L520264-1	L520264-2	L520264-3	L520264-4	L520264-5
		Description					
		Sampled Date	06-JUN-07	06-JUN-07	06-JUN-07	06-JUN-07	30-MAY-07
		Sampled Time					
		Client ID	WRF2-RS	WRF2-BS	WRF2-ES	WRF2-JD	OCF1-MM
Grouping	Analyte						
TISSUE							
Total Metals	Strontium (Sr)-Total (mg/kg)		9.00	4.55	14.4		3.86
	Strontium (Sr)-Total (mg/kg wwt)					3.02	
	Thallium (Tl)-Total (mg/kg)		<0.030	<0.030	<0.030		<0.030
	Thallium (Tl)-Total (mg/kg wwt)					<0.010	
	Tin (Sn)-Total (mg/kg)		<0.20	<0.20	<0.20		<0.20
	Tin (Sn)-Total (mg/kg wwt)					<0.050	
	Uranium (U)-Total (mg/kg)		<0.010	<0.010	<0.010		<0.010
	Uranium (U)-Total (mg/kg wwt)					0.0038	
	Vanadium (V)-Total (mg/kg)		<0.50	<0.50	<0.50		<0.50
	Vanadium (V)-Total (mg/kg wwt)					0.19	
	Zinc (Zn)-Total (mg/kg)		30.0	40.0	54.2		164
	Zinc (Zn)-Total (mg/kg wwt)					34.3	

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L520264-6	L520264-7	L520264-8	L520264-9	L520264-10
		Description					
		Sampled Date	30-MAY-07	30-MAY-07	04-JUN-07	04-JUN-07	04-JUN-07
		Sampled Time					
		Client ID	OCF1-BS	OCF1-WS	MRF3-ID	MRF3-PD	MRF3-JD
Grouping	Analyte						
TISSUE							
Total Metals	Strontium (Sr)-Total (mg/kg)			3.77			2.76
	Strontium (Sr)-Total (mg/kg wwt)	2.79			3.84	7.05	
	Thallium (Tl)-Total (mg/kg)		<0.030				<0.030
	Thallium (Tl)-Total (mg/kg wwt)	<0.010			<0.010	<0.010	
	Tin (Sn)-Total (mg/kg)		<0.20				<0.20
	Tin (Sn)-Total (mg/kg wwt)	<0.050			<0.050	<0.050	
	Uranium (U)-Total (mg/kg)		<0.010				<0.010
	Uranium (U)-Total (mg/kg wwt)	<0.0020			<0.0020	<0.0020	
	Vanadium (V)-Total (mg/kg)		<0.50				<0.50
	Vanadium (V)-Total (mg/kg wwt)	<0.10			0.11	0.10	
	Zinc (Zn)-Total (mg/kg)		19.3				33.8
	Zinc (Zn)-Total (mg/kg wwt)	31.3			31.1	50.2	

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L520264-11	L520264-12	L520264-13	L520264-14	L520264-15
		Description					
		Sampled Date	04-JUN-07	06-JUN-07	06-JUN-07	06-JUN-07	06-JUN-07
		Sampled Time					
		Client ID	MRF3-BS	WRF1-ES	WRF1-BS	WRF1-JD	WRF1-MM
Grouping	Analyte						
TISSUE							
Total Metals	Strontium (Sr)-Total (mg/kg)						
	Strontium (Sr)-Total (mg/kg wwt)	6.47	19.2	2.96	3.82	5.69	
	Thallium (Tl)-Total (mg/kg)						
	Thallium (Tl)-Total (mg/kg wwt)	<0.010	<0.010	<0.010	<0.010	<0.010	
	Tin (Sn)-Total (mg/kg)						
	Tin (Sn)-Total (mg/kg wwt)	<0.050	<0.050	<0.050	<0.050	<0.050	
	Uranium (U)-Total (mg/kg)						
	Uranium (U)-Total (mg/kg wwt)	0.0021	0.0051	<0.0020	0.0076	0.0044	
	Vanadium (V)-Total (mg/kg)						
	Vanadium (V)-Total (mg/kg wwt)	<0.10	0.25	<0.10	0.24	0.18	
	Zinc (Zn)-Total (mg/kg)						
	Zinc (Zn)-Total (mg/kg wwt)	58.7	78.9	25.9	35.3	112	

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L520264-16	L520264-17	L520264-18	L520264-19	L520264-20
		Description					
		Sampled Date	03-JUN-07	03-JUN-07	03-JUN-07	30-MAY-07	30-MAY-07
		Sampled Time					
		Client ID	OCF2-PD	OCF2-BS	OCF2-WS	MRF2-MM	MRF2-WS
Grouping	Analyte						
TISSUE							
Total Metals	Strontium (Sr)-Total (mg/kg)		2.80		4.40	4.40	7.64
	Strontium (Sr)-Total (mg/kg wwt)			3.93			
	Thallium (Tl)-Total (mg/kg)		<0.030		<0.030	<0.030	<0.030
	Thallium (Tl)-Total (mg/kg wwt)			<0.010			
	Tin (Sn)-Total (mg/kg)		<0.20		<0.20	<0.20	<0.20
	Tin (Sn)-Total (mg/kg wwt)			<0.050			
	Uranium (U)-Total (mg/kg)		<0.010		<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/kg wwt)			0.0028			
	Vanadium (V)-Total (mg/kg)		<0.50		<0.50	<0.50	<0.50
	Vanadium (V)-Total (mg/kg wwt)			<0.10			
	Zinc (Zn)-Total (mg/kg)		34.5		19.7	77.4	22.1
	Zinc (Zn)-Total (mg/kg wwt)			33.2			

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L520264-21	L520264-22	L520264-23	L520264-24
		Description				
		Sampled Date	30-MAY-07	30-MAY-07	03-JUN-07	03-JUN-07
		Sampled Time				
		Client ID	MRF1-MM	MRF1-PD	OCF3-MM	OCF3-BS
Grouping	Analyte					
TISSUE						
Total Metals	Strontium (Sr)-Total (mg/kg)		5.72		3.60	4.56
	Strontium (Sr)-Total (mg/kg wwt)			9.28		
	Thallium (Tl)-Total (mg/kg)		<0.030		<0.030	<0.030
	Thallium (Tl)-Total (mg/kg wwt)			<0.010		
	Tin (Sn)-Total (mg/kg)		<0.20		<0.20	<0.20
	Tin (Sn)-Total (mg/kg wwt)			0.059		
	Uranium (U)-Total (mg/kg)		<0.010		<0.010	<0.010
	Uranium (U)-Total (mg/kg wwt)			0.0033		
	Vanadium (V)-Total (mg/kg)		<0.50		<0.50	<0.50
	Vanadium (V)-Total (mg/kg wwt)			0.17		
	Zinc (Zn)-Total (mg/kg)		68.6		191	41.6
	Zinc (Zn)-Total (mg/kg wwt)			69.9		

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
HG-DRY-CVAFS-VA	Tissue	Mercury in Tissue by CVAFS	PUGET SOUND PROTOCOLS
<p>This analysis is carried out using procedures adapted from "Recommended Guidelines for Measuring Metals in Puget Sound Marine Water, Sediment, and Tissue Samples" prepared for the United States Environmental Protection Agency and the Puget Sound Water Quality Authority, 1995. Tissue samples are homogenized either mechanically or manually prior to digestion. The hotplate or block digestion involves the use of nitric acid followed by repeated additions of hydrogen peroxide. Instrumental analysis is by atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
HG-WET-CVAFS-VA	Tissue	Mercury in Tissue by CVAFS	PUGET SOUND PROTOCOLS
<p>This analysis is carried out using procedures adapted from "Recommended Guidelines for Measuring Metals in Puget Sound Marine Water, Sediment, and Tissue Samples" prepared for the United States Environmental Protection Agency and the Puget Sound Water Quality Authority, 1995. Tissue samples are homogenized either mechanically or manually prior to digestion. The hotplate or block digestion involves the use of nitric acid followed by repeated additions of hydrogen peroxide. Instrumental analysis is by atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DRY-MS-VA	Tissue	Metals in Tissue by ICPMS	PUGET SOUND PROTOCOLS, EPA 6020A
<p>This analysis is carried out using procedures adapted from "Recommended Guidelines for Measuring Metals in Puget Sound Marine Water, Sediment, and Tissue Samples" prepared for the United States Environmental Protection Agency and the Puget Sound Water Quality Authority, 1995. Tissue samples are homogenized either mechanically or manually prior to digestion. The hotplate or block digestion involves the use of nitric acid followed by repeated additions of hydrogen peroxide. Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-WET-MS-VA	Tissue	Metals in Tissue by ICPMS	PUGET SOUND PROTOCOLS, EPA 6020A
<p>This analysis is carried out using procedures adapted from "Recommended Guidelines for Measuring Metals in Puget Sound Marine Water, Sediment, and Tissue Samples" prepared for the United States Environmental Protection Agency and the Puget Sound Water Quality Authority, 1995. Tissue samples are homogenized either mechanically or manually prior to digestion. The hotplate or block digestion involves the use of nitric acid followed by repeated additions of hydrogen peroxide. Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MOISTURE-TISS-VA	Tissue	% Moisture in Tissues	ASTM METHOD D2794-00
<p>This analysis is carried out gravimetrically by drying the sample at 105 C for a minimum of six hours.</p>			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.



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Vancouver BC, 1988 Triumph Street, V6L 1K5, Tel: 604-253-4188 Toll Free: 1-800-665-0243 Fax: 604-253-6708
 Fort St. John BC, Box 256, 0K3 1L1, 80A Avenue, V1J 6K7, Tel: 250-261-5537 Fax: 250-261-6907
 Grand Prairie AB, R5G 5V1, 111 Street, T8V 5W1, Tel: 780-539-5194 Toll Free: 1-800-668-9878 Fax: 780-513-2181
 Fort McMurray AB, Bay 1, 245 Macleod Dr, T9H 4B5, Tel: 780-791-5534 Fax: 780-791-1586
 Edmonton AB, 9036 - 87th Avenue, T6E 0P5, Tel: 780-433-5227 Toll Free: 1-800-668-9878 Fax: 780-437-2111
 Calgary AB, Bay 7, 1313 - 44th Avenue NE, T2E 6L5, Tel: 403-291-9997 Toll Free: 1-800-668-9878 Fax: 403-291-0288
 Saskatoon SK, 819 - 58th Street East, S7N 6X5, Tel: 306-668-0370 Toll Free: 1-800-667-7545 Fax: 306-668-9993

SEND REPORT TO:

COMPANY: URS Corporation
 ADDRESS: 650 Vivid Georgia Street, Suite 1900
 CITY: Vancouver PROV: BC POSTAL CODE: V2E 4N7
 TEL: (604) 681-1672 ext. 228 FAX: (604) 697-3446
 PROJECT NAME AND NO.: VC Nickel Env Baseline 39548827 40003
 PO NO.:
 REPORT FORMAT: HARD COPY EMAIL - ADDRESS: Keith_Mooney@URS Corp.com
 FAX EXCEL PDF OTHER:

CHAIN OF CUSTODY FORM

PAGE 1 of 2

SAMPLE IDENTIFICATION		DATE / TIME COLLECTED	MATRIX	ANALYSIS REQUESTED:	RELINQUISHED BY:	RECEIVED BY:	DATE:	DATE:
WCF#	YYYY-MM-DD	TIME			DATE	DATE	TIME	TIME
WRF2-RS	2007/06/06		Tissue	Methyls+Mercury	Rob Nielsen	Rob Nielsen	15:30	06/24/07
WRF2-BS	2007/06/06		Tissue		Rob Nielsen	Rob Nielsen	15:30	06/24/07
WRF2-ES	2007/06/06		Tissue		Rob Nielsen	Rob Nielsen	15:30	06/24/07
WRF2-JD	2007/06/06		Tissue		Rob Nielsen	Rob Nielsen	15:30	06/24/07
OCF1-MM	2007/05/30		Tissue		Rob Nielsen	Rob Nielsen	15:30	06/24/07
OCF1-BS	2007/05/30		Tissue		Rob Nielsen	Rob Nielsen	15:30	06/24/07
OCF1-WS	2007/05/30		Tissue		Rob Nielsen	Rob Nielsen	15:30	06/24/07
MRF3-ID	2007/06/04		Tissue		Rob Nielsen	Rob Nielsen	15:30	06/24/07
MRF3-PD	2007/06/04		Tissue		Rob Nielsen	Rob Nielsen	15:30	06/24/07
MRF3-JD	2007/06/04		Tissue		Rob Nielsen	Rob Nielsen	15:30	06/24/07
MRF3-BS	2007/06/04		Tissue		Rob Nielsen	Rob Nielsen	15:30	06/24/07
MRF1-ES	2007/06/06		Tissue		Rob Nielsen	Rob Nielsen	15:30	06/24/07
MRF1-BS	2007/06/06		Tissue		Rob Nielsen	Rob Nielsen	15:30	06/24/07
MRF1-JD	2007/06/06		Tissue		Rob Nielsen	Rob Nielsen	15:30	06/24/07
MRF1-MM	2007/06/06		Tissue		Rob Nielsen	Rob Nielsen	15:30	06/24/07
OCF2-PD	2007/06/03		Tissue		Rob Nielsen	Rob Nielsen	15:30	06/24/07
OCF2-BS	2007/06/03		Tissue	Rob Nielsen	Rob Nielsen	15:30	06/24/07	
OCF2-WS	2007/06/03		Tissue	Rob Nielsen	Rob Nielsen	15:30	06/24/07	
MRF2-MM	2007/05/20		Tissue	Rob Nielsen	Rob Nielsen	15:30	06/24/07	
MRF2-WS	2007/05/20		Tissue	Rob Nielsen	Rob Nielsen	15:30	06/24/07	

TURN AROUND REQUIRED: ROUTINE RUSH SPECIFY DATE: (surcharge may apply)
 SEND INVOICE TO: SAME AS REPORT DIFFERENT FROM REPORT (provide details below)
 INVOICE FORMAT: HARD COPY PDF FAX
 SPECIAL INSTRUCTIONS: Please call Rob Nielsen at 206 619-2252 or 206 619-6945 if all four of the WRF1 samples are too small or there are any other questions.

FOR LAB USE ONLY
 Sample Temperature: _____ °C
 Cooling Method: None Icepacks Ice
 Freezer? Yes No
 RECEIVED BY: Rob Nielsen DATE: 06/19/2007 TIME: 15:30
 RELINQUISHED BY: Rob Nielsen DATE: 06/19/2007 TIME: 15:30
 RECEIVED BY: Rob Nielsen DATE: 06/24/07 TIME: 9:05 AM
 RELINQUISHED BY: Rob Nielsen DATE: 06/24/07 TIME: 8:30 AM
 RECEIVED BY: Rob Nielsen DATE: 06/24/07 TIME: 9:05 AM
 RELINQUISHED BY: Rob Nielsen DATE: 06/24/07 TIME: 8:30 AM

APPENDIX L7.8-B

Certified Laboratory Reports for Fisheries Resources

2008 Results

Certificate of Analysis

Request number: 08-260389
Date Received: 2008-05-22
Date Certificate Issued: 2008-06-29
Certificate Version: 1
 Official Certificate of Analysis
 Preliminary Certificate of Analysis

Client

ROCHE GROUPE-CONSEIL

3075, CHEMIN QUATRE-BOURGEOIS (3e étage)
SAINTE-FOY, QUÉBEC, Canada
G1W 4Y4
Telephone : (418) 654-9600
Fax : (418) 654-9699

P.O. Number	Your project ID.	Project Manager
NA	Minago Project 51516-100	M. Marc Rood

Comments

This version replaces and cancels all earlier version.

NA : Information Not Available

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Request Number: 08-260389

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago Project 51516-100	M. Marc Rood

Sample(s)

Lab. No.	1186501	1186502	1186503	1186504
Your Reference	HLF-1-1	HLF-1-3	HLF-1-4	HLF-1-5
Matrix	Fish	Fish	Fish	Fish
Sampled by	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil
Site sampled	Ontario	Ontario	Ontario	Ontario
Date sampled	2008-05-12	2008-05-12	2008-05-12	2008-05-12
Date received	2008-05-22	2008-05-22	2008-05-22	2008-05-22

Parameter(s)

Method Reference					
Arsenic	Preparation	2008-06-06	2008-06-06	2008-06-06	2008-06-06
QC050-02 / acid dig., calcination, hydride generation, AA MENVIQ 90.02/204-As1.1	Analysis	2008-06-06	2008-06-06	2008-06-06	2008-06-06
	Sequential No.	253533	253533	253533	253533
Arsenic	mg/kg	<0.5	<0.5	<0.5	<0.5
Lead	Preparation	2008-06-10	2008-06-10	2008-06-10	2008-06-10
Acid digestion, GFAA analysis (or AA) MA200, Met.1.0 & SM3113B (or SM 3111B)	Analysis	2008-06-10	2008-06-10	2008-06-10	2008-06-10
	Sequential No.	253543	253543	253543	253543
Lead	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mercury	Preparation	2008-06-08	2008-06-08	2008-06-08	2008-06-08
QC068-96 / acid digestion, AA (cold-vapor) analysis MA 207 - Hg 1.0	Analysis	2008-06-08	2008-06-08	2008-06-08	2008-06-08
	Sequential No.	253489	253489	253489	253489
Mercury	mg/kg	0.67	1.6	0.38	0.88
Selenium	Preparation	2008-06-06	2008-06-06	2008-06-06	2008-06-06
QC050-02 / acid dig., calcination, hydride generation, AA MENVIQ 90.02/204-As1.1	Analysis	2008-06-06	2008-06-06	2008-06-06	2008-06-06
	Sequential No.	253535	253535	253535	253535
Selenium	mg/kg	<0.1	<0.1	0.2	<0.1

Request Number: 08-260389

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago Project 51516-100	M. Marc Rood

	Sample(s)			
Lab. No.	1186505	1186506	1186507	1186508
Your Reference	HLF-1-7	HLF-1-8	HLF-1-9	HLF-1-6
Matrix	Fish	Fish	Fish	Fish
Sampled by	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil
Site sampled	Ontario	Ontario	Ontario	Ontario
Date sampled	2008-05-12	2008-05-12	2008-05-12	2008-05-12
Date received	2008-05-22	2008-05-22	2008-05-22	2008-05-22

Parameter(s)

Method Reference				
Arsenic	Preparation	2008-06-06	2008-06-06	2008-06-06
QC050-02 / acid dig., calcination, hydride generation, AA MENVIQ 90.02/204-As1.1	Analysis	2008-06-06	2008-06-06	2008-06-06
	Sequential No.	253533	253533	253533
Arsenic	mg/kg	<0.5	<0.5	<0.5
Lead	Preparation	2008-06-10	2008-06-10	2008-06-10
Acid digestion, GFAA analysis (or AA) MA200, Met.1.0 & SM3113B (or SM 3111B)	Analysis	2008-06-10	2008-06-10	2008-06-10
	Sequential No.	253543	253543	253543
Lead	mg/kg	< 0.5	< 0.5	< 0.5
Mercury	Preparation	2008-06-08	2008-06-08	2008-06-08
QC068-96 / acid digestion, AA (cold-vapor) analysis MA 207 - Hg 1.0	Analysis	2008-06-08	2008-06-08	2008-06-08
	Sequential No.	253489	253489	253489
Mercury	mg/kg	0.16	0.16	0.09
Selenium	Preparation	2008-06-06	2008-06-06	2008-06-06
QC050-02 / acid dig., calcination, hydride generation, AA MENVIQ 90.02/204-As1.1	Analysis	2008-06-06	2008-06-06	2008-06-06
	Sequential No.	253535	253535	253535
Selenium	mg/kg	<0.1	<0.1	0.2

Request Number: 08-260389

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago Project 51516-100	M. Marc Rood

	Sample(s)			
Lab. No.	1186509	1186510	1186511	1186512
Your Reference	LBF-1-1	LBF-1-3	LBF-1-4	LBF-1-5-1
Matrix	Fish	Fish	Fish	Fish
Sampled by	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil
Site sampled	Ontario	Ontario	Ontario	Ontario
Date sampled	2008-05-12	2008-05-12	2008-05-12	2008-05-12
Date received	2008-05-22	2008-05-22	2008-05-22	2008-05-22

Parameter(s)

Method Reference					
Arsenic	Preparation	2008-06-06	2008-06-06	2008-06-06	2008-06-06
QC050-02 / acid dig., calcination, hydride generation, AA MENVIQ 90.02/204-As1.1	Analysis	2008-06-06	2008-06-06	2008-06-06	2008-06-06
	Sequential No.	253533	253533	253533	253533
Arsenic	mg/kg	<0.5	<0.5	<0.5	<0.5
Lead	Preparation	2008-06-10	2008-06-10	2008-06-10	2008-06-10
Acid digestion, GFAA analysis (or AA) MA200, Met.1.0 & SM3113B (or SM 3111B)	Analysis	2008-06-10	2008-06-10	2008-06-10	2008-06-10
	Sequential No.	253543	253543	253543	253543
Lead	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mercury	Preparation	2008-06-08	2008-06-08	2008-06-08	2008-06-08
QC068-96 / acid digestion, AA (cold-vapor) analysis MA 207 - Hg 1.0	Analysis	2008-06-08	2008-06-08	2008-06-08	2008-06-08
	Sequential No.	253489	253489	253489	253489
Mercury	mg/kg	0.78	0.17	0.06	0.06
Selenium	Preparation	2008-06-06	2008-06-06	2008-06-06	2008-06-06
QC050-02 / acid dig., calcination, hydride generation, AA MENVIQ 90.02/204-As1.1	Analysis	2008-06-06	2008-06-06	2008-06-06	2008-06-06
	Sequential No.	253535	253535	253535	253535
Selenium	mg/kg	0.2	0.5	0.3	0.3

Request Number: 08-260389

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago Project 51516-100	M. Marc Rood

	Sample(s)			
Lab. No.	1186513	1186514	1186515	1186516
Your Reference	LBF-1-5-2	LBF-1-7	LBF-1-9	CLF-2
Matrix	Fish	Fish	Fish	Fish
Sampled by	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil
Site sampled	Ontario	Ontario	Ontario	Ontario
Date sampled	2008-05-12	2008-05-12	2008-05-12	2008-05-12
Date received	2008-05-22	2008-05-22	2008-05-22	2008-05-22

Parameter(s)

Method Reference					
Arsenic	Preparation	2008-06-06	2008-06-06	2008-06-06	2008-06-06
QC050-02 / acid dig., calcination, hydride generation, AA MENVIQ 90.02/204-As1.1	Analysis	2008-06-06	2008-06-06	2008-06-06	2008-06-06
	Sequential No.	253533	253533	253533	253533
Arsenic	mg/kg	<0.5	<0.6	<0.5	<0.5
Lead	Preparation	2008-06-10	2008-06-10	2008-06-10	2008-06-10
Acid digestion, GFAA analysis (or AA) MA200, Met.1.0 & SM3113B (or SM 3111B)	Analysis	2008-06-10	2008-06-10	2008-06-10	2008-06-10
	Sequential No.	253543	253543	253543	253543
Lead	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mercury	Preparation	2008-06-08	2008-06-08	2008-06-08	2008-06-08
QC068-96 / acid digestion, AA (cold-vapor) analysis MA 207 - Hg 1.0	Analysis	2008-06-08	2008-06-08	2008-06-08	2008-06-08
	Sequential No.	253489	253489	253489	253489
Mercury	mg/kg	0.08	0.29	0.13	0.17
Selenium	Preparation	2008-06-06	2008-06-06	2008-06-06	2008-06-06
QC050-02 / acid dig., calcination, hydride generation, AA MENVIQ 90.02/204-As1.1	Analysis	2008-06-06	2008-06-06	2008-06-06	2008-06-06
	Sequential No.	253535	253535	253535	253535
Selenium	mg/kg	0.4	<0.2	0.2	0.2

Request Number: 08-260389

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago Project 51516-100	M. Marc Rood

	Sample(s)			
Lab. No.	1186517	1186518	1186519	1186520
Your Reference	CLF-3	CLF-4	CLF-1	CLF-6
Matrix	Fish	Fish	Fish	Fish
Sampled by	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil	Mme Brigitte Dutil
Site sampled	Ontario	Ontario	Ontario	Ontario
Date sampled	2008-05-12	2008-05-12	2008-05-12	2008-05-12
Date received	2008-05-22	2008-05-22	2008-05-22	2008-05-22

Parameter(s)					
Method Reference					
Arsenic	Preparation	2008-06-06	2008-06-06	2008-06-06	2008-06-06
QC050-02 / acid dig., calcination, hydride generation, AA MENVIQ 90.02/204-As1.1	Analysis	2008-06-06	2008-06-06	2008-06-06	2008-06-06
	Sequential No.	253533	253533	253533	253533
Arsenic	mg/kg	<0.5	<0.5	<0.5	<0.5
Lead	Preparation	2008-06-10	2008-06-10	2008-06-10	2008-06-10
Acid digestion, GFAA analysis (or AA) MA200, Met.1.0 & SM3113B (or SM 3111B)	Analysis	2008-06-10	2008-06-10	2008-06-10	2008-06-10
	Sequential No.	253543	253543	253543	253543
Lead	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mercury	Preparation	2008-06-08	2008-06-08	2008-06-08	2008-06-08
QC068-96 / acid digestion, AA (cold-vapor) analysis MA 207 - Hg 1.0	Analysis	2008-06-08	2008-06-08	2008-06-08	2008-06-08
	Sequential No.	253489	253489	253489	253489
Mercury	mg/kg	0.22	0.27	0.42	0.38
Selenium	Preparation	2008-06-06	2008-06-06	2008-06-06	2008-06-06
QC050-02 / acid dig., calcination, hydride generation, AA MENVIQ 90.02/204-As1.1	Analysis	2008-06-06	2008-06-06	2008-06-06	2008-06-06
	Sequential No.	253535	253535	253535	253535
Selenium	mg/kg	0.1	0.1	<0.1	0.1

Note: Results pertain only to the samples submitted for analysis.

François Aubé, chemist



Certificate of Analysis

Request Number: **08-260389**

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago Project 51516-100	M. Marc Rood

Quality Control Results (CQ)

Parameters (Sequential ID No.)	Units	RDL	Blank	Certified Control	
				Result	Expected Range
Arsenic					
Sequential ID No.: 253533					
Arsenic	mg/kg	<0.05	<0.05	NA	1.8-3.4
Mercury					
Sequential ID No.: 253489					
Mercury	mg/kg	<0.01	<0.01	NA	2.1-4
Lead					
Sequential ID No.: 253543					
Lead	mg/kg	<0.05	<0.05	NA	NA
Selenium					
Sequential ID No.: 253535					
Selenium	mg/kg	<0.01	<0.01	NA	0.6-1.2

Comments

Sequential ID no. 253543 : Valeur attendue de l'échantillon de contrôle : 1.25 mg/kg (±20%); valeur obtenue : 1.1 mg/kg

Certificate of Analysis

Request Number: 08-260389

Client: **ROCHE GROUPE-CONSEIL**

P.O. Number	Your Project ID.	Project Manager
NA	Minago Project 51516-100	M. Marc Rood

Quality Control Results - Part 2

Parameters (Sequential ID No.)	Units	Duplicate		Difference (%)
		Value 1	Value 2	
Arsenic				
Sequential ID No: 253533	(Sample no)		(1186502)	
Arsenic	mg/kg	<0.5	<0.5	-
Lead				
Sequential ID No: 253543	(Sample no)		(1186509)	
Lead	mg/kg	< 0.5	< 0.5	-
Mercury				
Sequential ID No: 253489	(Sample no)		(1186506)	
Mercury	mg/kg	0.16	0.12	28.6
Selenium				
Sequential ID No: 253535	(Sample no)		(1186502)	
Selenium	mg/kg	<0.1	<0.1	-

Comments

Sequential ID no. 253543 : Valeur attendue de l'échantillon de contrôle : 1.25 mg/kg ($\pm 20\%$); valeur obtenue : 1.1 mg/kg

Bodycote Materials Testing Canada Inc. (and Subsidiaries) And Bodycote Materials Testing, Inc., A Delaware Corporation (and Subsidiaries)

Standard Terms And Conditions Of Contract ("the Conditions")

TERMS 1 - Rev. 5 2006-08-16

INTERPRETATION

1.1. In these Conditions the following expressions shall (unless the context requires) have the following meanings: Client means the person, firm or company to whom a Quotation is addressed or for whom a Test or any Services is carried out.

Company means the member of the Bodycote Materials Group that is providing the Services, being any of Bodycote Materials Testing Contract Inc., Bodycote Materials Testing Inc. a Delaware Corporation and/or any of their respective subsidiaries, as applicable.

Contract means these Conditions including the Quotation or Proposal, together with these Conditions.

Subsidiaries means means the Company, its affiliates and subsidiaries, and its and their respective directors, officers, employees, agents and independent contractors. "Price" or "price list" means the price stated in the Quotation or agreed with the Client in writing together with all other sums due pursuant to these Conditions.

"Proposal" means the Company's proposal of which these Conditions form part and shall be deemed incorporated by reference as if fully set herein.

Quotation means the Company's quotation (whether written or oral) of which these Conditions form a part and shall be deemed incorporated by reference as if fully set forth herein.

Report means any report, recommendation or the like issued by the Company in respect of the Services.

Sample means any material supplied by the Client to form the basis of a Test.

Services means the services specified in the Quotation or Proposal.

Test means any testing, analysis, assay, or the like specified in a Quotation or Proposal.

Test Certificate means any test certificate, recommendation or the like issued by the Company in respect of a Test.

QUOTATION

2.1. The Quotation constitutes a revocable offer by the Company to provide Services and/or carry out a Test subject to the Conditions and is open for acceptance for ninety days only from the date hereof unless stated otherwise on the written Quotation or Proposal or unless revoked prior to acceptance. Acceptance by the Client must include written authorization, including a Purchase Order, or advance payment.

2.2. Except in accordance with these Conditions no variation of the Contract will be accepted unless agreed in writing by the Company.

2.3. No condition, statement or representation contained in any advertisement or brochure or in any trade or promotional circular or other literature, nor the terms or conditions of any trade association or other body, or which would or might but for this sub-paragraph be implied or incorporated by custom or trade, usage, negotiations, course of dealing or otherwise shall be deemed to be incorporated in the Contract and all of the same are hereby expressly excluded from the Contract. PRICE

3.1. The Price is based on information available to the Company at the date of the Quotation. If during the period of the Contract there shall be any variation in the cost of materials, labour or otherwise to the Company, the Price may, in the absolute discretion of the Company, be adjusted to take account of such variation.

3.2. In addition to the amount specified in the Quotation the following shall be in addition to the Price and payable if imposed on the Company or otherwise appropriate:

(1) any applicable value added tax, excise tax, goods and services tax, sales tax, use tax or other applicable tax;

(2) all bank charges;

(3) package, insurance, freight and storage charges incurred on behalf of the Client, whether on the Company's premises or elsewhere, and to include sample charges on the Company's premises, if any. Sample or materials supplied by the Client are not removed from the Company's premises within seven days of the date of notification to the Client that they are ready for collection;

(4) insurance incurred by the Company, in its absolute discretion, in respect of any property belonging to the Client in the possession of the Company;

(5) the cost of all sub-contractors engaged by the Company unless included in the Quotation; and

(6) any additional costs incurred by the Company in accordance with these Conditions.

PAYMENT

4.1. The Price shall be paid to the Company in full without any deduction, set-off or counterclaim within thirty days of the date of the Quotation or invoice and in default of payment within the thirty days the Company may suspend any further Services and/or Tests being carried out by the Client and the amount outstanding from time to time shall bear interest (both before and after any judgment) at a rate equal to the lesser of 2.5% per annum or the maximum rate permitted by law until payment in full is made (but not in addition to the amount in full) for the purpose of calculating interest to be extended in permitted by law). Late fees shall be in addition to (and not in lieu of) other remedies for default available to the Company.

4.2. All payments due to the Company shall be payable within the specified time (respectively of whatever or, for the Client's default, but not the date of the Company's invoice) of the date that the invoice is due. The Client's failure to pay the invoice or to make payment when requested by the Company, or as set out in the invoice, shall constitute a breach of contract and shall entitle the Company to suspend the right not to initiate work or perform Services or Tests until such credit facilities have been established. Credit terms may include payment of outstanding invoices, preparation, certified application in the Quotation and submission of a completed credit application by the Client including a release to allow the Company to draw upon a third party credit checking agency.

EXECUTION OF TESTS

5.1. The Test shall be carried out singly unless prior written instructions from the Client are received for multiples or unless the Company considers replicates are necessary or desirable. The Company reserves the right to change or re-apply tests even if the original result is confirmed.

5.2. The Client shall supply as much information as possible about each Sample in order to assist in achieving an efficient Service. Where Samples are non-routinely described and the Company is involved in additional work, the Company reserves the right of charge for such additional work.

5.3. Unless specific prior instructions in writing are received by the Company, the Sample shall be carried out on the Sample in the state in which the Sample is received. The Company reserves the right of charge for any work required to be carried out to the Sample prior to the performance of any Test.

5.4. Methods of carrying out the Test shall be at the sole discretion of the Company unless specific prior instructions in writing are received by the Client specifying a particular procedure which are agreed to by the Company. Charges for such special procedures will be negotiated and agreed to between the Company and the Client prior to carrying out the Test.

5.5. A general description of the method used in the Test shall be given verbally on request. Where written descriptions of detailed procedures are requested, whether as part of the Certificate or issued separately, the Company reserves the right to make an additional charge. If the method needed in the Test represents the end product of development work carried out at the Company's expense, the method shall only be revealed at the discretion of the Company.

5.6. If special standards or equipment are used in the Test, they shall be invoiced in addition to the charge of the Test itself.

5.7. The Company may, at its sole discretion, undertake to give priority in carrying out a particular Test. A surcharge may be imposed by the Company for the carrying out of priority work (Details of these arrangements will be issued by the Company on request.)

SAMPLES SUBJECT OF LEGAL PROCEEDINGS

6.1. The Client shall notify the Company in writing if the Services to be performed are in support of pending or contemplated litigation prior to the Company commencing the Service. If that fact is not disclosed to the Company, the Company shall not necessarily be prepared to provide expert testimony. Should the Client be legally compelled to perform other work such as giving of evidence under a summons to witness the Client shall pay a fee based on standard hourly rates in effect.

DISCLAIMER OF LIABILITY AND LIMITATION OF WARRANTY

7.1. The Company's total liability (if any) to the Client (excepting always liabilities in respect of personal injury or death caused by the gross negligence or willful misconduct of the Company's operations), whether in contract, tort, delict, quasi delict, or otherwise in respect of any loss, direct or indirect or consequential or damage (howsoever caused) or death or indirectly arising from any breach of Contract, or from any negligent act or omission of any Identified Person, or from any breach by any Identified Person of any duty owed to the Client in connection with the Contract shall be limited to the Price.

7.2. All Services and/or Tests are undertaken in good faith, to a reasonable standard of care and on a confidential basis. Reports and Test Certificates are issued on the basis of information known to the Company at the time the Services and/or Tests are carried out. Although the Company will use all reasonable endeavors to insure accuracy, the Company's acceptance of the Client's information and materials submitted to the Company, Save as required by law, no representation or warranty, whether expressed or implied or otherwise or of the accuracy of a Test Certificate or a Report is given by the Company. The Company makes no claim for warranty, express implied, except as is expressly set forth herein and such claim warrants being hereby disclaimed.

7.3. All Reports and Test Certificates are prepared on the basis that:

(i) there is no responsibility or liability to any person or body other than the Client;

(ii) they are not carried out for any particular purpose and no statement is to be deemed, in any circumstances to be of or give rise to a representation, undertaking, warranty or contractual condition, unless specifically stated; and

(iii) they are determined solely by the professional analysis undertaken by the Company's staff on each individual Contract and any forecasts by the Company of the results is an estimate only and the Company is entitled to the right of Price recoupment of the results or conclusions reached.

7.4. All time limits, if any, are estimates and no undertaking is given to carry out the Services and/or Tests to dispatch any Test Certification within any period of time.

7.5. The Company shall not be responsible for carrying out the Client for the consequences of any delay in arriving at the Services and/or Tests or in delivering the Report and/or Test Certificate arising from any strike, lockout, trade dispute, accident, fire, inclement weather, flood, tempest, war, or act of God or any other matter or thing beyond its reasonable control.

7.6. No Identified Person shall be liable to the Client for any amount exceeding the Price except on the recovery of the results set out in a Test Certificate or Report hereunder. OBLIGATIONS OF CLIENT

8.1. The Client shall not reveal or make available the details of any Report or Test Certificate to any third party (see also 10.2) without first obtaining the prior written consent of the Company, however the Company shall have the right to disclose all information it possesses regarding the Contract, the Services and the Test results if required by court order or valid subpoena and the Company shall incur no liability to the Client resulting from such disclosures.

8.2. The Client shall be bound to inform the Company in writing prior to the carrying out of any Test that a sample is of a dangerous or unstable nature and shall indemnify the Identified Persons from and against all loss or damage suffered by the Identified Persons, including, without limiting the generality of the foregoing, all damage to the Identified Persons' property and all claims in respect of injury to or deaths of any of the Identified Persons or of any third party, directly or indirectly arising from or in connection with the failure of the Client to inform the Company of the dangerous or unstable nature of Sample.

8.3. The Client shall indemnify the Company from and against all loss or damage suffered or incurred by the Company, whether to or at the instance of the Client or its employees, sub-contractors or agents or third parties or otherwise directly or indirectly arising from or in connection with the carrying out of the Services and/or Tests except to the extent such loss or damage is caused by the gross negligence or willful misconduct of the Company.

8.4. Unless otherwise agreed the Client will be responsible for providing a safe system of work for the Company and its employees, agents and sub-contractors while providing Services and the Client shall be responsible for all costs necessarily required in discharging this obligation and shall indemnify the Identified Persons in respect of all claims, costs, damages, and loss suffered as a result of any breach by the Client hereof.

RISK AND PROXY IN RELATION TO TESTS

9.1. The risk of loss of or damage to the Sample shall remain with the Client at all times.

9.2. Samples of a stable nature shall be retained for up to thirty days from the date of their receipt and then destroyed, or at the Company's option stored at the Client's expense unless otherwise agreed to in writing. Samples shall be returned to the Client only if given instructions in writing in that regard after receipt by the Company and the Client shall be charged for all costs associated therewith (including postage).

9.3. Where Samples are, in the sole opinion of the Company, too bulky or too unstable to allow long term storage, it will be at the absolute discretion of the Company as to the length of time such Samples are kept.

9.4. All copyright in client reports and other scientific, documentary or primary data produced during any Test and in all Reports or Test Certificates shall belong to and remain the property of the Company.

9.5. The Report or Test Certificate refers only to the particular Samples, units, materials, instruments and/or other subject used and returned. Similar analyses may be done on other samples and right of copyright and analysis programs might be shared.

9.6. Client agrees to fund and hold the programs mentioned by or referenced against any of the Identified Persons resulting from or caused by any of the Identified Persons relating to the return or disposal of hazardous materials as defined by the law of the jurisdiction of the Services. Client warrants that it will at all times comply with all applicable laws, including, without limitation, environmental laws, rules and regulations of appropriate governmental agencies and authorities in the jurisdiction of the location of the Company's facility that is performing the Services. If the Client intends to deliver a Sample that contains a hazardous substance, hazardous chemical, or the transmission, use or disposal of the same is regulated by the law ("Hazardous Material"), the Client agrees to notify the Company in advance of the delivery and agrees to comply with all applicable laws, rules and regulations respecting the delivery and handling of the same. OWNERSHIP, COPYRIGHT AND PATENTS IN RELATION TO SERVICES

10.1. Ownership and copyright in the Report and any other Reports, results, or information established or collected by the Company in the course of the Services shall remain with the Company and the Client has discharged all its obligations under the Contract, including payment of the Price, whereupon the title, ownership and copyright shall pass to the Client unless the Company is forced to part with any such results, reports or information of any nature to any body exercising its statutory or judicial powers.

10.2. The Client hereby warrants that it will not use the Report or any other reports, results, or information supplied by the Company for the purposes of advertisement or publication to third parties. Any such issue of the Report or other reports, results or information is permitted under the Contract only with the prior written consent of the Company who shall have the right to increase the Price where it consents to such advertisement and/or publication. If consent is granted the Report or Test Certificate may be reproduced only in its entirety.

10.3. Unless otherwise indicated by the Client in writing, it is understood that electronic transfer (including fax, Email, etc) of the Quotation, Report or Test Certificate by the Company is acceptable.

SUB-CONTRACTING

11. The Company shall be entitled, in its absolute discretion, to sub-contract the whole or any part of the Services and/or Test.

TERMINATION

12.1. The Client shall not terminate the Contract without the written consent of the Company which may be subject to such terms as in the Company's absolute discretion including compensating the Company for all loss it may suffer as a result of termination.

12.2. The Company may terminate the Contract and any other contract with the Client forthwith, without prejudice to any other right or remedy available to the Company and without the Company incurring any liability to the Client, in the following circumstances:

(i) if the Client shall commit a breach of any terms of the Contract or any other contract with the Company unless such breach is capable of remedy and the Client has failed to comply with a notice regarding remedy within the period specified in the said notice;

(ii) without prejudice to the foregoing, if the Client fails to make payment of the Price within the specified time;

(iii) the Client makes any voluntary arrangement with its creditors or becomes subject to an administrator order or (being individual or firm) becomes bankrupt or insolvent or (being subject to any bankruptcy or recovery law or proceedings or (being a company) goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction),

(iv) an entrepreneur takes possession, or a receiver is appointed, of the Company or assets of the Client,

(v) the Client ceases, or threatens to cease, to carry on business, or

(vi) the Company reasonably believes that any of the events mentioned in (iii), (iv), and (v) above is about to occur in relation to the Client and notifies the Client accordingly.

12.3. Other than as required by law, upon termination of the Contract by the Company pursuant to Section 12.2, the Contract imposes no further obligations upon the Client and the Client shall be deemed to have discharged all its obligations (including any obligation to indemnify or to provide any security) under the Contract in full and to have satisfied all its obligations under the Contract in respect of the period up to and including the effective date of such termination and (if the provisions of Sections 1.1, 7.2, 7.4, 7.5, 8.1, 8.2, 8.3, 8.4, 9.1, 9.4, 9.6, 10.1, 10.2, 12.1, 12.2, 12.3, and Sections 13.1 to 13.7 (including) shall survive any such termination, in the event of termination of the Contract under Section 12.2 or in the event that the Company institutes legal proceedings for the enforcement or interpretation of the provisions of this Contract, the Client agrees to reimburse the Identified Persons for the Identified Persons' reasonable legal fees and court costs incurred in connection therewith. NOTICES

13. All notices to be served by one party on the other shall be deemed duly delivered or served if any business days after posting if posted by first class or airmail or pre-paid post to the address of the other party or on the same day as transmission if sent by facsimile.

GENERAL

14. In the event of one or more of the provisions of these Conditions being held by a competent authority to be invalid, illegal, or unenforceable, in whole or in part, the validity, legality or enforceability of the remaining provisions of these Conditions and the remainder of the provision in question shall not be affected thereby.

15. Notwithstanding to the Company of any breach of the Contract by the Client shall be considered as a waiver of any subsequent breach of the same or any other provision.

16. The construction, validity, and performance of the Contract shall be governed by and entered under the laws of the Province (or State if in the United States of America) in which the Company's facility issuing the Report or Test Certificate is located. Any claim made against the Company's facility shall be heard in the jurisdiction in which the Company's facility issuing the Report or Test Certificate is located.

17. The Contract contains the entire agreement between the Company and the Client with respect to the subject matter hereof and supersedes all prior agreements, Quotations, Proposals and other communications relating to the subject matter hereof and there are no other understandings or agreements, verbal or otherwise, in relation hereto between the Company and the Client. This Contract will control over any contradictory or inconsistent provision contained in any document provided by the Client unless expressly referred to in the Contract.

18. ADDITIONAL REQUIREMENTS ON COMPANIES WEBSITE

(a) The Company's internet website, www.bodycote-testing.com, may contain specific additional requirements for certain items covered by this Contract, including specifications, procedures, directions and instructions. Any such requirements are hereby incorporated by reference herein, shall be deemed to form part of this Contract and are binding on the Client and the Company. The Company may periodically update such requirements by posting revisions thereto on its internet website and in such event the Client will find the Client of such updates and revisions. In the event of any inconsistency between this Contract and the Company's internet website, the terms of the Contract shall prevail, unless the requirements specified on such website expressly provide otherwise.

(b) The Company may modify these Conditions with respect to future Quotations, Proposals and purchase orders, at any time and from time to time, by posting website terms and conditions to its internet website at www.bodycote-testing.com, and such revised Conditions shall apply to all Quotations, Proposals and purchase orders issued thereafter.

THE COMPANY MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, EXCEPT AS IS EXPRESSLY SET FORTH HEREIN, ALL SUCH OTHER WARRANTIES BEING HEREBY DISCLAIMED.

L7.8-25

APPENDIX L7.9

Certified Laboratory Reports for Vegetation



Environmental Division

ANALYTICAL REPORT

URS CANADA INC.

ATTN: KEITH MOUNTJOY

Reported On: 09-NOV-07 10:24 AM

P.O. BOX 11507
1900 - 650 WEST GEORGIA STREET
VANCOUVER BC V6B 4N7

Lab Work Order #: L552454

Date Received: 11-SEP-07

Project P.O. #:

Job Reference: 39548827.20001

Legal Site Desc:

CofC Numbers:

Other Information:

Comments:



Joyce Chow
General Manager, Vancouver

For any questions about this report please contact your Account Manager:

Jerry Holzbecher

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY.
ALL SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU
REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

ALS Canada Ltd.
Part of the **ALS Laboratory Group**

1988 Triumph Street, Vancouver, BC V5L 1K5
Phone: +1 604 253 4188 Fax: +1 604 253 6700 www.alsglobal.com
A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L552454-1	L552454-2	L552454-3	L552454-4	L552454-5
		Description					
		Sampled Date	05-SEP-07	05-SEP-07	05-SEP-07	05-SEP-07	06-SEP-07
		Sampled Time	13:15	15:26	16:16	16:16	10:46
		Client ID	MN1S1 SALIX PLANIFOLIA	MN2S2 CLADINA MITIS	MN3S3 LEDUM GROENLANDIC UM	MN3S3D LEDUM GROENLANDIC UM	MN4S4 BETULA GLANDULOSA
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)		54.3	26.0	45.0	45.5	41.0
Total Metals	Aluminum (Al)-Total (mg/kg)		40	178	38	35	20
	Aluminum (Al)-Total (mg/kg wwt)		18.5	132	21.0	18.8	11.9
	Antimony (Sb)-Total (mg/kg)		<0.050	<0.050	<0.10	<0.050	<0.050
	Antimony (Sb)-Total (mg/kg wwt)		<0.010	0.011	<0.020	<0.010	<0.010
	Arsenic (As)-Total (mg/kg)		<0.050	0.280	<0.10	0.060	<0.050
	Arsenic (As)-Total (mg/kg wwt)		0.015	0.208	0.026	0.032	0.029
	Barium (Ba)-Total (mg/kg)		7.44	5.13	150	78.4	13.3
	Barium (Ba)-Total (mg/kg wwt)		3.40	3.79	82.5	42.7	7.87
	Beryllium (Be)-Total (mg/kg)		<0.30	<0.30	<0.60	<0.30	<0.30
	Beryllium (Be)-Total (mg/kg wwt)		<0.10	<0.10	<0.20	<0.10	<0.10
	Bismuth (Bi)-Total (mg/kg)		<0.30	<0.30	<0.60	<0.30	<0.30
	Bismuth (Bi)-Total (mg/kg wwt)		<0.030	<0.030	<0.060	<0.030	<0.030
	Cadmium (Cd)-Total (mg/kg)		4.06	0.116	<0.060	0.042	0.066
	Cadmium (Cd)-Total (mg/kg wwt)		1.85	0.0856	0.017	0.0228	0.0391
	Calcium (Ca)-Total (mg/kg)		21500	790	8140	5830	5390
	Calcium (Ca)-Total (mg/kg wwt)		9830	585	4480	3170	3180
	Chromium (Cr)-Total (mg/kg)		<0.50	<0.50	<1.0	<0.50	<0.50
	Chromium (Cr)-Total (mg/kg wwt)		0.16	0.25	<0.20	0.13	0.13
	Cobalt (Co)-Total (mg/kg)		<0.10	<0.10	<0.20	<0.10	<0.10
	Cobalt (Co)-Total (mg/kg wwt)		0.035	0.042	<0.040	<0.020	0.041
	Copper (Cu)-Total (mg/kg)		3.77	1.71	3.63	4.22	1.96
	Copper (Cu)-Total (mg/kg wwt)		1.72	1.26	2.00	2.30	1.16
	Lead (Pb)-Total (mg/kg)		0.16	0.75	<0.20	0.24	0.17
	Lead (Pb)-Total (mg/kg wwt)		0.071	0.557	0.092	0.132	0.103
	Lithium (Li)-Total (mg/kg)		<0.50	<0.50	<1.0	<0.50	<0.50
	Lithium (Li)-Total (mg/kg wwt)		<0.10	<0.10	<0.20	<0.10	<0.10
	Magnesium (Mg)-Total (mg/kg)		4030	321	1750	1480	1180
	Magnesium (Mg)-Total (mg/kg wwt)		1840	238	962	807	693
	Manganese (Mn)-Total (mg/kg)		39.5	60.1	1210	242	91.9
	Manganese (Mn)-Total (mg/kg wwt)		18.1	44.5	667	132	54.2
	Mercury (Hg)-Total (mg/kg)		0.0131	0.0177	0.0089	0.0104	0.0052
	Mercury (Hg)-Total (mg/kg wwt)		0.0060	0.0131	0.0049	0.0057	0.0031
	Molybdenum (Mo)-Total (mg/kg)		<0.050	0.066	<0.10	0.076	0.094
	Molybdenum (Mo)-Total (mg/kg wwt)		0.017	0.048	0.042	0.042	0.055
	Nickel (Ni)-Total (mg/kg)		<0.50	<0.50	<1.0	<0.50	<0.50
	Nickel (Ni)-Total (mg/kg wwt)		0.18	0.28	<0.20	<0.10	<0.10
	Selenium (Se)-Total (mg/kg)		<1.0	<1.0	<2.0	<1.0	<1.0
	Selenium (Se)-Total (mg/kg wwt)		<0.20	<0.20	<0.40	<0.20	<0.20

ALS LABORATORY GROUP ANALYTICAL REPORT

		Sample ID	L552454-6	L552454-7	L552454-8	L552454-9	L552454-10
		Description					
		Sampled Date	06-SEP-07	06-SEP-07	06-SEP-07	06-SEP-07	06-SEP-07
		Sampled Time	11:25	12:37	12:54	13:47	13:47
		Client ID	MN5S5	MN6S6	MN6S7	MN7S8	MN7S9
Grouping	Analyte		CHAMAEDAPHNE	EQUISETUM FLUVIATILE	BETULA GLANDULOSA	ANDROMEDA POLIFOLIA	LARIX LARICINA
TISSUE			CALYCVLATA				
Physical Tests	% Moisture (%)		40.7	76.7	43.5	52.1	46.4
Total Metals	Aluminum (Al)-Total (mg/kg)		86	12	20	14	75
	Aluminum (Al)-Total (mg/kg wwt)		50.9	2.8	11.2	6.6	40.3
	Antimony (Sb)-Total (mg/kg)		<0.10	<0.050	<0.050	<0.050	<0.050
	Antimony (Sb)-Total (mg/kg wwt)		<0.020	<0.010	<0.010	<0.010	<0.010
	Arsenic (As)-Total (mg/kg)		<0.10	0.068	<0.050	0.082	0.144
	Arsenic (As)-Total (mg/kg wwt)		<0.020	0.016	0.018	0.039	0.077
	Barium (Ba)-Total (mg/kg)		41.5	39.0	45.4	78.3	28.4
	Barium (Ba)-Total (mg/kg wwt)		24.6	9.08	25.7	37.5	15.2
	Beryllium (Be)-Total (mg/kg)		<0.60	<0.30	<0.30	<0.30	<0.30
	Beryllium (Be)-Total (mg/kg wwt)		<0.20	<0.10	<0.10	<0.10	<0.10
	Bismuth (Bi)-Total (mg/kg)		<0.60	<0.30	<0.30	<0.30	<0.30
	Bismuth (Bi)-Total (mg/kg wwt)		<0.060	<0.030	<0.030	<0.030	<0.030
	Cadmium (Cd)-Total (mg/kg)		<0.060	<0.030	0.093	<0.030	0.088
	Cadmium (Cd)-Total (mg/kg wwt)		0.023	<0.0050	0.0523	0.0124	0.0473
	Calcium (Ca)-Total (mg/kg)		3600	33600	6930	5830	4060
	Calcium (Ca)-Total (mg/kg wwt)		2130	7820	3920	2790	2180
	Chromium (Cr)-Total (mg/kg)		<1.0	0.78	<0.50	<0.50	<0.50
	Chromium (Cr)-Total (mg/kg wwt)		<0.20	0.18	0.11	0.12	0.17
	Cobalt (Co)-Total (mg/kg)		<0.20	<0.10	<0.10	<0.10	<0.10
	Cobalt (Co)-Total (mg/kg wwt)		<0.040	<0.020	<0.020	<0.020	<0.020
	Copper (Cu)-Total (mg/kg)		4.41	0.457	2.39	2.00	2.29
	Copper (Cu)-Total (mg/kg wwt)		2.61	0.106	1.35	0.959	1.23
	Lead (Pb)-Total (mg/kg)		<0.20	<0.10	0.23	<0.10	0.79
	Lead (Pb)-Total (mg/kg wwt)		0.092	<0.020	0.132	0.044	0.425
	Lithium (Li)-Total (mg/kg)		<1.0	<0.50	<0.50	<0.50	<0.50
	Lithium (Li)-Total (mg/kg wwt)		<0.20	<0.10	<0.10	<0.10	<0.10
	Magnesium (Mg)-Total (mg/kg)		876	8250	1920	1670	931
	Magnesium (Mg)-Total (mg/kg wwt)		519	1920	1080	801	499
	Manganese (Mn)-Total (mg/kg)		981	427	55.6	254	329
	Manganese (Mn)-Total (mg/kg wwt)		582	99.5	31.4	122	176
	Mercury (Hg)-Total (mg/kg)		<0.0050	0.0144	0.0102	0.0159	0.0406
	Mercury (Hg)-Total (mg/kg wwt)		0.0022	0.0034	0.0058	0.0076	0.0218
	Molybdenum (Mo)-Total (mg/kg)		<0.10	3.14	0.183	0.051	<0.050
	Molybdenum (Mo)-Total (mg/kg wwt)		0.028	0.732	0.103	0.024	0.015
	Nickel (Ni)-Total (mg/kg)		<1.0	<0.50	<0.50	<0.50	<0.50
	Nickel (Ni)-Total (mg/kg wwt)		0.22	<0.10	<0.10	<0.10	0.11
	Selenium (Se)-Total (mg/kg)		<2.0	<1.0	<1.0	<1.0	<1.0
	Selenium (Se)-Total (mg/kg wwt)		<0.40	<0.20	<0.20	<0.20	<0.20

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		Sample ID	L552454-11	L552454-12	L552454-13	L552454-14	L552454-15
		Description					
		Sampled Date	06-SEP-07	06-SEP-07	06-SEP-07	06-SEP-07	06-SEP-07
		Sampled Time	13:47	14:40	14:40	15:13	15:43
		Client ID	MN7S9D LARIX LARICINA	MN8S10 EVERNIA MESOMORPHA	MN8S11 ALNUS CRISPA	MN9S12 SALIX BEBBIANA	MN10S13 BIDENS CERNUA
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)		42.1	7.10	47.5	53.4	76.2
Total Metals	Aluminum (Al)-Total (mg/kg)		96	154	27	21	65
	Aluminum (Al)-Total (mg/kg wwt)		55.6	143	14.2	9.9	15.6
	Antimony (Sb)-Total (mg/kg)		<0.050	<0.050	<0.050	<0.050	<0.050
	Antimony (Sb)-Total (mg/kg wwt)		<0.010	0.018	<0.010	<0.010	<0.010
	Arsenic (As)-Total (mg/kg)		0.167	0.547	0.058	<0.050	0.439
	Arsenic (As)-Total (mg/kg wwt)		0.096	0.508	0.031	0.023	0.104
	Barium (Ba)-Total (mg/kg)		32.4	5.03	6.12	7.62	5.40
	Barium (Ba)-Total (mg/kg wwt)		18.7	4.67	3.22	3.55	1.29
	Beryllium (Be)-Total (mg/kg)		<0.30	<0.30	<0.30	<0.30	<0.30
	Beryllium (Be)-Total (mg/kg wwt)		<0.10	<0.10	<0.10	<0.10	<0.10
	Bismuth (Bi)-Total (mg/kg)		<0.30	<0.30	<0.30	<0.30	<0.30
	Bismuth (Bi)-Total (mg/kg wwt)		<0.030	<0.030	<0.030	<0.030	<0.030
	Cadmium (Cd)-Total (mg/kg)		0.110	0.561	0.064	1.63	0.075
	Cadmium (Cd)-Total (mg/kg wwt)		0.0636	0.521	0.0335	0.759	0.0178
	Calcium (Ca)-Total (mg/kg)		5740	7920	10900	12900	11100
	Calcium (Ca)-Total (mg/kg wwt)		3330	7360	5700	5990	2630
	Chromium (Cr)-Total (mg/kg)		<0.50	<0.50	<0.50	<0.50	<0.50
	Chromium (Cr)-Total (mg/kg wwt)		0.20	0.31	0.12	0.12	<0.10
	Cobalt (Co)-Total (mg/kg)		<0.10	0.10	<0.10	0.21	<0.10
	Cobalt (Co)-Total (mg/kg wwt)		0.025	0.093	<0.020	0.100	<0.020
	Copper (Cu)-Total (mg/kg)		2.44	2.42	3.12	5.62	3.39
	Copper (Cu)-Total (mg/kg wwt)		1.41	2.25	1.64	2.62	0.808
	Lead (Pb)-Total (mg/kg)		1.18	2.51	0.20	0.12	0.16
	Lead (Pb)-Total (mg/kg wwt)		0.684	2.33	0.103	0.056	0.038
	Lithium (Li)-Total (mg/kg)		<0.50	<0.50	<0.50	<0.50	<0.50
	Lithium (Li)-Total (mg/kg wwt)		<0.10	<0.10	<0.10	<0.10	<0.10
	Magnesium (Mg)-Total (mg/kg)		950	701	1630	2080	3820
	Magnesium (Mg)-Total (mg/kg wwt)		551	651	855	971	909
	Manganese (Mn)-Total (mg/kg)		370	40.2	276	186	180
	Manganese (Mn)-Total (mg/kg wwt)		214	37.3	145	86.6	42.9
	Mercury (Hg)-Total (mg/kg)		0.0364	0.118	0.0399	0.0119	0.0074
	Mercury (Hg)-Total (mg/kg wwt)		0.0211	0.109	0.0209	0.0055	0.0018
	Molybdenum (Mo)-Total (mg/kg)		<0.050	0.103	3.50	0.253	5.03
	Molybdenum (Mo)-Total (mg/kg wwt)		0.017	0.096	1.84	0.118	1.20
	Nickel (Ni)-Total (mg/kg)		<0.50	0.93	<0.50	0.67	<0.50
	Nickel (Ni)-Total (mg/kg wwt)		0.13	0.86	<0.10	0.31	<0.10
	Selenium (Se)-Total (mg/kg)		<1.0	<1.0	<1.0	<1.0	<1.0
	Selenium (Se)-Total (mg/kg wwt)		<0.20	0.29	<0.20	<0.20	<0.20

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		Sample ID	L552454-16	L552454-17	L552454-18	L552454-19	L552454-20
		Description					
		Sampled Date	06-SEP-07	06-SEP-07	06-SEP-07	06-SEP-07	07-SEP-07
		Sampled Time	16:50	17:03	17:30	17:30	10:30
		Client ID	MN11S14	MN11S15	MN12S16	MN12S17	MN13S18
Grouping	Analyte		MENYANTHES TRIFOLIATA	EQUISETUM FLUVIATILE	BETULA GLANDULOSA	OXYCOCCUS MICROCARPA	LEDUM GROENLANDICUM
TISSUE							
Physical Tests	% Moisture (%)		79.6	71.5	43.3	52.0	62.1
Total Metals	Aluminum (Al)-Total (mg/kg)		25	<10	22	30	46
	Aluminum (Al)-Total (mg/kg wwt)		5.0	2.8	12.4	14.2	17.3
	Antimony (Sb)-Total (mg/kg)		<0.050	<0.050	<0.050	<0.050	<0.050
	Antimony (Sb)-Total (mg/kg wwt)		<0.010	<0.010	<0.010	<0.010	<0.010
	Arsenic (As)-Total (mg/kg)		0.198	0.207	0.064	0.063	0.073
	Arsenic (As)-Total (mg/kg wwt)		0.040	0.059	0.036	0.030	0.028
	Barium (Ba)-Total (mg/kg)		7.57	7.81	22.3	112	113
	Barium (Ba)-Total (mg/kg wwt)		1.54	2.22	12.6	53.6	42.9
	Beryllium (Be)-Total (mg/kg)		<0.30	<0.30	<0.30	<0.30	<0.30
	Beryllium (Be)-Total (mg/kg wwt)		<0.10	<0.10	<0.10	<0.10	<0.10
	Bismuth (Bi)-Total (mg/kg)		<0.30	<0.30	<0.30	<0.30	<0.30
	Bismuth (Bi)-Total (mg/kg wwt)		<0.030	<0.030	<0.030	<0.030	<0.030
	Cadmium (Cd)-Total (mg/kg)		0.070	<0.030	0.079	0.338	0.033
	Cadmium (Cd)-Total (mg/kg wwt)		0.0142	<0.0050	0.0446	0.162	0.0124
	Calcium (Ca)-Total (mg/kg)		20600	20300	6590	9830	6310
	Calcium (Ca)-Total (mg/kg wwt)		4190	5760	3740	4720	2390
	Chromium (Cr)-Total (mg/kg)		<0.50	<0.50	<0.50	<0.50	<0.50
	Chromium (Cr)-Total (mg/kg wwt)		<0.10	0.13	0.12	0.13	0.19
	Cobalt (Co)-Total (mg/kg)		<0.10	0.12	<0.10	<0.10	<0.10
	Cobalt (Co)-Total (mg/kg wwt)		<0.020	0.035	0.021	<0.020	<0.020
	Copper (Cu)-Total (mg/kg)		1.25	0.512	0.932	3.32	3.45
	Copper (Cu)-Total (mg/kg wwt)		0.254	0.146	0.529	1.59	1.31
	Lead (Pb)-Total (mg/kg)		0.10	<0.10	0.22	0.21	0.23
	Lead (Pb)-Total (mg/kg wwt)		0.021	0.027	0.123	0.102	0.088
	Lithium (Li)-Total (mg/kg)		2.11	<0.50	<0.50	<0.50	<0.50
	Lithium (Li)-Total (mg/kg wwt)		0.43	<0.10	0.11	<0.10	<0.10
	Magnesium (Mg)-Total (mg/kg)		7840	5200	2120	2470	1620
	Magnesium (Mg)-Total (mg/kg wwt)		1600	1480	1200	1180	615
	Manganese (Mn)-Total (mg/kg)		914	818	138	775	572
	Manganese (Mn)-Total (mg/kg wwt)		186	233	78.1	372	217
	Mercury (Hg)-Total (mg/kg)		0.0197	0.0115	0.0058	0.0057	0.0119
	Mercury (Hg)-Total (mg/kg wwt)		0.0040	0.0033	0.0033	0.0027	0.0045
	Molybdenum (Mo)-Total (mg/kg)		0.207	0.672	0.193	0.386	0.103
	Molybdenum (Mo)-Total (mg/kg wwt)		0.042	0.191	0.110	0.185	0.039
	Nickel (Ni)-Total (mg/kg)		<0.50	<0.50	<0.50	<0.50	<0.50
	Nickel (Ni)-Total (mg/kg wwt)		<0.10	<0.10	<0.10	<0.10	<0.10
	Selenium (Se)-Total (mg/kg)		<1.0	<1.0	<1.0	<1.0	<1.0
	Selenium (Se)-Total (mg/kg wwt)		<0.20	<0.20	<0.20	<0.20	<0.20

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		Sample ID	L552454-21	L552454-22	L552454-23	L552454-24	L552454-25
		Description					
		Sampled Date	07-SEP-07	07-SEP-07	07-SEP-07	07-SEP-07	07-SEP-07
		Sampled Time	10:30	11:10	11:10	11:10	12:26
		Client ID	MN13S19 BETULA GLANDULOSA	MN14S20 CLADINA MITIS	MN14S21 LEDUM GROENLANDIC UM	MN14S21D LEDUM GROENLANDIC UM	MN15S22 LARIX LARICINA
Grouping	Analyte						
TISSUE							
Physical Tests	% Moisture (%)		54.0	62.6	58.8	61.2	56.0
Total Metals	Aluminum (Al)-Total (mg/kg)		34	114	36	39	74
	Aluminum (Al)-Total (mg/kg wwt)		15.4	42.8	14.9	15.2	32.7
	Antimony (Sb)-Total (mg/kg)		<0.050	<0.050	<0.050	<0.050	<0.050
	Antimony (Sb)-Total (mg/kg wwt)		<0.010	<0.010	<0.010	<0.010	<0.010
	Arsenic (As)-Total (mg/kg)		0.088	0.201	0.071	0.069	0.071
	Arsenic (As)-Total (mg/kg wwt)		0.041	0.075	0.029	0.027	0.031
	Barium (Ba)-Total (mg/kg)		58.5	5.74	84.2	92.0	38.4
	Barium (Ba)-Total (mg/kg wwt)		26.9	2.15	34.7	35.7	16.9
	Beryllium (Be)-Total (mg/kg)		<0.30	<0.30	<0.30	<0.30	<0.30
	Beryllium (Be)-Total (mg/kg wwt)		<0.10	<0.10	<0.10	<0.10	<0.10
	Bismuth (Bi)-Total (mg/kg)		<0.30	<0.30	<0.30	<0.30	<0.30
	Bismuth (Bi)-Total (mg/kg wwt)		<0.030	<0.030	<0.030	<0.030	<0.030
	Cadmium (Cd)-Total (mg/kg)		0.132	0.137	<0.030	<0.030	0.046
	Cadmium (Cd)-Total (mg/kg wwt)		0.0609	0.0513	0.0110	0.0086	0.0204
	Calcium (Ca)-Total (mg/kg)		7010	1350	7470	7430	5140
	Calcium (Ca)-Total (mg/kg wwt)		3220	506	3080	2880	2260
	Chromium (Cr)-Total (mg/kg)		<0.50	<0.50	<0.50	<0.50	<0.50
	Chromium (Cr)-Total (mg/kg wwt)		0.12	0.14	0.13	0.16	0.13
	Cobalt (Co)-Total (mg/kg)		0.16	<0.10	<0.10	<0.10	<0.10
	Cobalt (Co)-Total (mg/kg wwt)		0.075	<0.020	<0.020	<0.020	<0.020
	Copper (Cu)-Total (mg/kg)		1.77	2.37	4.21	4.24	2.18
	Copper (Cu)-Total (mg/kg wwt)		0.813	0.887	1.74	1.64	0.959
	Lead (Pb)-Total (mg/kg)		0.27	0.72	0.21	0.18	0.63
	Lead (Pb)-Total (mg/kg wwt)		0.125	0.269	0.085	0.070	0.276
	Lithium (Li)-Total (mg/kg)		<0.50	<0.50	<0.50	<0.50	<0.50
	Lithium (Li)-Total (mg/kg wwt)		<0.10	<0.10	<0.10	<0.10	<0.10
	Magnesium (Mg)-Total (mg/kg)		2060	506	1650	1720	947
	Magnesium (Mg)-Total (mg/kg wwt)		945	189	681	665	417
	Manganese (Mn)-Total (mg/kg)		321	38.1	226	290	170
	Manganese (Mn)-Total (mg/kg wwt)		148	14.2	93.3	112	74.7
	Mercury (Hg)-Total (mg/kg)		0.0081	0.0212	0.0085	0.0102	0.0363
	Mercury (Hg)-Total (mg/kg wwt)		0.0037	0.0079	0.0035	0.0039	0.0160
	Molybdenum (Mo)-Total (mg/kg)		0.090	0.056	0.114	0.193	<0.050
	Molybdenum (Mo)-Total (mg/kg wwt)		0.042	0.021	0.047	0.075	0.011
	Nickel (Ni)-Total (mg/kg)		<0.50	<0.50	<0.50	<0.50	<0.50
	Nickel (Ni)-Total (mg/kg wwt)		0.10	0.15	<0.10	<0.10	0.15
	Selenium (Se)-Total (mg/kg)		<1.0	<1.0	<1.0	<1.0	<1.0
	Selenium (Se)-Total (mg/kg wwt)		<0.20	<0.20	<0.20	<0.20	<0.20

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	Sample ID Description Sampled Date Sampled Time Client ID	L552454-26	L552454-27	L552454-28	L552454-29	L552454-30
Grouping	Analyte	MN15S23 SARRACENIA PURPUREA	MN16S24 BETULA GRANDULOSA	MN16S25 SALIX PLANIFOLIA	MN17S26 ANDROMEDA POLIFOLIA	MN18S27 CHAMAEDAPH NE CALYCVLATA
TISSUE						
Physical Tests	% Moisture (%)	82.0	53.6	58.7	54.5	45.4
Total Metals	Aluminum (Al)-Total (mg/kg)	30	33	25	21	187
	Aluminum (Al)-Total (mg/kg wwt)	5.4	15.1	10.1	9.5	102
	Antimony (Sb)-Total (mg/kg)	<0.050	<0.050	<0.050	<0.050	<0.15
	Antimony (Sb)-Total (mg/kg wwt)	<0.010	<0.010	<0.010	<0.010	<0.030
	Arsenic (As)-Total (mg/kg)	0.070	0.077	0.064	0.052	<0.15
	Arsenic (As)-Total (mg/kg wwt)	0.013	0.036	0.027	0.024	<0.030
	Barium (Ba)-Total (mg/kg)	9.73	30.3	6.25	57.3	81.7
	Barium (Ba)-Total (mg/kg wwt)	1.75	14.1	2.58	26.1	44.6
	Beryllium (Be)-Total (mg/kg)	<0.30	<0.30	<0.30	<0.30	<0.90
	Beryllium (Be)-Total (mg/kg wwt)	<0.10	<0.10	<0.10	<0.10	<0.30
	Bismuth (Bi)-Total (mg/kg)	<0.30	<0.30	<0.30	<0.30	<0.90
	Bismuth (Bi)-Total (mg/kg wwt)	<0.030	<0.030	<0.030	<0.030	<0.090
	Cadmium (Cd)-Total (mg/kg)	0.082	0.095	0.496	<0.030	<0.090
	Cadmium (Cd)-Total (mg/kg wwt)	0.0148	0.0442	0.205	0.0127	0.043
	Calcium (Ca)-Total (mg/kg)	1510	7470	13600	8090	4910
	Calcium (Ca)-Total (mg/kg wwt)	272	3470	5620	3680	2680
	Chromium (Cr)-Total (mg/kg)	<0.50	<0.50	<0.50	0.50	<1.5
	Chromium (Cr)-Total (mg/kg wwt)	<0.10	0.14	0.15	0.23	<0.30
	Cobalt (Co)-Total (mg/kg)	<0.10	0.12	0.32	<0.10	<0.30
	Cobalt (Co)-Total (mg/kg wwt)	<0.020	0.056	0.133	<0.020	<0.060
	Copper (Cu)-Total (mg/kg)	2.25	1.74	0.572	2.33	3.66
	Copper (Cu)-Total (mg/kg wwt)	0.405	0.807	0.236	1.06	2.00
	Lead (Pb)-Total (mg/kg)	0.17	0.22	0.10	0.14	<0.30
	Lead (Pb)-Total (mg/kg wwt)	0.030	0.102	0.043	0.062	0.123
	Lithium (Li)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<1.5
	Lithium (Li)-Total (mg/kg wwt)	<0.10	<0.10	<0.10	<0.10	<0.30
	Magnesium (Mg)-Total (mg/kg)	3640	2190	3890	1760	1030
	Magnesium (Mg)-Total (mg/kg wwt)	655	1020	1610	803	562
	Manganese (Mn)-Total (mg/kg)	145	151	403	235	1710
	Manganese (Mn)-Total (mg/kg wwt)	26.1	70.2	166	107	932
	Mercury (Hg)-Total (mg/kg)	0.0084	0.0157	0.0336	0.0441	0.0081
	Mercury (Hg)-Total (mg/kg wwt)	0.0015	0.0073	0.0139	0.0201	0.0044
	Molybdenum (Mo)-Total (mg/kg)	<0.050	<0.050	0.139	0.071	<0.15
	Molybdenum (Mo)-Total (mg/kg wwt)	<0.010	0.018	0.057	0.032	<0.030
	Nickel (Ni)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<1.5
	Nickel (Ni)-Total (mg/kg wwt)	<0.10	<0.10	<0.10	<0.10	<0.30
	Selenium (Se)-Total (mg/kg)	<1.0	<1.0	<1.0	<1.0	<3.0
	Selenium (Se)-Total (mg/kg wwt)	<0.20	<0.20	<0.20	<0.20	<0.60

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	Sample ID Description Sampled Date Sampled Time Client ID				
	L552454-31	L552454-32	L552454-33	L552454-34	L552454-35
	07-SEP-07 16:42 MN18S27D CHAMAEDAPH NE	07-SEP-07 16:42 MN18S28 CLADINA MITIS	07-SEP-07 17:50 MN19S29 SALIX MYRTILLIFOLIA VAR. GORDATA	07-SEP-07 17:50 MN19S30 COREX AQUATILIS	07-SEP-07 18:35 MN20S31 SALIX MYRTILLIFOLIA VAR. GORDATA
Grouping	Analyte				
TISSUE	CALYCVLATA				
Physical Tests	% Moisture (%)	46.3	67.0	53.6	65.3
Total Metals	Aluminum (Al)-Total (mg/kg)	172	172	17	21
	Aluminum (Al)-Total (mg/kg wwt)	92.4	56.6	7.8	7.2
	Antimony (Sb)-Total (mg/kg)	<0.15	<0.050	<0.050	<0.050
	Antimony (Sb)-Total (mg/kg wwt)	<0.030	<0.010	<0.010	<0.010
	Arsenic (As)-Total (mg/kg)	<0.15	0.167	0.054	0.095
	Arsenic (As)-Total (mg/kg wwt)	<0.030	0.055	0.025	0.033
	Barium (Ba)-Total (mg/kg)	83.9	9.39	4.73	42.8
	Barium (Ba)-Total (mg/kg wwt)	45.0	3.10	2.20	14.9
	Beryllium (Be)-Total (mg/kg)	<0.90	<0.30	<0.30	<0.30
	Beryllium (Be)-Total (mg/kg wwt)	<0.30	<0.10	<0.10	<0.10
	Bismuth (Bi)-Total (mg/kg)	<0.90	<0.30	<0.30	<0.30
	Bismuth (Bi)-Total (mg/kg wwt)	<0.090	<0.030	<0.030	<0.030
	Cadmium (Cd)-Total (mg/kg)	<0.090	0.116	0.233	<0.030
	Cadmium (Cd)-Total (mg/kg wwt)	0.034	0.0381	0.108	0.0082
	Calcium (Ca)-Total (mg/kg)	5780	1040	9160	5470
	Calcium (Ca)-Total (mg/kg wwt)	3100	344	4250	1900
	Chromium (Cr)-Total (mg/kg)	<1.5	<0.50	<0.50	1.54
	Chromium (Cr)-Total (mg/kg wwt)	<0.30	0.15	0.12	0.54
	Cobalt (Co)-Total (mg/kg)	<0.30	<0.10	0.32	0.11
	Cobalt (Co)-Total (mg/kg wwt)	<0.060	<0.020	0.149	0.039
	Copper (Cu)-Total (mg/kg)	4.54	1.54	1.28	2.51
	Copper (Cu)-Total (mg/kg wwt)	2.44	0.506	0.595	0.870
	Lead (Pb)-Total (mg/kg)	<0.30	0.78	<0.10	0.14
	Lead (Pb)-Total (mg/kg wwt)	0.118	0.258	0.037	0.048
	Lithium (Li)-Total (mg/kg)	<1.5	<0.50	<0.50	<0.50
	Lithium (Li)-Total (mg/kg wwt)	<0.30	<0.10	<0.10	<0.10
	Magnesium (Mg)-Total (mg/kg)	824	322	3040	1820
	Magnesium (Mg)-Total (mg/kg wwt)	443	106	1410	633
	Manganese (Mn)-Total (mg/kg)	2030	102	1120	794
	Manganese (Mn)-Total (mg/kg wwt)	1090	33.5	518	276
	Mercury (Hg)-Total (mg/kg)	0.0489	0.0144	0.0255	0.0541
	Mercury (Hg)-Total (mg/kg wwt)	0.0262	0.0047	0.0118	0.0188
	Molybdenum (Mo)-Total (mg/kg)	<0.15	<0.050	0.186	1.20
	Molybdenum (Mo)-Total (mg/kg wwt)	<0.030	0.010	0.086	0.416
	Nickel (Ni)-Total (mg/kg)	<1.5	0.63	<0.50	0.96
	Nickel (Ni)-Total (mg/kg wwt)	0.37	0.21	<0.10	0.33
	Selenium (Se)-Total (mg/kg)	<3.0	<1.0	<1.0	<1.0
	Selenium (Se)-Total (mg/kg wwt)	<0.60	<0.20	<0.20	<0.20

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		Sample ID	L552454-36	L552454-37	L552454-38	L552454-39	L552454-40
		Description					
		Sampled Date	08-SEP-07	08-SEP-07	08-SEP-07	08-SEP-07	08-SEP-07
		Sampled Time	10:45	10:45	10:45	13:15	13:15
		Client ID	MN21S32	MN21S33	MN21S33D	MN23S34	MN23S35
Grouping	Analyte		COMARUM PALUSTRIS	PICEA MARIANA	PICEA MARIANA	BETULA GRANDULOSA	EQUISETUM FLUVIATILE
TISSUE							
Physical Tests	% Moisture (%)		66.7	46.3	48.2	45.8	74.3
Total Metals	Aluminum (Al)-Total (mg/kg)		37	28	32	18	<10
	Aluminum (Al)-Total (mg/kg wwt)		12.5	15.0	16.5	9.8	<2.0
	Antimony (Sb)-Total (mg/kg)		<0.050	<0.050	<0.050	<0.050	<0.050
	Antimony (Sb)-Total (mg/kg wwt)		<0.010	<0.010	<0.010	<0.010	<0.010
	Arsenic (As)-Total (mg/kg)		0.091	<0.050	0.056	<0.050	0.098
	Arsenic (As)-Total (mg/kg wwt)		0.030	0.026	0.029	0.017	0.025
	Barium (Ba)-Total (mg/kg)		45.3	17.7	26.0	29.7	11.9
	Barium (Ba)-Total (mg/kg wwt)		15.1	9.50	13.5	16.1	3.06
	Beryllium (Be)-Total (mg/kg)		<0.30	<0.30	<0.30	<0.30	<0.30
	Beryllium (Be)-Total (mg/kg wwt)		<0.10	<0.10	<0.10	<0.10	<0.10
	Bismuth (Bi)-Total (mg/kg)		<0.30	<0.30	<0.30	<0.30	<0.30
	Bismuth (Bi)-Total (mg/kg wwt)		<0.030	<0.030	<0.030	<0.030	<0.030
	Cadmium (Cd)-Total (mg/kg)		0.044	<0.030	0.052	0.050	<0.030
	Cadmium (Cd)-Total (mg/kg wwt)		0.0147	0.0117	0.0267	0.0272	<0.0050
	Calcium (Ca)-Total (mg/kg)		13000	7780	7660	5830	22500
	Calcium (Ca)-Total (mg/kg wwt)		4330	4180	3970	3160	5790
	Chromium (Cr)-Total (mg/kg)		<0.50	<0.50	<0.50	<0.50	0.63
	Chromium (Cr)-Total (mg/kg wwt)		0.12	0.13	0.13	0.13	0.16
	Cobalt (Co)-Total (mg/kg)		<0.10	<0.10	<0.10	0.11	0.19
	Cobalt (Co)-Total (mg/kg wwt)		0.032	<0.020	<0.020	0.057	0.048
	Copper (Cu)-Total (mg/kg)		1.45	1.34	1.67	1.60	1.66
	Copper (Cu)-Total (mg/kg wwt)		0.483	0.717	0.863	0.870	0.428
	Lead (Pb)-Total (mg/kg)		0.15	0.17	0.30	0.20	<0.10
	Lead (Pb)-Total (mg/kg wwt)		0.049	0.090	0.153	0.106	<0.020
	Lithium (Li)-Total (mg/kg)		<0.50	<0.50	<0.50	<0.50	<0.50
	Lithium (Li)-Total (mg/kg wwt)		0.13	0.13	0.16	<0.10	<0.10
	Magnesium (Mg)-Total (mg/kg)		5960	1020	1400	1770	5420
	Magnesium (Mg)-Total (mg/kg wwt)		1990	550	724	959	1390
	Manganese (Mn)-Total (mg/kg)		700	383	214	147	1830
	Manganese (Mn)-Total (mg/kg wwt)		233	206	111	80.0	472
	Mercury (Hg)-Total (mg/kg)		0.0146	0.0139	0.0140	0.0448	0.0581
	Mercury (Hg)-Total (mg/kg wwt)		0.0049	0.0075	0.0072	0.0243	0.0149
	Molybdenum (Mo)-Total (mg/kg)		0.347	<0.050	<0.050	0.148	0.720
	Molybdenum (Mo)-Total (mg/kg wwt)		0.116	0.013	0.013	0.080	0.185
	Nickel (Ni)-Total (mg/kg)		<0.50	<0.50	<0.50	<0.50	<0.50
	Nickel (Ni)-Total (mg/kg wwt)		<0.10	<0.10	<0.10	<0.10	<0.10
	Selenium (Se)-Total (mg/kg)		<1.0	<1.0	<1.0	<1.0	<1.0
	Selenium (Se)-Total (mg/kg wwt)		<0.20	<0.20	<0.20	<0.20	<0.20

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		Sample ID	L552454-41	L552454-42	L552454-43	L552454-44	L552454-45
		Description					
		Sampled Date	08-SEP-07	08-SEP-07	08-SEP-07	08-SEP-07	08-SEP-07
		Sampled Time	15:00	15:00	15:37	15:37	16:50
		Client ID	MN24S36	MN24S37 LARIX	MN25S38	MN25S39	MN25S40
Grouping	Analyte		ARCTOSTAPHYLOS RUBRA	LARICINA	MENYANTHES TRIFOLIATA	UTRICULARIA INTERMEDIA	OXYCOCCUS MICROCARPA
TISSUE							
Physical Tests	% Moisture (%)		60.1	48.3	73.0	76.8	50.5
Total Metals	Aluminum (Al)-Total (mg/kg)		32	69	14	<70	19
	Aluminum (Al)-Total (mg/kg wwt)		12.7	35.6	3.7	16	9.3
	Antimony (Sb)-Total (mg/kg)		<0.050	<0.050	<0.050	<0.35	<0.050
	Antimony (Sb)-Total (mg/kg wwt)		<0.010	<0.010	<0.010	<0.070	<0.010
	Arsenic (As)-Total (mg/kg)		0.061	0.107	0.080	3.07	<0.050
	Arsenic (As)-Total (mg/kg wwt)		0.025	0.055	0.021	0.713	0.014
	Barium (Ba)-Total (mg/kg)		53.3	48.8	6.65	276	117
	Barium (Ba)-Total (mg/kg wwt)		21.3	25.2	1.79	64.2	58.1
	Beryllium (Be)-Total (mg/kg)		<0.30	<0.30	<0.30	<2.1	<0.30
	Beryllium (Be)-Total (mg/kg wwt)		<0.10	<0.10	<0.10	<0.70	<0.10
	Bismuth (Bi)-Total (mg/kg)		<0.30	<0.30	<0.30	<2.1	<0.30
	Bismuth (Bi)-Total (mg/kg wwt)		<0.030	<0.030	<0.030	<0.21	<0.030
	Cadmium (Cd)-Total (mg/kg)		0.046	0.143	0.044	<0.21	0.326
	Cadmium (Cd)-Total (mg/kg wwt)		0.0184	0.0740	0.0119	0.036	0.162
	Calcium (Ca)-Total (mg/kg)		9840	4950	10300	4050	7090
	Calcium (Ca)-Total (mg/kg wwt)		3930	2550	2780	942	3510
	Chromium (Cr)-Total (mg/kg)		<0.50	<0.50	<0.50	<3.5	<0.50
	Chromium (Cr)-Total (mg/kg wwt)		0.15	0.12	<0.10	<0.70	0.21
	Cobalt (Co)-Total (mg/kg)		<0.10	<0.10	<0.10	5.19	<0.10
	Cobalt (Co)-Total (mg/kg wwt)		<0.020	<0.020	<0.020	1.21	<0.020
	Copper (Cu)-Total (mg/kg)		1.28	3.48	0.665	1.10	3.67
	Copper (Cu)-Total (mg/kg wwt)		0.510	1.80	0.179	0.257	1.82
	Lead (Pb)-Total (mg/kg)		0.13	1.22	<0.10	<0.70	0.16
	Lead (Pb)-Total (mg/kg wwt)		0.053	0.632	<0.020	<0.14	0.080
	Lithium (Li)-Total (mg/kg)		<0.50	<0.50	<0.50	<3.5	<0.50
	Lithium (Li)-Total (mg/kg wwt)		<0.10	<0.10	<0.10	<0.70	<0.10
	Magnesium (Mg)-Total (mg/kg)		2260	1150	3050	1120	1540
	Magnesium (Mg)-Total (mg/kg wwt)		903	593	823	259	762
	Manganese (Mn)-Total (mg/kg)		47.3	251	819	14800	1200
	Manganese (Mn)-Total (mg/kg wwt)		18.9	130	221	3450	596
	Mercury (Hg)-Total (mg/kg)		0.0086	0.0236	0.0095	0.0612	0.0384
	Mercury (Hg)-Total (mg/kg wwt)		0.0034	0.0122	0.0026	0.0142	0.0190
	Molybdenum (Mo)-Total (mg/kg)		<0.050	<0.050	0.287	<0.35	0.128
	Molybdenum (Mo)-Total (mg/kg wwt)		<0.010	0.015	0.078	0.079	0.063
	Nickel (Ni)-Total (mg/kg)		<0.50	<0.50	<0.50	<3.5	<0.50
	Nickel (Ni)-Total (mg/kg wwt)		<0.10	0.12	<0.10	0.74	0.12
	Selenium (Se)-Total (mg/kg)		<1.0	<1.0	<1.0	<7.0	<1.0
	Selenium (Se)-Total (mg/kg wwt)		<0.20	<0.20	<0.20	<1.4	<0.20

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		Sample ID	L552454-1	L552454-2	L552454-3	L552454-4	L552454-5
		Description					
		Sampled Date	05-SEP-07	05-SEP-07	05-SEP-07	05-SEP-07	06-SEP-07
		Sampled Time	13:15	15:26	16:16	16:16	10:46
		Client ID	MN1S1 SALIX PLANIFOLIA	MN2S2 CLADINA MITIS	MN3S3 LEDUM GROENLANDIC UM	MN3S3D LEDUM GROENLANDIC UM	MN4S4 BETULA GLANDULOSA
Grouping	Analyte						
TISSUE							
Total Metals	Strontium (Sr)-Total (mg/kg)		5.95	1.26	7.53	4.50	8.40
	Strontium (Sr)-Total (mg/kg wwt)		2.72	0.934	4.14	2.45	4.95
	Thallium (Tl)-Total (mg/kg)		<0.030	<0.030	<0.060	<0.030	<0.030
	Thallium (Tl)-Total (mg/kg wwt)		<0.010	<0.010	<0.020	<0.010	<0.010
	Tin (Sn)-Total (mg/kg)		<0.20	<0.20	<0.40	<0.20	<0.20
	Tin (Sn)-Total (mg/kg wwt)		<0.050	<0.050	<0.10	<0.050	<0.050
	Uranium (U)-Total (mg/kg)		<0.010	0.011	<0.020	<0.010	<0.010
	Uranium (U)-Total (mg/kg wwt)		<0.0020	0.0081	<0.0040	<0.0020	<0.0020
	Vanadium (V)-Total (mg/kg)		<0.50	<0.50	<1.0	<0.50	<0.50
	Vanadium (V)-Total (mg/kg wwt)		<0.10	0.33	<0.20	<0.10	<0.10
	Zinc (Zn)-Total (mg/kg)		128	9.85	27.2	26.9	206
	Zinc (Zn)-Total (mg/kg wwt)		58.7	7.29	14.9	14.6	122

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		Sample ID	L552454-6	L552454-7	L552454-8	L552454-9	L552454-10
		Description					
		Sampled Date	06-SEP-07	06-SEP-07	06-SEP-07	06-SEP-07	06-SEP-07
		Sampled Time	11:25	12:37	12:54	13:47	13:47
		Client ID	MN5S5	MN6S6	MN6S7	MN7S8	MN7S9
Grouping	Analyte		CHAMAEDAPHNE	EQUISETUM FLUVIATILE	BETULA GLANDULOSA	ANDROMEDA POLIFOLIA	LARIX LARICINA
TISSUE			CALYCVLATA				
Total Metals	Strontium (Sr)-Total (mg/kg)	6.47	41.0	8.60	14.0	65.3	
	Strontium (Sr)-Total (mg/kg wwt)	3.84	9.55	4.86	6.71	35.0	
	Thallium (Tl)-Total (mg/kg)	<0.060	<0.030	<0.030	<0.030	<0.030	
	Thallium (Tl)-Total (mg/kg wwt)	<0.020	<0.010	<0.010	<0.010	<0.010	
	Tin (Sn)-Total (mg/kg)	<0.40	<0.20	<0.20	<0.20	<0.20	
	Tin (Sn)-Total (mg/kg wwt)	<0.10	<0.050	<0.050	<0.050	<0.050	
	Uranium (U)-Total (mg/kg)	<0.020	<0.010	<0.010	<0.010	<0.010	
	Uranium (U)-Total (mg/kg wwt)	<0.0040	<0.0020	<0.0020	<0.0020	0.0025	
	Vanadium (V)-Total (mg/kg)	<1.0	<0.50	<0.50	<0.50	<0.50	
	Vanadium (V)-Total (mg/kg wwt)	<0.20	<0.10	<0.10	<0.10	0.11	
	Zinc (Zn)-Total (mg/kg)	21.7	16.3	226	20.2	46.2	
	Zinc (Zn)-Total (mg/kg wwt)	12.9	3.79	128	9.65	24.8	

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		Sample ID	L552454-11	L552454-12	L552454-13	L552454-14	L552454-15
		Description					
		Sampled Date	06-SEP-07	06-SEP-07	06-SEP-07	06-SEP-07	06-SEP-07
		Sampled Time	13:47	14:40	14:40	15:13	15:43
		Client ID	MN7S9D LARIX	MN8S10 EVERNIA	MN8S11 ALNUS CRISPA	MN9S12 SALIX BEBBIANA	MN10S13 BIDENS CERNUA
Grouping	Analyte			MESOMORPHA			
TISSUE							
Total Metals	Strontium (Sr)-Total (mg/kg)		74.5	10.0	24.5	33.9	21.8
	Strontium (Sr)-Total (mg/kg wwt)		43.2	9.29	12.9	15.8	5.19
	Thallium (Tl)-Total (mg/kg)		<0.030	<0.030	<0.030	<0.030	<0.030
	Thallium (Tl)-Total (mg/kg wwt)		<0.010	<0.010	<0.010	<0.010	<0.010
	Tin (Sn)-Total (mg/kg)		<0.20	<0.20	<0.20	<0.20	<0.20
	Tin (Sn)-Total (mg/kg wwt)		<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Total (mg/kg)		<0.010	0.014	<0.010	<0.010	0.031
	Uranium (U)-Total (mg/kg wwt)		0.0036	0.0126	<0.0020	<0.0020	0.0074
	Vanadium (V)-Total (mg/kg)		<0.50	<0.50	<0.50	<0.50	<0.50
	Vanadium (V)-Total (mg/kg wwt)		0.16	0.38	<0.10	<0.10	<0.10
	Zinc (Zn)-Total (mg/kg)		43.4	74.6	88.2	194	68.9
	Zinc (Zn)-Total (mg/kg wwt)		25.1	69.3	46.3	90.2	16.4

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		Sample ID	L552454-16	L552454-17	L552454-18	L552454-19	L552454-20
		Description					
		Sampled Date	06-SEP-07	06-SEP-07	06-SEP-07	06-SEP-07	07-SEP-07
		Sampled Time	16:50	17:03	17:30	17:30	10:30
		Client ID	MN11S14	MN11S15	MN12S16	MN12S17	MN13S18
Grouping	Analyte		MENYANTHES TRIFOLIATA	EQUISETUM FLUVIATILE	BETULA GLANDULOSA	OXYCOCCUS MICROCARPA	LEDUM GROENLANDICUM
TISSUE							
Total Metals	Strontium (Sr)-Total (mg/kg)		39.9	40.8	15.6	28.8	20.5
	Strontium (Sr)-Total (mg/kg wwt)		8.13	11.6	8.86	13.8	7.76
	Thallium (Tl)-Total (mg/kg)		<0.030	<0.030	<0.030	<0.030	<0.030
	Thallium (Tl)-Total (mg/kg wwt)		<0.010	<0.010	<0.010	<0.010	<0.010
	Tin (Sn)-Total (mg/kg)		<0.20	<0.20	<0.20	<0.20	<0.20
	Tin (Sn)-Total (mg/kg wwt)		<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Total (mg/kg)		<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/kg wwt)		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Vanadium (V)-Total (mg/kg)		<0.50	<0.50	<0.50	<0.50	<0.50
	Vanadium (V)-Total (mg/kg wwt)		<0.10	<0.10	<0.10	<0.10	<0.10
	Zinc (Zn)-Total (mg/kg)		119	23.3	272	45.8	30.2
	Zinc (Zn)-Total (mg/kg wwt)		24.2	6.62	154	22.0	11.4

ALS LABORATORY GROUP ANALYTICAL REPORT

L7.9-15

L552454 CONTD....

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Sample ID	Description	Sampled Date	Sampled Time	Client ID		
L552454-21		07-SEP-07	10:30	MN13S19 BETULA		
L552454-22		07-SEP-07	11:10	MN14S20 CLADINA MITIS		
L552454-23		07-SEP-07	11:10	MN14S21 LEDUM		
L552454-24		07-SEP-07	11:10	MN14S21D LEDUM		
L552454-25		07-SEP-07	12:26	MN15S22 LARIX LARICINA		
Grouping	Analyte					
TISSUE						
Total Metals	Strontium (Sr)-Total (mg/kg)	15.3	3.40	10.0	10.6	103
	Strontium (Sr)-Total (mg/kg wwt)	7.02	1.27	4.14	4.12	45.3
	Thallium (Tl)-Total (mg/kg)	<0.030	<0.030	<0.030	<0.030	<0.030
	Thallium (Tl)-Total (mg/kg wwt)	<0.010	<0.010	<0.010	<0.010	<0.010
	Tin (Sn)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20
	Tin (Sn)-Total (mg/kg wwt)	<0.050	<0.050	<0.050	<0.050	0.073
	Uranium (U)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/kg wwt)	<0.0020	0.0024	<0.0020	<0.0020	<0.0020
	Vanadium (V)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Vanadium (V)-Total (mg/kg wwt)	<0.10	0.11	<0.10	<0.10	<0.10
	Zinc (Zn)-Total (mg/kg)	290	14.6	27.2	26.8	48.9
	Zinc (Zn)-Total (mg/kg wwt)	133	5.46	11.2	10.4	21.5

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L552454-26	L552454-27	L552454-28	L552454-29	L552454-30
Grouping	Analyte	MN15S23 SARRACENIA PURPUREA	MN16S24 BETULA GRANDULOSA	MN16S25 SALIX PLANIFOLIA	MN17S26 ANDROMEDA POLIFOLIA	MN18S27 CHAMAEDAPH NE CALYCVLATA
TISSUE						
Total Metals	Strontium (Sr)-Total (mg/kg)	5.46	22.9	37.9	9.89	2.04
	Strontium (Sr)-Total (mg/kg wwt)	0.982	10.6	15.6	4.50	1.12
	Thallium (Tl)-Total (mg/kg)	<0.030	<0.030	<0.030	<0.030	<0.090
	Thallium (Tl)-Total (mg/kg wwt)	<0.010	<0.010	<0.010	<0.010	<0.030
	Tin (Sn)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.60
	Tin (Sn)-Total (mg/kg wwt)	<0.050	<0.050	<0.050	<0.050	<0.15
	Uranium (U)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.030
	Uranium (U)-Total (mg/kg wwt)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0060
	Vanadium (V)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<1.5
	Vanadium (V)-Total (mg/kg wwt)	<0.10	<0.10	<0.10	<0.10	<0.30
	Zinc (Zn)-Total (mg/kg)	21.9	234	261	35.1	26.3
	Zinc (Zn)-Total (mg/kg wwt)	3.94	109	108	16.0	14.4

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L552454-31	L552454-32	L552454-33	L552454-34	L552454-35
		07-SEP-07 16:42 MN18S27D CHAMAEDAPH NE	07-SEP-07 16:42 MN18S28 CLADINA MITIS	07-SEP-07 17:50 MN19S29 SALIX MYRTILLIFOLIA VAR. GORDATA	07-SEP-07 17:50 MN19S30 COREX AQUATILIS	07-SEP-07 18:35 MN20S31 SALIX MYRTILLIFOLIA VAR. GORDATA
Grouping	Analyte					
TISSUE		CALYCVLATA				
Total Metals	Strontium (Sr)-Total (mg/kg)	1.32	1.04	15.8	15.2	13.7
	Strontium (Sr)-Total (mg/kg wwt)	0.709	0.342	7.34	5.28	5.82
	Thallium (Tl)-Total (mg/kg)	<0.090	<0.030	<0.030	<0.030	<0.030
	Thallium (Tl)-Total (mg/kg wwt)	<0.030	<0.010	<0.010	<0.010	<0.010
	Tin (Sn)-Total (mg/kg)	<0.60	<0.20	<0.20	<0.20	<0.20
	Tin (Sn)-Total (mg/kg wwt)	<0.15	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Total (mg/kg)	<0.030	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/kg wwt)	<0.0060	0.0026	<0.0020	<0.0020	<0.0020
	Vanadium (V)-Total (mg/kg)	<1.5	<0.50	<0.50	<0.50	<0.50
	Vanadium (V)-Total (mg/kg wwt)	<0.30	0.13	<0.10	<0.10	<0.10
	Zinc (Zn)-Total (mg/kg)	19.5	8.45	113	24.7	143
	Zinc (Zn)-Total (mg/kg wwt)	10.5	2.79	52.4	8.57	60.8

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L552454-36	L552454-37	L552454-38	L552454-39	L552454-40
Grouping	Analyte	MN21S32 COMARUM PALUSTRIS	MN21S33 PICEA MARIANA	MN21S33D PICEA MARIANA	MN23S34 BETULA GRANDULOSA	MN23S35 EQUISETUM FLUVIATILE
TISSUE						
Total Metals	Strontium (Sr)-Total (mg/kg)	31.0	25.8	40.0	18.7	71.6
	Strontium (Sr)-Total (mg/kg wwt)	10.3	13.8	20.7	10.1	18.4
	Thallium (Tl)-Total (mg/kg)	<0.030	<0.030	<0.030	<0.030	<0.030
	Thallium (Tl)-Total (mg/kg wwt)	<0.010	<0.010	<0.010	<0.010	<0.010
	Tin (Sn)-Total (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20
	Tin (Sn)-Total (mg/kg wwt)	<0.050	<0.050	<0.050	<0.050	<0.050
	Uranium (U)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/kg wwt)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Vanadium (V)-Total (mg/kg)	<0.50	<0.50	<0.50	<0.50	<0.50
	Vanadium (V)-Total (mg/kg wwt)	<0.10	<0.10	<0.10	<0.10	<0.10
	Zinc (Zn)-Total (mg/kg)	110	79.8	81.6	214	54.7
	Zinc (Zn)-Total (mg/kg wwt)	36.6	42.9	42.3	116	14.1

ALS LABORATORY GROUP ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L552454-41	L552454-42	L552454-43	L552454-44	L552454-45
Grouping	Analyte					
TISSUE						
Total Metals	Strontium (Sr)-Total (mg/kg)	28.1	104	14.5	31.7	26.6
	Strontium (Sr)-Total (mg/kg wwt)	11.2	53.5	3.91	7.38	13.2
	Thallium (Tl)-Total (mg/kg)	<0.030	<0.030	<0.030	<0.21	<0.030
	Thallium (Tl)-Total (mg/kg wwt)	<0.010	<0.010	<0.010	<0.070	<0.010
	Tin (Sn)-Total (mg/kg)	<0.20	<0.20	<0.20	<1.4	<0.20
	Tin (Sn)-Total (mg/kg wwt)	<0.050	<0.050	<0.050	<0.35	<0.070
	Uranium (U)-Total (mg/kg)	<0.010	<0.010	<0.010	<0.070	<0.010
	Uranium (U)-Total (mg/kg wwt)	<0.0020	0.0024	<0.0020	<0.014	<0.0020
	Vanadium (V)-Total (mg/kg)	<0.50	<0.50	<0.50	<3.5	<0.50
	Vanadium (V)-Total (mg/kg wwt)	<0.10	<0.10	<0.10	<0.70	<0.10
	Zinc (Zn)-Total (mg/kg)	110	51.2	36.8	107	40.3
	Zinc (Zn)-Total (mg/kg wwt)	44.0	26.4	9.94	24.9	20.0

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
HG-DRY-CVAFS-VA	Tissue	Mercury in Tissue by CVAFS	PUGET SOUND PROTOCOLS
<p>This analysis is carried out using procedures adapted from "Recommended Guidelines for Measuring Metals in Puget Sound Marine Water, Sediment, and Tissue Samples" prepared for the United States Environmental Protection Agency and the Puget Sound Water Quality Authority, 1995. Tissue samples are homogenized either mechanically or manually prior to digestion. The hotplate or block digestion involves the use of nitric acid followed by repeated additions of hydrogen peroxide. Instrumental analysis is by atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
HG-WET-CVAFS-VA	Tissue	Mercury in Tissue by CVAFS	PUGET SOUND PROTOCOLS
<p>This analysis is carried out using procedures adapted from "Recommended Guidelines for Measuring Metals in Puget Sound Marine Water, Sediment, and Tissue Samples" prepared for the United States Environmental Protection Agency and the Puget Sound Water Quality Authority, 1995. Tissue samples are homogenized either mechanically or manually prior to digestion. The hotplate or block digestion involves the use of nitric acid followed by repeated additions of hydrogen peroxide. Instrumental analysis is by atomic fluorescence spectrophotometry (EPA Method 245.7).</p>			
MET-DRY-MS-VA	Tissue	Metals in Tissue by ICPMS	PUGET SOUND PROTOCOLS, EPA 6020A
<p>This analysis is carried out using procedures adapted from "Recommended Guidelines for Measuring Metals in Puget Sound Marine Water, Sediment, and Tissue Samples" prepared for the United States Environmental Protection Agency and the Puget Sound Water Quality Authority, 1995. Tissue samples are homogenized either mechanically or manually prior to digestion. The hotplate or block digestion involves the use of nitric acid followed by repeated additions of hydrogen peroxide. Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MET-WET-MS-VA	Tissue	Metals in Tissue by ICPMS	PUGET SOUND PROTOCOLS, EPA 6020A
<p>This analysis is carried out using procedures adapted from "Recommended Guidelines for Measuring Metals in Puget Sound Marine Water, Sediment, and Tissue Samples" prepared for the United States Environmental Protection Agency and the Puget Sound Water Quality Authority, 1995. Tissue samples are homogenized either mechanically or manually prior to digestion. The hotplate or block digestion involves the use of nitric acid followed by repeated additions of hydrogen peroxide. Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p>			
MOISTURE-TISS-VA	Tissue	% Moisture in Tissues	ASTM METHOD D2794-00
<p>This analysis is carried out gravimetrically by drying the sample at 105 C for a minimum of six hours.</p>			

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies. The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.

The reported surrogate recovery value provides a measure of method efficiency.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Environmental Division

ALS Laboratory Group Quality Control Report

Workorder: L552454

Report Date: 09-NOV-07

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Client: URS CANADA INC.
P.O. BOX 11507 1900 - 650 WEST GEORGIA STREET
VANCOUVER BC V6B 4N7

Contact: KEITH MOUNTJOY

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-DRY-CVAFS-VA	Tissue							
Batch R595650								
WG684294-7 CRM		VA-NIST-1515						
Mercury (Hg)-Total			72		%		68-114	01-NOV-07
WG684294-3 DUP		L552454-17						
Mercury (Hg)-Total		0.0115	0.0136	J	mg/kg	0.0021	0.02	01-NOV-07
WG684294-4 DUP		L552454-24						
Mercury (Hg)-Total		0.0102	0.0091	J	mg/kg	0.0010	0.02	01-NOV-07
WG684294-5 DUP		L552454-40						
Mercury (Hg)-Total		0.0581	0.0510		mg/kg	13	45	01-NOV-07
WG684294-1 MB								
Mercury (Hg)-Total			<0.0050		mg/kg		0.005	01-NOV-07
WG684294-2 MB								
Mercury (Hg)-Total			<0.0050		mg/kg		0.005	01-NOV-07
Batch R595984								
WG684294-8 CRM		VA-NIST-1547						
Mercury (Hg)-Total			89		%		80-120	02-NOV-07
WG684294-9 CRM		VA-NIST-1515						
Mercury (Hg)-Total			81		%		68-114	02-NOV-07
MET-DRY-MS-VA	Tissue							
Batch R596585								
WG684294-6 CRM		VA-NIST-1547						
Aluminum (Al)-Total			96		%		69-112	02-NOV-07
Barium (Ba)-Total			97		%		83-119	02-NOV-07
Calcium (Ca)-Total			101		%		87-114	02-NOV-07
Copper (Cu)-Total			99		%		86-115	02-NOV-07
Lead (Pb)-Total			98		%		79-120	02-NOV-07
Magnesium (Mg)-Total			103		%		65-135	02-NOV-07
Manganese (Mn)-Total			96		%		86-117	02-NOV-07
Strontium (Sr)-Total			106		%		93-125	02-NOV-07
Zinc (Zn)-Total			104		%		84-120	02-NOV-07
WG684294-7 CRM		VA-NIST-1515						
Aluminum (Al)-Total			104		%		66-109	02-NOV-07
Barium (Ba)-Total			102		%		90-113	02-NOV-07
Calcium (Ca)-Total			107		%		87-116	02-NOV-07
Copper (Cu)-Total			109		%		83-114	02-NOV-07
Lead (Pb)-Total			102		%		70-117	02-NOV-07
Magnesium (Mg)-Total			111		%		85-115	02-NOV-07

ALS Laboratory Group Quality Control Report

Workorder: L552454

Report Date: 09-NOV-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-MS-VA	Tissue							
Batch	R596585							
WG684294-7 CRM		VA-NIST-1515						
Manganese (Mn)-Total			102		%		89-116	02-NOV-07
Strontium (Sr)-Total			107		%		89-119	02-NOV-07
Zinc (Zn)-Total			108		%		84-115	02-NOV-07
WG684294-8 CRM		VA-NIST-1547						
Aluminum (Al)-Total			86		%		69-112	02-NOV-07
Barium (Ba)-Total			94		%		83-119	02-NOV-07
Calcium (Ca)-Total			97		%		87-114	02-NOV-07
Copper (Cu)-Total			97		%		86-115	02-NOV-07
Lead (Pb)-Total			99		%		79-120	02-NOV-07
Magnesium (Mg)-Total			103		%		65-135	02-NOV-07
Manganese (Mn)-Total			92		%		86-117	02-NOV-07
Strontium (Sr)-Total			102		%		93-125	02-NOV-07
Zinc (Zn)-Total			101		%		84-120	02-NOV-07
WG684294-9 CRM		VA-NIST-1515						
Aluminum (Al)-Total			89		%		66-109	02-NOV-07
Barium (Ba)-Total			96		%		90-113	02-NOV-07
Calcium (Ca)-Total			100		%		87-116	02-NOV-07
Copper (Cu)-Total			101		%		83-114	02-NOV-07
Lead (Pb)-Total			94		%		70-117	02-NOV-07
Magnesium (Mg)-Total			108		%		85-115	02-NOV-07
Manganese (Mn)-Total			96		%		89-116	02-NOV-07
Strontium (Sr)-Total			96		%		89-119	02-NOV-07
Zinc (Zn)-Total			103		%		84-115	02-NOV-07
WG684294-3 DUP		L552454-17						
Aluminum (Al)-Total		<10	<10	RPD-NA	mg/kg	N/A	45	02-NOV-07
Antimony (Sb)-Total		<0.050	<0.050	RPD-NA	mg/kg	N/A	45	02-NOV-07
Arsenic (As)-Total		0.207	0.177	J	mg/kg	0.031	0.2	02-NOV-07
Barium (Ba)-Total		7.81	7.44		mg/kg	4.9	45	02-NOV-07
Beryllium (Be)-Total		<0.30	<0.30	RPD-NA	mg/kg	N/A	45	02-NOV-07
Bismuth (Bi)-Total		<0.30	<0.30	RPD-NA	mg/kg	N/A	45	02-NOV-07
Cadmium (Cd)-Total		<0.030	<0.030	RPD-NA	mg/kg	N/A	45	02-NOV-07
Calcium (Ca)-Total		20300	19500		mg/kg	3.8	45	02-NOV-07
Chromium (Cr)-Total		<0.50	<0.50	RPD-NA	mg/kg	N/A	45	02-NOV-07

ALS Laboratory Group Quality Control Report

Workorder: L552454

Report Date: 09-NOV-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-MS-VA	Tissue							
Batch	R596585							
WG684294-3	DUP	L552454-17						
Cobalt (Co)-Total		0.12	0.14	J	mg/kg	0.01	0.4	02-NOV-07
Copper (Cu)-Total		0.512	0.344	J	mg/kg	0.168	0.2	02-NOV-07
Lead (Pb)-Total		<0.10	<0.10	RPD-NA	mg/kg	N/A	45	02-NOV-07
Lithium (Li)-Total		<0.50	<0.50	RPD-NA	mg/kg	N/A	45	02-NOV-07
Magnesium (Mg)-Total		5200	4900		mg/kg	5.9	45	02-NOV-07
Manganese (Mn)-Total		818	786		mg/kg	4.0	45	02-NOV-07
Molybdenum (Mo)-Total		0.672	0.718		mg/kg	6.6	45	02-NOV-07
Nickel (Ni)-Total		<0.50	<0.50	RPD-NA	mg/kg	N/A	45	02-NOV-07
Selenium (Se)-Total		<1.0	<1.0	RPD-NA	mg/kg	N/A	45	02-NOV-07
Strontium (Sr)-Total		40.8	38.7		mg/kg	5.2	45	02-NOV-07
Thallium (Tl)-Total		<0.030	<0.030	RPD-NA	mg/kg	N/A	45	02-NOV-07
Tin (Sn)-Total		<0.20	<0.20	RPD-NA	mg/kg	N/A	45	02-NOV-07
Uranium (U)-Total		<0.010	<0.010	RPD-NA	mg/kg	N/A	45	02-NOV-07
Vanadium (V)-Total		<0.50	<0.50	RPD-NA	mg/kg	N/A	45	02-NOV-07
Zinc (Zn)-Total		23.3	23.7		mg/kg	1.7	45	02-NOV-07
WG684294-4	DUP	L552454-24						
Aluminum (Al)-Total		39	43	J	mg/kg	4	40	02-NOV-07
Antimony (Sb)-Total		<0.050	<0.050	RPD-NA	mg/kg	N/A	45	02-NOV-07
Arsenic (As)-Total		0.069	0.065	J	mg/kg	0.004	0.2	02-NOV-07
Barium (Ba)-Total		92.0	98.6		mg/kg	6.9	45	02-NOV-07
Beryllium (Be)-Total		<0.30	<0.30	RPD-NA	mg/kg	N/A	45	02-NOV-07
Bismuth (Bi)-Total		<0.30	<0.30	RPD-NA	mg/kg	N/A	45	02-NOV-07
Cadmium (Cd)-Total		<0.030	<0.030	RPD-NA	mg/kg	N/A	45	02-NOV-07
Calcium (Ca)-Total		7430	8100		mg/kg	8.6	45	02-NOV-07
Chromium (Cr)-Total		<0.50	<0.50	RPD-NA	mg/kg	N/A	45	02-NOV-07
Cobalt (Co)-Total		<0.10	<0.10	RPD-NA	mg/kg	N/A	45	02-NOV-07
Copper (Cu)-Total		4.24	4.40		mg/kg	3.8	45	02-NOV-07
Lead (Pb)-Total		0.18	0.19	J	mg/kg	0.01	0.4	02-NOV-07
Lithium (Li)-Total		<0.50	<0.50	RPD-NA	mg/kg	N/A	45	02-NOV-07
Magnesium (Mg)-Total		1720	1870		mg/kg	8.7	45	02-NOV-07
Manganese (Mn)-Total		290	298		mg/kg	2.8	45	02-NOV-07
Molybdenum (Mo)-Total		0.193	0.214	J	mg/kg	0.021	0.2	02-NOV-07
Nickel (Ni)-Total		<0.50	<0.50	RPD-NA	mg/kg	N/A	45	02-NOV-07

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Workorder: L552454

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-MS-VA	Tissue							
Batch	R596585							
WG684294-4	DUP	L552454-24						
Selenium (Se)-Total		<1.0	<1.0	RPD-NA	mg/kg	N/A	45	02-NOV-07
Strontium (Sr)-Total		10.6	11.5		mg/kg	7.6	45	02-NOV-07
Thallium (Tl)-Total		<0.030	<0.030	RPD-NA	mg/kg	N/A	45	02-NOV-07
Tin (Sn)-Total		<0.20	<0.20	RPD-NA	mg/kg	N/A	45	02-NOV-07
Uranium (U)-Total		<0.010	<0.010	RPD-NA	mg/kg	N/A	45	02-NOV-07
Vanadium (V)-Total		<0.50	<0.50	RPD-NA	mg/kg	N/A	45	02-NOV-07
Zinc (Zn)-Total		26.8	28.2		mg/kg	5.2	45	02-NOV-07
WG684294-5	DUP	L552454-40						
Aluminum (Al)-Total		<10	<10	RPD-NA	mg/kg	N/A	45	02-NOV-07
Antimony (Sb)-Total		<0.050	<0.050	RPD-NA	mg/kg	N/A	45	02-NOV-07
Arsenic (As)-Total		0.098	0.088	J	mg/kg	0.010	0.2	02-NOV-07
Barium (Ba)-Total		11.9	11.3		mg/kg	4.9	45	02-NOV-07
Beryllium (Be)-Total		<0.30	<0.30	RPD-NA	mg/kg	N/A	45	02-NOV-07
Bismuth (Bi)-Total		<0.30	<0.30	RPD-NA	mg/kg	N/A	45	02-NOV-07
Cadmium (Cd)-Total		<0.030	<0.030	RPD-NA	mg/kg	N/A	45	02-NOV-07
Calcium (Ca)-Total		22500	21200		mg/kg	5.8	45	02-NOV-07
Chromium (Cr)-Total		0.63	0.60	J	mg/kg	0.03	2	02-NOV-07
Cobalt (Co)-Total		0.19	0.17	J	mg/kg	0.02	0.4	02-NOV-07
Copper (Cu)-Total		1.66	1.45		mg/kg	14	45	02-NOV-07
Lead (Pb)-Total		<0.10	<0.10	RPD-NA	mg/kg	N/A	45	02-NOV-07
Lithium (Li)-Total		<0.50	<0.50	RPD-NA	mg/kg	N/A	45	02-NOV-07
Magnesium (Mg)-Total		5420	5140		mg/kg	5.2	45	02-NOV-07
Manganese (Mn)-Total		1830	1670		mg/kg	9.6	45	02-NOV-07
Molybdenum (Mo)-Total		0.720	0.709		mg/kg	1.5	45	02-NOV-07
Nickel (Ni)-Total		<0.50	<0.50	RPD-NA	mg/kg	N/A	45	02-NOV-07
Selenium (Se)-Total		<1.0	<1.0	RPD-NA	mg/kg	N/A	45	02-NOV-07
Strontium (Sr)-Total		71.6	67.8		mg/kg	5.4	45	02-NOV-07
Thallium (Tl)-Total		<0.030	<0.030	RPD-NA	mg/kg	N/A	45	02-NOV-07
Tin (Sn)-Total		<0.20	<0.20	RPD-NA	mg/kg	N/A	45	02-NOV-07
Uranium (U)-Total		<0.010	<0.010	RPD-NA	mg/kg	N/A	45	02-NOV-07
Vanadium (V)-Total		<0.50	<0.50	RPD-NA	mg/kg	N/A	45	02-NOV-07
Zinc (Zn)-Total		54.7	49.9		mg/kg	9.3	45	02-NOV-07
WG684294-1	MB							

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-MS-VA	Tissue							
Batch	R596585							
WG684294-1 MB								
Aluminum (Al)-Total			<10		mg/kg		10	02-NOV-07
Antimony (Sb)-Total			<0.050		mg/kg		0.05	02-NOV-07
Arsenic (As)-Total			<0.050		mg/kg		0.05	02-NOV-07
Barium (Ba)-Total			<0.050		mg/kg		0.05	02-NOV-07
Beryllium (Be)-Total			<0.30		mg/kg		0.3	02-NOV-07
Bismuth (Bi)-Total			<0.30		mg/kg		0.3	02-NOV-07
Cadmium (Cd)-Total			<0.030		mg/kg		0.03	02-NOV-07
Calcium (Ca)-Total			<10		mg/kg		10	02-NOV-07
Chromium (Cr)-Total			<0.50		mg/kg		0.5	02-NOV-07
Cobalt (Co)-Total			<0.10		mg/kg		0.1	02-NOV-07
Copper (Cu)-Total			<0.050		mg/kg		0.05	02-NOV-07
Lead (Pb)-Total			<0.10		mg/kg		0.1	02-NOV-07
Lithium (Li)-Total			<0.50		mg/kg		0.5	02-NOV-07
Magnesium (Mg)-Total			<3.0		mg/kg		3	02-NOV-07
Manganese (Mn)-Total			<0.050		mg/kg		0.05	02-NOV-07
Molybdenum (Mo)-Total			<0.050		mg/kg		0.05	02-NOV-07
Nickel (Ni)-Total			<0.50		mg/kg		0.5	02-NOV-07
Selenium (Se)-Total			<1.0		mg/kg		1	02-NOV-07
Strontium (Sr)-Total			<0.050		mg/kg		0.05	02-NOV-07
Thallium (Tl)-Total			<0.030		mg/kg		0.03	02-NOV-07
Tin (Sn)-Total			<0.20		mg/kg		0.2	02-NOV-07
Uranium (U)-Total			<0.010		mg/kg		0.01	02-NOV-07
Vanadium (V)-Total			<0.50		mg/kg		0.5	02-NOV-07
Zinc (Zn)-Total			<0.50		mg/kg		0.5	02-NOV-07
WG684294-2 MB								
Aluminum (Al)-Total			<10		mg/kg		10	02-NOV-07
Antimony (Sb)-Total			<0.050		mg/kg		0.05	02-NOV-07
Arsenic (As)-Total			<0.050		mg/kg		0.05	02-NOV-07
Barium (Ba)-Total			<0.050		mg/kg		0.05	02-NOV-07
Beryllium (Be)-Total			<0.30		mg/kg		0.3	02-NOV-07
Bismuth (Bi)-Total			<0.30		mg/kg		0.3	02-NOV-07
Cadmium (Cd)-Total			<0.030		mg/kg		0.03	02-NOV-07
Calcium (Ca)-Total			<10		mg/kg		10	02-NOV-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-DRY-MS-VA	Tissue							
Batch	R596585							
WG684294-2 MB								
Chromium (Cr)-Total			<0.50		mg/kg		0.5	02-NOV-07
Cobalt (Co)-Total			<0.10		mg/kg		0.1	02-NOV-07
Copper (Cu)-Total			<0.050		mg/kg		0.05	02-NOV-07
Lead (Pb)-Total			<0.10		mg/kg		0.1	02-NOV-07
Lithium (Li)-Total			<0.50		mg/kg		0.5	02-NOV-07
Magnesium (Mg)-Total			<3.0		mg/kg		3	02-NOV-07
Manganese (Mn)-Total			<0.050		mg/kg		0.05	02-NOV-07
Molybdenum (Mo)-Total			<0.050		mg/kg		0.05	02-NOV-07
Nickel (Ni)-Total			<0.50		mg/kg		0.5	02-NOV-07
Selenium (Se)-Total			<1.0		mg/kg		1	02-NOV-07
Strontium (Sr)-Total			<0.050		mg/kg		0.05	02-NOV-07
Thallium (Tl)-Total			<0.030		mg/kg		0.03	02-NOV-07
Tin (Sn)-Total			<0.20		mg/kg		0.2	02-NOV-07
Uranium (U)-Total			<0.010		mg/kg		0.01	02-NOV-07
Vanadium (V)-Total			<0.50		mg/kg		0.5	02-NOV-07
Zinc (Zn)-Total			<0.50		mg/kg		0.5	02-NOV-07
MET-WET-MS-VA	Tissue							
Batch	R596587							
WG684294-6 CRM		VA-NIST-1547						
Aluminum (Al)-Total			96		%		69-112	02-NOV-07
Barium (Ba)-Total			97		%		83-119	02-NOV-07
Calcium (Ca)-Total			101		%		87-114	02-NOV-07
Copper (Cu)-Total			99		%		86-115	02-NOV-07
Lead (Pb)-Total			98		%		79-120	02-NOV-07
Magnesium (Mg)-Total			103		%		65-135	02-NOV-07
Manganese (Mn)-Total			96		%		86-117	02-NOV-07
Strontium (Sr)-Total			106		%		93-125	02-NOV-07
Zinc (Zn)-Total			104		%		84-120	02-NOV-07
WG684294-7 CRM		VA-NIST-1515						
Aluminum (Al)-Total			104		%		66-109	02-NOV-07
Barium (Ba)-Total			102		%		90-113	02-NOV-07
Calcium (Ca)-Total			107		%		87-116	02-NOV-07
Copper (Cu)-Total			109		%		83-114	02-NOV-07

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MET-WET-MS-VA	Tissue							
Batch	R596587							
WG684294-7 CRM		VA-NIST-1515						
Lead (Pb)-Total			102		%		70-117	02-NOV-07
Magnesium (Mg)-Total			111		%		85-115	02-NOV-07
Manganese (Mn)-Total			102		%		89-116	02-NOV-07
Strontium (Sr)-Total			107		%		89-119	02-NOV-07
Zinc (Zn)-Total			108		%		84-115	02-NOV-07
WG684294-8 CRM		VA-NIST-1547						
Aluminum (Al)-Total			86		%		69-112	02-NOV-07
Barium (Ba)-Total			94		%		83-119	02-NOV-07
Calcium (Ca)-Total			97		%		87-114	02-NOV-07
Copper (Cu)-Total			97		%		86-115	02-NOV-07
Lead (Pb)-Total			99		%		79-120	02-NOV-07
Magnesium (Mg)-Total			103		%		65-135	02-NOV-07
Manganese (Mn)-Total			92		%		86-117	02-NOV-07
Strontium (Sr)-Total			102		%		93-125	02-NOV-07
Zinc (Zn)-Total			101		%		84-120	02-NOV-07
WG684294-9 CRM		VA-NIST-1515						
Aluminum (Al)-Total			89		%		66-109	02-NOV-07
Barium (Ba)-Total			96		%		90-113	02-NOV-07
Calcium (Ca)-Total			100		%		87-116	02-NOV-07
Copper (Cu)-Total			101		%		83-114	02-NOV-07
Lead (Pb)-Total			94		%		70-117	02-NOV-07
Magnesium (Mg)-Total			108		%		85-115	02-NOV-07
Manganese (Mn)-Total			96		%		89-116	02-NOV-07
Strontium (Sr)-Total			96		%		89-119	02-NOV-07
Zinc (Zn)-Total			103		%		84-115	02-NOV-07
WG684294-3 DUP		L552454-17						
Aluminum (Al)-Total		2.8	2.7	J	mg/kg wwt	0.0	8	02-NOV-07
Antimony (Sb)-Total		<0.010	<0.010	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Arsenic (As)-Total		0.059	0.050	J	mg/kg wwt	0.009	0.04	02-NOV-07
Barium (Ba)-Total		2.22	2.12		mg/kg wwt	4.9	45	02-NOV-07
Beryllium (Be)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Bismuth (Bi)-Total		<0.030	<0.030	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Cadmium (Cd)-Total		<0.0050	<0.0050	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07

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MET-WET-MS-VA	Tissue							
Batch	R596587							
WG684294-3	DUP	L552454-17						
Calcium (Ca)-Total		5760	5550		mg/kg wwt	3.8	45	02-NOV-07
Chromium (Cr)-Total		0.13	0.13	J	mg/kg wwt	0.00	0.4	02-NOV-07
Cobalt (Co)-Total		0.035	0.039	J	mg/kg wwt	0.003	0.08	02-NOV-07
Copper (Cu)-Total		0.146	0.098	J,G	mg/kg wwt	0.048	0.04	02-NOV-07
Lead (Pb)-Total		0.027	<0.020	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Lithium (Li)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Magnesium (Mg)-Total		1480	1400		mg/kg wwt	5.9	45	02-NOV-07
Manganese (Mn)-Total		233	224		mg/kg wwt	4.0	45	02-NOV-07
Molybdenum (Mo)-Total		0.191	0.204		mg/kg wwt	6.6	45	02-NOV-07
Nickel (Ni)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Selenium (Se)-Total		<0.20	<0.20	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Strontium (Sr)-Total		11.6	11.0		mg/kg wwt	5.2	45	02-NOV-07
Thallium (Tl)-Total		<0.010	<0.010	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Tin (Sn)-Total		<0.050	<0.050	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Uranium (U)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Vanadium (V)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Zinc (Zn)-Total		6.62	6.74		mg/kg wwt	1.7	45	02-NOV-07
WG684294-4	DUP	L552454-24						
Aluminum (Al)-Total		15.2	16.6	J	mg/kg wwt	1.4	8	02-NOV-07
Antimony (Sb)-Total		<0.010	<0.010	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Arsenic (As)-Total		0.027	0.025	J	mg/kg wwt	0.002	0.04	02-NOV-07
Barium (Ba)-Total		35.7	38.2		mg/kg wwt	6.9	45	02-NOV-07
Beryllium (Be)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Bismuth (Bi)-Total		<0.030	<0.030	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Cadmium (Cd)-Total		0.0086	0.0083	J	mg/kg wwt	0.0003	0.02	02-NOV-07
Calcium (Ca)-Total		2880	3140		mg/kg wwt	8.6	45	02-NOV-07
Chromium (Cr)-Total		0.16	0.15	J	mg/kg wwt	0.01	0.4	02-NOV-07
Cobalt (Co)-Total		<0.020	<0.020	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Copper (Cu)-Total		1.64	1.71		mg/kg wwt	3.8	45	02-NOV-07
Lead (Pb)-Total		0.070	0.073	J	mg/kg wwt	0.003	0.08	02-NOV-07
Lithium (Li)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Magnesium (Mg)-Total		665	726		mg/kg wwt	8.7	45	02-NOV-07
Manganese (Mn)-Total		112	116		mg/kg wwt	2.8	45	02-NOV-07

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MET-WET-MS-VA	Tissue							
Batch	R596587							
WG684294-4	DUP	L552454-24						
Molybdenum (Mo)-Total		0.075	0.083	J	mg/kg wwt	0.008	0.04	02-NOV-07
Nickel (Ni)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Selenium (Se)-Total		<0.20	<0.20	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Strontium (Sr)-Total		4.12	4.45		mg/kg wwt	7.6	45	02-NOV-07
Thallium (Tl)-Total		<0.010	<0.010	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Tin (Sn)-Total		<0.050	<0.050	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Uranium (U)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Vanadium (V)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Zinc (Zn)-Total		10.4	10.9		mg/kg wwt	5.2	45	02-NOV-07
WG684294-5	DUP	L552454-40						
Aluminum (Al)-Total		<2.0	<2.0	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Antimony (Sb)-Total		<0.010	<0.010	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Arsenic (As)-Total		0.025	0.023	J	mg/kg wwt	0.003	0.04	02-NOV-07
Barium (Ba)-Total		3.06	2.92		mg/kg wwt	4.9	45	02-NOV-07
Beryllium (Be)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Bismuth (Bi)-Total		<0.030	<0.030	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Cadmium (Cd)-Total		<0.0050	<0.0050	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Calcium (Ca)-Total		5790	5460		mg/kg wwt	5.8	45	02-NOV-07
Chromium (Cr)-Total		0.16	0.15	J	mg/kg wwt	0.01	0.4	02-NOV-07
Cobalt (Co)-Total		0.048	0.043	J	mg/kg wwt	0.005	0.08	02-NOV-07
Copper (Cu)-Total		0.428	0.373		mg/kg wwt	14	45	02-NOV-07
Lead (Pb)-Total		<0.020	<0.020	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Lithium (Li)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Magnesium (Mg)-Total		1390	1320		mg/kg wwt	5.2	45	02-NOV-07
Manganese (Mn)-Total		472	429		mg/kg wwt	9.6	45	02-NOV-07
Molybdenum (Mo)-Total		0.185	0.183		mg/kg wwt	1.5	45	02-NOV-07
Nickel (Ni)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Selenium (Se)-Total		<0.20	<0.20	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Strontium (Sr)-Total		18.4	17.5		mg/kg wwt	5.4	45	02-NOV-07
Thallium (Tl)-Total		<0.010	<0.010	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Tin (Sn)-Total		<0.050	<0.050	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Uranium (U)-Total		<0.0020	<0.0020	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07
Vanadium (V)-Total		<0.10	<0.10	RPD-NA	mg/kg wwt	N/A	45	02-NOV-07

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MET-WET-MS-VA	Tissue							
Batch	R596587							
WG684294-5	DUP	L552454-40						
Zinc (Zn)-Total		14.1	12.8		mg/kg wwt	9.3	45	02-NOV-07
WG684294-1	MB							
Aluminum (Al)-Total			<2.0		mg/kg wwt		2	02-NOV-07
Antimony (Sb)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Arsenic (As)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Beryllium (Be)-Total			<0.10		mg/kg wwt		0.1	02-NOV-07
Bismuth (Bi)-Total			<0.030		mg/kg wwt		0.03	02-NOV-07
Cadmium (Cd)-Total			<0.0050		mg/kg wwt		0.005	02-NOV-07
Calcium (Ca)-Total			<2.0		mg/kg wwt		2	02-NOV-07
Chromium (Cr)-Total			<0.10		mg/kg wwt		0.1	02-NOV-07
Cobalt (Co)-Total			<0.020		mg/kg wwt		0.02	02-NOV-07
Copper (Cu)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Lead (Pb)-Total			<0.020		mg/kg wwt		0.02	02-NOV-07
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	02-NOV-07
Magnesium (Mg)-Total			<1.0		mg/kg wwt		1	02-NOV-07
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Molybdenum (Mo)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Nickel (Ni)-Total			<0.10		mg/kg wwt		0.1	02-NOV-07
Selenium (Se)-Total			<0.20		mg/kg wwt		0.2	02-NOV-07
Strontium (Sr)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Thallium (Tl)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Tin (Sn)-Total			<0.050		mg/kg wwt		0.05	02-NOV-07
Uranium (U)-Total			<0.0020		mg/kg wwt		0.002	02-NOV-07
Vanadium (V)-Total			<0.10		mg/kg wwt		0.1	02-NOV-07
Zinc (Zn)-Total			<0.10		mg/kg wwt		0.1	02-NOV-07
WG684294-2	MB							
Aluminum (Al)-Total			<2.0		mg/kg wwt		2	02-NOV-07
Antimony (Sb)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Arsenic (As)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Barium (Ba)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Beryllium (Be)-Total			<0.10		mg/kg wwt		0.1	02-NOV-07
Bismuth (Bi)-Total			<0.030		mg/kg wwt		0.03	02-NOV-07

ALS Laboratory Group Quality Control Report

Workorder: L552454

Report Date: 09-NOV-07

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-WET-MS-VA	Tissue							
Batch	R596587							
WG684294-2	MB							
Cadmium (Cd)-Total			<0.0050		mg/kg wwt		0.005	02-NOV-07
Calcium (Ca)-Total			<2.0		mg/kg wwt		2	02-NOV-07
Chromium (Cr)-Total			<0.10		mg/kg wwt		0.1	02-NOV-07
Cobalt (Co)-Total			<0.020		mg/kg wwt		0.02	02-NOV-07
Copper (Cu)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Lead (Pb)-Total			<0.020		mg/kg wwt		0.02	02-NOV-07
Lithium (Li)-Total			<0.10		mg/kg wwt		0.1	02-NOV-07
Magnesium (Mg)-Total			<1.0		mg/kg wwt		1	02-NOV-07
Manganese (Mn)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Molybdenum (Mo)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Nickel (Ni)-Total			<0.10		mg/kg wwt		0.1	02-NOV-07
Selenium (Se)-Total			<0.20		mg/kg wwt		0.2	02-NOV-07
Strontium (Sr)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Thallium (Tl)-Total			<0.010		mg/kg wwt		0.01	02-NOV-07
Tin (Sn)-Total			<0.050		mg/kg wwt		0.05	02-NOV-07
Uranium (U)-Total			<0.0020		mg/kg wwt		0.002	02-NOV-07
Vanadium (V)-Total			<0.10		mg/kg wwt		0.1	02-NOV-07
Zinc (Zn)-Total			<0.10		mg/kg wwt		0.1	02-NOV-07
MOISTURE-TISS-VA	Tissue							
Batch	R595594							
WG684279-1	DUP	L552454-17						
% Moisture		71.5	71.6		%	0.072	30	01-NOV-07
WG684279-2	DUP	L552454-24						
% Moisture		61.2	59.9		%	2.2	30	01-NOV-07
WG684279-3	DUP	L552454-40						
% Moisture		74.3	74.4		%	0.21	30	01-NOV-07

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Workorder: L552454

Report Date: 09-NOV-07

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Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Qualifier:

RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.
A	Method blank exceeds acceptance limit. Blank correction not applied, unless the qualifier "RAMB" (result adjusted for method blank) appears in the Analytical Report.
B	Method blank result exceeds acceptance limit, however, it is less than 5% of sample concentration. Blank correction not applied.
E	Matrix spike recovery may fall outside the acceptance limits due to high sample background.
F	Silver recovery low, likely due to elevated chloride levels in sample.
G	Outlier - No assignable cause for nonconformity has been determined.
J	Duplicate results and limit(s) are expressed in terms of absolute difference.
K	The sample referenced above is of a non-standard matrix type; standard QC acceptance criteria may not be achievable.
L	Low matrix spike recovery due to instability of spiked analyte in the sample matrix.

COC #

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

CANADA TOLL FREE 1-800-668-9878

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REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED		ANALYSIS REQUEST	
COMPANY: <u>URS</u>		HARDCOPY: STANDARD <input checked="" type="checkbox"/> OTHER		REGULAR SERVICE (DEFAULT) <input checked="" type="checkbox"/>			
CONTACT: <u>Keith Montjoy</u>		ELECTRONIC: PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> CUSTOM		RUSH SERVICE (2-3 DAYS)			
ADDRESS: <u>650 West Georgia St, Suite 1900</u>		EMAIL 1: <u>keith.montjoy@urscorp.com</u>		PRIORITY SERVICE (1 DAY or ASAP)			
<u>Vancouver, BC V6B 4N7</u>		EMAIL 2: <u>eric.klein@urscorp.com</u>		EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS			
PHONE: <u>604-681-1672</u> FAX: <u>604-687-3446</u>							
INVOICE TO: SAME AS REPORT? <input checked="" type="checkbox"/> YES / NO		INDICATE BOTTLES: FILTERED / PRESERVED (F/P) --					
COMPANY:		CLIENT / PROJECT INFORMATION:					
CONTACT:		JOB # <u>39548877.2000</u>					
ADDRESS:		PO / A/E: <input checked="" type="checkbox"/>					
PHONE:		Legal Site Description: <u>M. nago</u>					
FAX:		QUOTE #:					
Lab Work Order # <u>L552454</u>		ALS CONTACT:					
SAMPLE IDENTIFICATION		SAMPLER (Initials):					
(This description will appear on the report)							
Sample #	DATE	TIME	SAMPLE TYPE	HAZARDOUS ?	HIGHLY CONTAMINATED ?	NUMBER OF CONTAINERS	
MN151 <i>Salix planifolia</i>	9/5/07	13:15	Plant tissue			1	
MN252 <i>Cledonia mitis</i>	9/5/07	15:26	Plant tissue			1	
MN353 <i>Ledum greenlandicum</i>	9/5/07	16:16	Plant tissue			1	
MN353D <i>Ledum greenlandicum</i>	9/5/07	16:16	Plant/Duplicate			1	
MN454 <i>Betula glandulosa</i>	9/6/07	10:46	Plant tissue			1	
MN555 <i>Chamaedaphne calyculata</i>	9/6/07	11:25	Plant tissue			1	
MN656 <i>Equisetum fluviatile</i>	9/6/07	12:37	Plant tissue			1	
MN657 <i>Betula glandulosa</i>	9/6/07	12:54	Plant tissue			1	
MN758 <i>Andromeda polifolia</i>	9/6/07	13:47	Plant tissue			1	
MN759 <i>Larix laricina</i>	9/6/07	13:47	Plant tissue			1	

TEMPERATURE: 15°

SAMPLE CONDITION (lab use only): YES / NO

RECEIVED BY: Eric Klein DATE & TIME: 9/9/07 1:00

RECEIVED BY: HP on wall DATE & TIME: 9/5/07

RECEIVED BY: HP on wall DATE & TIME: 9/5/07

FAILURE TO COMPLETE ALL PORTIONS OF THIS FORM MAY DELAY ANALYSIS. PLEASE FILL IN THIS FORM LEGIBLY.

BY THE USE OF THIS FORM THE USER ACKNOWLEDGES AND AGREES WITH THE TERMS AND CONDITIONS AS SPECIFIED BELOW.

SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM COC # _____
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REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY:		HARDCOPY: STANDARD _____ OTHER _____		REGULAR SERVICE (DEFAULT)	
CONTACT:		ELECTRONIC: PDF _____ EXCEL _____ CUSTOM _____		RUSH SERVICE (2-3 DAYS)	
ADDRESS:		EMAIL 1:		PRIORITY SERVICE (1 DAY or ASAP)	
PHONE:		EMAIL 2:		EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
INVOICE TO: SAME AS REPORT? YES / NO		INDICATE BOTTLES FILTERED / PRESERVED (FP) -- --		ANALYSIS REQUEST	
COMPANY:		CLIENT / PROJECT INFORMATION:			
CONTACT:		JOB #:			
ADDRESS:		PO / A/E:			
PHONE:		Legal Site Description:			
FAX:		QUOTE #:			
ALS CONTACT:		SAMPLER (Initials):			
Lab Work Order # (lab use only)		DATE		TIME	
L552454		SAMPLE IDENTIFICATION		SAMPLE TYPE	
(This description will appear on the report)		DATE		TIME	
MN759D	Larix laricina	9/6/07	13:47	Plant Dependent	X
MN851D	Evernia mesomorpha	9/6/07	14:40	Plant tissue	X
MN851I	Alnus crispa	9/6/07	14:40	Plant tissue	X
MN9512	Salix bebbiana	9/6/07	15:13	Plant tissue	X
MN10513	Bidens cernua	9/6/07	15:43	Plant tissue	X
MN11514	Mexanthes trifoliata	9/6/07	16:50	Plant tissue	X
MN11515	Egoisetum fluviatile	9/6/07	17:03	Plant tissue	X
MN12516	Betula glandulosa	9/6/07	17:30	Plant tissue	X
MN12517	Oxycoocus microcarpa	9/6/07	17:30	Plant tissue	X
MN13518	Ledum greenlandicum	9/7/07	10:30	Plant tissue	X

HAZARDOUS ? HIGHLY CONTAMINATED ? NUMBER OF CONTAINERS

Wet Weight Metals Dry Weight Metals

Moisture

SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified below.

RELINQUISHED BY: Eric Klein RECEIVED BY: HPD 07609111 DATE & TIME: 9/4/07 1100 DATE & TIME: 9:57

TEMPERATURE: 15 SAMPLE CONDITION (lab use only): (if no provide details) YES / NO: ()

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM
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COC # _____
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REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED	
COMPANY:		HARD COPY: STANDARD		REGULAR SERVICE (DEFAULT)	
CONTACT:		ELECTRONIC: PDF		RUSH SERVICE (2-3 DAYS)	
ADDRESS:		EXCEL		PRIORITY SERVICE (1 DAY or ASAP)	
PHONE:		FAX:		EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS	
INVOICE TO: SAME AS REPORT ? YES / NO		INDICATE BOTTLES: FILTERED / PRESERVED (FIP) -- --		ANALYSIS REQUEST	
COMPANY:		CLIENT / PROJECT INFORMATION:			
CONTACT:		JOB #:			
ADDRESS:		PO / AFE:			
PHONE:		Legal Site Description:			
FAX:		QUOTE #:			
ALS CONTACT:		SAMPLER (Initials):			
Lab Work Order # (lab use only)		DATE		TIME	
L552454		9/7/07		1030	
SAMPLE IDENTIFICATION		DATE		TIME	
(This description will appear on the report)		9/7/07		1110	
MN 13 S19 Betula glandulosa		9/7/07		1110	
MN 14 S20 Lladina mitis		9/7/07		1110	
MN 14 S21 Ledum greenlandicum		9/7/07		1226	
MN 14 S21 D Ledum greenlandicum		9/7/07		1226	
MN 15 S22 Larix laricina		9/7/07		1335	
MN 15 S23 Sarracenia purpurea		9/7/07		1335	
MN 16 S24 Betula glandulosa		9/7/07		1445	
MN 16 S25 Salix planifolia		9/7/07		1642	
MN 17 S26 Andromeda polifolia		9/7/07			
MN 18 S27 Chamaedaphne ciliolata		9/7/07			

GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS	
Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.		By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified below.	
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:
Geri Klein	9/9/07 1100	HD 0709/11	9/5/7
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:
		TEMPERATURE	15
		SAMPLE CONDITION (lab use only)	
		SAMPLES RECEIVED IN GOOD CONDITION (YES) NO	
		<input checked="" type="radio"/> YES <input type="radio"/> NO	

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

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COC #

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REPORT TO:		REPORT FORMAT / DISTRIBUTION		SERVICE REQUESTED			
COMPANY:		HARDCOPY: STANDARD _____ OTHER _____		REGULAR SERVICE (DEFAULT)			
CONTACT:		ELECTRONIC: PDF _____ EXCEL _____ CUSTOM _____		RUSH SERVICE (2-3 DAYS)			
ADDRESS:		EMAIL 1:		PRIORITY SERVICE (1 DAY or ASAP)			
PHONE:		EMAIL 2:		EMERGENCY SERVICE (<1 DAY / WEEKEND) - CONTACT ALS			
INVOICE TO: SAME AS REPORT ? YES / NO		INDICATE BOTTLES: FILTERED / PRESERVED (F/P) -->		ANALYSIS REQUEST			
COMPANY:		CLIENT / PROJECT INFORMATION:					
CONTACT:		JOB #:					
ADDRESS:		PO / A/E:					
PHONE:		Legal Site Description:					
FAX:		QUOTE #:					
Lab Work Order #		ALS CONTACT					
L552454		SAMPLER (initials):					
Sample #	SAMPLE IDENTIFICATION (This description will appear on the report)	DATE	TIME	SAMPLE TYPE	HAZARDOUS ?	HIGHLY CONTAMINATED ?	NUMBER OF CONTAINERS
	MN 24 536 <i>Arctostaphylos rubra</i>	9/8/07	1500	Plant tissue	X		1
	MN 24 537 <i>Larix laricina</i>	9/8/07	1500	Plant tissue	X		1
	MN 25 538 <i>Menyanthes trifoliata</i>	9/8/07	1537	Plant tissue	X		1
	MN 25 539 <i>Utricularia intermedia</i>	9/8/07	1537	Plant tissue	X		1
	MN 25 540 <i>Oxycoccus microcarpa</i>	9/8/07	1650	Plant tissue	X		1
				Moisture			
				Wet Weight Metals			
				Dry Weight Metals			
GUIDELINES / REGULATIONS		SPECIAL INSTRUCTIONS / HAZARDOUS DETAILS					

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified below.

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	TEMPERATURE	SAMPLE CONDITION (lab use only)	SAMPLES RECEIVED IN GOOD CONDITION (YES / NO)
<i>Eric Klein</i>	9/4/07 1100	<i>HD07/09/11</i>	9:57	15		
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:			

