



AECOM Canada Ltd. (Winnipeg)
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Winnipeg MB R3P 0Y7

Date Received: 21-MAY-11
Report Date: 09-JUN-11 12:08 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1007855
Project P.O. #: NOT SUBMITTED
Job Reference: 60212443-200
Legal Site Desc:
C of C Numbers:

Paul Nicolas
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007855-1							
GHL-01							
Sampled By: CLIENT on 20-MAY-11 @ 11:37							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	1.4		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	<1.0		1.0	mg/L	21-MAY-11	26-MAY-11	R2194065
Chloride (Cl)	1.15		0.50	mg/L		26-MAY-11	R2193628
Colour, True	24.1		5.0	CU		23-MAY-11	R2193912
Dissolved Organic Carbon	12.9		1.0	mg/L		03-JUN-11	R2198135
Fluoride (F)	<0.050		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	52.1		0.30	mg/L		26-MAY-11	
Hardness (as CaCO3)	45.2		0.20	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.016		0.010	mg/L		27-MAY-11	R2195667
Silica, Reactive (as SiO2)	0.726	DLA	0.050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	6.78		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	42.0		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	0.90		0.20	mg/L	21-MAY-11	31-MAY-11	R2196670
Total Organic Carbon	14.3		1.0	mg/L		03-JUN-11	R2198135
Total Suspended Solids	7.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	1.47		0.10	NTU		25-MAY-11	R2193736
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0423		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00176		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0117		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	0.012		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	12.2		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	0.00052		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	0.16		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	0.000099		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0033		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	5.22		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	0.0457		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	0.913		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.00108		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	0.397		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	1.40		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.0283		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007855-1							
GHL-01							
Sampled By: CLIENT on 20-MAY-11 @ 11:37							
Matrix: WATER							
Total Metals by ICP-MS							
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00038		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	0.00028		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	0.0078		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0240		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00147		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0109		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	21-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	10.8		0.050	mg/L	21-MAY-11	26-MAY-11	R2193987
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00032		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	21-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	21-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0024		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	4.423		0.010	mg/L	21-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	0.00081		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	21-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	21-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	0.769		0.020	mg/L	21-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.00108		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	21-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	0.345		0.050	mg/L	21-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	1.33		0.020	mg/L	21-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	0.0276		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	0.00041		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	0.0036		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	21-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	2.81		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007855-1	GHL-01						
Sampled By:	CLIENT on 20-MAY-11 @ 11:37						
Matrix:	WATER						
Chlorophyll a, Pheophytin by fluorometry							
Phaeophytin a	2.68		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	38.0		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	46.3		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	<0.60		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	<0.40		0.40	mg/L		26-MAY-11	R2194654
Conductivity							
Conductivity	93.8		0.40	umhos/cm		26-MAY-11	R2194654
pH							
pH	7.74		0.10	pH units		26-MAY-11	R2194654
L1007855-2	GHL-02						
Sampled By:	CLIENT on 20-MAY-11 @ 12:09						
Matrix:	WATER						
Miscellaneous Parameters							
Acidity (as CaCO3)	1.6		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	<1.0		1.0	mg/L	21-MAY-11	26-MAY-11	R2194065
Chloride (Cl)	1.08		0.50	mg/L		26-MAY-11	R2193628
Colour, True	24.5		5.0	CU		23-MAY-11	R2193912
Dissolved Organic Carbon	12.9		1.0	mg/L		03-JUN-11	R2198135
Fluoride (F)	<0.050		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	45.9		0.20	mg/L		26-MAY-11	
Hardness (as CaCO3)	47.4		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.015		0.010	mg/L		27-MAY-11	R2195667
Silica, Reactive (as SiO2)	0.730	DLA	0.050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	6.91		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	46.0		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	0.88		0.20	mg/L	21-MAY-11	31-MAY-11	R2196670
Total Organic Carbon	14.0		1.0	mg/L		03-JUN-11	R2198135
Total Suspended Solids	5.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	1.43		0.10	NTU		25-MAY-11	R2193736
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0393		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00155		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0113		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	11.3		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007855-2							
GHL-02							
Sampled By: CLIENT on 20-MAY-11 @ 12:09							
Matrix: WATER							
Total Metals by ICP-MS							
Copper (Cu)-Total	0.00046		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	0.16		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	0.000097		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0030		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	4.67		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	0.0443		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	0.841		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.00107		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	0.417		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	1.34		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.0281		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00032		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	0.00023		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	0.0083		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0240		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00021		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00143		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0101		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	21-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	11.0		0.050	mg/L	21-MAY-11	26-MAY-11	R2193987
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00033		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	21-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	21-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0030		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	4.47		0.010	mg/L	21-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	0.00109		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	21-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	21-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	0.762		0.020	mg/L	21-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.00106		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	21-MAY-11	26-MAY-11	R2193987

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007855-2							
GHL-02							
Sampled By:	CLIENT on 20-MAY-11 @ 12:09						
Matrix:	WATER						
Dissolved Metals by ICP-MS							
Silicon (Si)-Dissolved	0.345		0.050	mg/L	21-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	1.32		0.020	mg/L	21-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	0.0271		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	0.00035		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	0.0065		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	21-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	3.09		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	2.55		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	37.3		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	45.5		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	<0.60		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	<0.40		0.40	mg/L		26-MAY-11	R2194654
Conductivity							
Conductivity	93.1		0.40	umhos/cm		26-MAY-11	R2194654
pH							
pH	7.76		0.10	pH units		26-MAY-11	R2194654
L1007855-3							
GHL-03							
Sampled By:	CLIENT on 20-MAY-11 @ 12:35						
Matrix:	WATER						
Miscellaneous Parameters							
Acidity (as CaCO3)	1.4		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	<1.0		1.0	mg/L	21-MAY-11	26-MAY-11	R2194065
Chloride (Cl)	1.19		0.50	mg/L		26-MAY-11	R2193628
Colour, True	24.4		5.0	CU		23-MAY-11	R2193912
Dissolved Organic Carbon	12.9		1.0	mg/L		03-JUN-11	R2198135
Fluoride (F)	<0.050		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	43.0		0.20	mg/L		26-MAY-11	
Hardness (as CaCO3)	49.7		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.015		0.010	mg/L		27-MAY-11	R2195667
Silica, Reactive (as SiO2)	0.715	DLA	0.050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	6.86		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	50.0		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	0.89		0.20	mg/L	21-MAY-11	31-MAY-11	R2196670

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007855-3	GHL-03						
Sampled By:	CLIENT on 20-MAY-11 @ 12:35						
Matrix:	WATER						
Total Organic Carbon	14.0		1.0	mg/L		03-JUN-11	R2198135
Total Suspended Solids	5.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	1.40		0.10	NTU		25-MAY-11	R2193736
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0411		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00162		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0114		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	<0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	11.9		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	0.00044		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	0.15		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	0.000103		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0026		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	4.87		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	0.0367		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	0.868		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.00106		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	0.394		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	1.34		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.0276		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00034		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	0.00026		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	0.0096		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0242		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00023		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00132		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0102		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	21-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	10.2		0.050	mg/L	21-MAY-11	26-MAY-11	R2193987

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007855-3							
GHL-03							
Sampled By: CLIENT on 20-MAY-11 @ 12:35							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00036		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	21-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	21-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0023		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	4.25		0.010	mg/L	21-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	0.00080		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	21-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	21-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	0.728		0.020	mg/L	21-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.00104		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	21-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	0.337		0.050	mg/L	21-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	1.26		0.020	mg/L	21-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	0.0265		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	0.0050		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	21-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	3.39		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	2.61		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	37.5		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	45.8		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	<0.60		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	<0.40		0.40	mg/L		26-MAY-11	R2194654
Conductivity							
Conductivity	93.1		0.40	umhos/cm		26-MAY-11	R2194654
pH							
pH	7.80		0.10	pH units		26-MAY-11	R2194654
L1007855-4							
TED-01							
Sampled By: CLIENT on 20-MAY-11 @ 14:30							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	2.4		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	<1.0		1.0	mg/L	21-MAY-11	26-MAY-11	R2194065
Chloride (Cl)	7.18		0.50	mg/L		26-MAY-11	R2193628

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007855-4 TED-01							
Sampled By: CLIENT on 20-MAY-11 @ 14:30							
Matrix: WATER							
Colour, True	78.4		5.0	CU		23-MAY-11	R2193912
Dissolved Organic Carbon	17.8		1.0	mg/L		03-JUN-11	R2198135
Fluoride (F)	<0.050		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	57.9		0.30	mg/L		26-MAY-11	
Hardness (as CaCO3)	53.5		0.20	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.018		0.010	mg/L		27-MAY-11	R2195667
Silica, Reactive (as SiO2)	0.569	DLA	0.050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	1.00		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	80.0		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	0.89		0.20	mg/L	21-MAY-11	31-MAY-11	R2196670
Total Organic Carbon	19.1		1.0	mg/L		03-JUN-11	R2198135
Total Suspended Solids	6.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	0.85		0.10	NTU		25-MAY-11	R2193736
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0258		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00087		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0134		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	<0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	15.6		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	0.00053		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	0.25		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	<0.000090		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0033		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	4.60		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	0.0285		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	2.96		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.00233		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	0.338		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	3.46		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.0295		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00076		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007855-4 TED-01							
Sampled By: CLIENT on 20-MAY-11 @ 14:30							
Matrix: WATER							
Total Metals by ICP-MS							
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	0.00024		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0094		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00023		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00090		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0134		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	21-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	14.3		0.050	mg/L	21-MAY-11	26-MAY-11	R2193987
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00044		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	0.15		0.10	mg/L	21-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	21-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0029		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	4.32		0.010	mg/L	21-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	0.00599		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	0.00017		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	21-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	21-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	2.68		0.020	mg/L	21-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.00228		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	21-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	0.313		0.050	mg/L	21-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	3.60		0.020	mg/L	21-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	0.0278		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	0.00047		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	21-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	6.36		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	5.87		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	47.5		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	57.9		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	<0.60		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	<0.40		0.40	mg/L		26-MAY-11	R2194654

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007855-4 TED-01 Sampled By: CLIENT on 20-MAY-11 @ 14:30 Matrix: WATER							
Conductivity Conductivity	119		0.40	umhos/cm		26-MAY-11	R2194654
pH pH	7.70		0.10	pH units		26-MAY-11	R2194654
L1007855-5 TRB-01 Sampled By: CLIENT on 20-MAY-11 @ 15:15 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	1.2		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	<1.0		1.0	mg/L	21-MAY-11	26-MAY-11	R2194065
Chloride (Cl)	<0.50		0.50	mg/L		26-MAY-11	R2193628
Colour, True	<5.0		5.0	CU		23-MAY-11	R2193912
Dissolved Organic Carbon	<1.0		1.0	mg/L		03-JUN-11	R2198135
Fluoride (F)	<0.050		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	<0.20		0.20	mg/L		26-MAY-11	
Hardness (as CaCO3)	<0.30		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	<0.010		0.010	mg/L		27-MAY-11	R2195667
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	<0.50		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	<5.0		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	21-MAY-11	31-MAY-11	R2196670
Total Organic Carbon	<1.0		1.0	mg/L		03-JUN-11	R2198135
Total Suspended Solids	<5.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	<0.10		0.10	NTU		25-MAY-11	R2193736
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	<0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	<0.10		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	<0.10		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	<0.000090		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	<0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007855-5 TRB-01							
Sampled By: CLIENT on 20-MAY-11 @ 15:15							
Matrix: WATER							
Total Metals by ICP-MS							
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	<0.020		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	<0.050		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	<0.030		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00038		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	<0.050		0.050	mg/L	21-MAY-11	26-MAY-11	R2193987
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	21-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	21-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	21-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	21-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	21-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	<0.020		0.020	mg/L	21-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	21-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	21-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	21-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007855-5 TRB-01							
Sampled By: CLIENT on 20-MAY-11 @ 15:15							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	21-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	21-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	21-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	21-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	<0.20	DLB	0.20	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	2.0		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	2.5		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	<0.60		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	<0.40		0.40	mg/L		26-MAY-11	R2194654
Conductivity							
Conductivity	0.42		0.40	umhos/cm		01-JUN-11	R2197367
pH							
pH	5.98		0.10	pH units		26-MAY-11	R2194654

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution
DLB	Detection limit was raised due to detection of analyte at comparable level in Method Blank.
DLM	Detection Limit Adjusted For Sample Matrix Effects
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B
Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically.			
BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.			
BR-IC-ED	Water	Bromide by IC	APHA 4110 B-ION CHROMATOGRAPHY
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
CHL,PHEO-FLUORO-WP	Water	Chlorophyll a, Pheophytin by fluorometry	EPA 445.0
Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification.			
CL-IC-ED	Water	Chloride by IC	APHA 4110 B-ION CHROMATOGRAPHY
COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR
This analysis is carried out using procedures adapted from APHA 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. 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-WP	Water	Conductivity	APHA 2510B
Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	HARDNESS CALCULATED
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
F-IC-ED	Water	Fluoride by IC	APHA 4110 B-ION CHROMATOGRAPHY
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
		Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
		Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
		Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.	
N2N3-COL-WP	Water	Nitrate + Nitrite	APHA4500;2005/LACHAT;1997,1999
		The sample is passed through a column containing cadmium granules coated with copper sulphate, reducing nitrate to nitrite. The resulting nitrites plus those originally present in the sample are reacted with sulfanilamide (an organic amine) to form the diazonium salt which is coupled in an acidic solution with N-(1-naphthyl)-ethylenediamine dihydrochloride, to form azo dye. The azo dye intensity is measured by a colorimeter at 520 nm. The Omnion software compares the sample peak areas to a calibration curve and reports the concentration of nitrate-nitrite in the sample as nitrogen.	
		Reference: APHA, AWWA, WPCF, Standard Methods for the Examination of Water and Wastewaters, 20th Edition, Washington, 1998. Method 4500-NO3-I	
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
		Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.	
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
		This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourmetrically after persulphate digestion of the sample.	
PH-WP	Water	pH	APHA 4500H
		The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.	
SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2
		This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.	
SO4-IC-ED	Water	Sulfate by IC	APHA 4110 B-ION CHROMATOGRAPHY
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540C
		The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.	
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540D

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.

TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B
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A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
ED	ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1007855

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R2200530							
WG1292189-2	CVS							
Acidity (as CaCO3)			104		%		85-115	03-JUN-11
WG1292189-3	DUP	L1007855-2						
Acidity (as CaCO3)		1.6	1.6		mg/L	0.32	400	03-JUN-11
WG1292189-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	03-JUN-11
ALK-TOT-WP								
	Water							
Batch	R2194654							
WG1285720-4	DUP	L1008444-1						
Alkalinity, Total (as CaCO3)		37.9	37.8		mg/L	0.21	20	26-MAY-11
Bicarbonate (HCO3)		46.2	46.1		mg/L	0.21	25	26-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	26-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	26-MAY-11
WG1285720-5	DUP	L1008005-3						
Alkalinity, Total (as CaCO3)		70.0	70.0		mg/L	0.087	20	26-MAY-11
Bicarbonate (HCO3)		85.4	85.3		mg/L	0.087	25	26-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	26-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	26-MAY-11
BOD-CBOD-WP								
	Water							
Batch	R2194065							
WG1283105-3	DUP	L1007860-1						
BOD Carbonaceous		1420	1390		mg/L	2.1	20	26-MAY-11
WG1283105-2	IRM	61-GG						
BOD Carbonaceous			95		%		85-115	26-MAY-11
WG1283105-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	26-MAY-11
BR-IC-ED								
	Water							
Batch	R2193628							
WG1284220-3	DUP	L1007494-186						
Bromide (Br)		1.2	1.2		mg/L	1.7	20	25-MAY-11
WG1284220-5	DUP	L1007494-401						
Bromide (Br)		1.4	1.4		mg/L	2.0	20	25-MAY-11
WG1284220-7	DUP	L1008005-7						
Bromide (Br)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Bromide (Br)			109		%		85-115	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BR-IC-ED		Water						
Batch	R2193628							
WG1284220-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	25-MAY-11
WG1284220-4	MS	L1007494-186						
Bromide (Br)			92		%		75-125	25-MAY-11
WG1284220-6	MS	L1007494-401						
Bromide (Br)			N/A	MS-B	%		-	25-MAY-11
WG1284220-8	MS	L1008005-7						
Bromide (Br)			104		%		75-125	26-MAY-11
C-DIS-ORG-WP		Water						
Batch	R2198135							
WG1289559-2	CVS							
Dissolved Organic Carbon			105		%		80-120	02-JUN-11
WG1289542-2	DUP	L1010027-2						
Dissolved Organic Carbon		4.0	4.1		mg/L	2.1	400	03-JUN-11
WG1289542-1	MB							
Dissolved Organic Carbon			<1.0		mg/L		1	02-JUN-11
C-TOT-ORG-WP		Water						
Batch	R2198135							
WG1289559-2	CVS							
Total Organic Carbon			103		%		80-120	02-JUN-11
WG1289559-3	DUP	L1007603-4						
Total Organic Carbon		11.3	11.2		mg/L	1.2	20	03-JUN-11
WG1289559-1	MB							
Total Organic Carbon			<1.0		mg/L		1	02-JUN-11
CHL,PHEO-FLUORO-WP		Water						
Batch	R2193661							
WG1284255-1	CVS							
Chlorophyll a			80		%		65-135	25-MAY-11
WG1284255-2	CVS							
Chlorophyll a			101		%		65-135	25-MAY-11
WG1284251-2	DUP	L1007855-1						
Chlorophyll a		2.81	3.71		ug/L	28	35	25-MAY-11
Phaeophytin a		2.68	3.22		ug/L	18	35	25-MAY-11
WG1284251-3	DUP	L1008005-2						
Chlorophyll a		3.19	3.24		ug/L	1.6	35	25-MAY-11
Phaeophytin a		3.30	3.20		ug/L	3.1	35	25-MAY-11
CL-IC-ED		Water						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-IC-ED		Water						
Batch	R2193628							
WG1284220-7	DUP	L1008005-7						
Chloride (Cl)		<0.50	<0.50	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Chloride (Cl)			98		%		85-115	25-MAY-11
WG1284220-1	MB							
Chloride (Cl)			<0.50		mg/L		0.5	25-MAY-11
WG1284220-8	MS	L1008005-7						
Chloride (Cl)			108		%		75-125	26-MAY-11
COLOUR-TRUE-WP		Water						
Batch	R2193912							
WG1283679-3	DUP	L1007018-1						
Colour, True		<5.0	<5.0	RPD-NA	CU	N/A	400	23-MAY-11
WG1283679-4	DUP	L1007855-4						
Colour, True		78.4	82.4		CU	5.0	20	23-MAY-11
WG1283679-2	LCS							
Colour, True			100		%		85-115	23-MAY-11
WG1283679-1	MB							
Colour, True			<5.0		CU		5	23-MAY-11
EC-WP		Water						
Batch	R2194654							
WG1285720-1	CVS							
Conductivity			97		%		90-110	26-MAY-11
WG1285720-5	DUP	L1008005-3						
Conductivity		159	158		umhos/cm	0.69	10	26-MAY-11
Batch	R2197367							
WG1288805-1	CVS							
Conductivity			99		%		90-110	01-JUN-11
WG1288805-2	DUP	L1008005-7						
Conductivity		0.96	0.96		umhos/cm	0.0	400	01-JUN-11
F-IC-ED		Water						
Batch	R2193628							
WG1284220-3	DUP	L1007494-186						
Fluoride (F)		4.13	4.05		mg/L	2.1	20	25-MAY-11
WG1284220-5	DUP	L1007494-401						
Fluoride (F)		1.99	1.98		mg/L	0.45	20	25-MAY-11
WG1284220-7	DUP	L1008005-7						
Fluoride (F)		<0.050	<0.050	RPD-NA	mg/L	N/A	20	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-ED		Water						
Batch	R2193628							
WG1284220-2	LCS							
Fluoride (F)			106		%		85-115	25-MAY-11
WG1284220-1	MB							
Fluoride (F)			<0.050		mg/L		0.05	25-MAY-11
WG1284220-4	MS	L1007494-186						
Fluoride (F)			N/A	MS-B	%		-	25-MAY-11
WG1284220-6	MS	L1007494-401						
Fluoride (F)			N/A	MS-B	%		-	25-MAY-11
WG1284220-8	MS	L1008005-7						
Fluoride (F)			120		%		75-125	26-MAY-11
HG-D-CVAF-WP		Water						
Batch	R2194712							
WG1285755-3	DUP	L1007855-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1285755-5	DUP	L1008007-5						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1285755-2	LCS							
Mercury (Hg)-Dissolved			98		%		80-120	26-MAY-11
Mercury (Hg)-Dissolved			98		%		80-120	26-MAY-11
WG1285754-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
WG1285755-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
WG1285755-4	MS	L1007855-1						
Mercury (Hg)-Dissolved			110		%		70-130	26-MAY-11
Mercury (Hg)-Dissolved			110		%		70-130	26-MAY-11
WG1285755-6	MS	L1008007-5						
Mercury (Hg)-Dissolved			93		%		70-130	26-MAY-11
Mercury (Hg)-Dissolved			93		%		70-130	26-MAY-11

HG-T-CVAF-WP **Water**



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
	Water							
Batch	R2194078							
WG1285021-3	DUP	L1007210-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
WG1285021-5	DUP	L1008005-5						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
WG1285021-2	LCS							
Mercury (Hg)-Total			88		%		80-120	25-MAY-11
Mercury (Hg)-Total			88		%		80-120	25-MAY-11
WG1285021-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	25-MAY-11
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	25-MAY-11
WG1285021-4	MS	L1006894-1						
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
WG1285021-6	MS	L1008005-5						
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
MET-D-L-MS-WP								
	Water							
Batch	R2193987							
WG1284822-4	DUP	WG1284822-3						
Aluminum (Al)-Dissolved		0.0298	0.0288		mg/L	3.3	20	26-MAY-11
Antimony (Sb)-Dissolved		0.00364	0.00361		mg/L	0.86	20	26-MAY-11
Arsenic (As)-Dissolved		0.00377	0.00368		mg/L	2.6	20	26-MAY-11
Barium (Ba)-Dissolved		0.0252	0.0256		mg/L	1.6	20	26-MAY-11
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Boron (B)-Dissolved		0.026	0.028		mg/L	6.0	400	26-MAY-11
Cadmium (Cd)-Dissolved		0.00326	0.00329		mg/L	0.92	20	26-MAY-11
Calcium (Ca)-Dissolved		167	168		mg/L	0.60	20	26-MAY-11
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Chromium (Cr)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	26-MAY-11
Cobalt (Co)-Dissolved		0.00105	0.00102		mg/L	2.8	20	26-MAY-11
Copper (Cu)-Dissolved		0.0293	0.0293		mg/L	0.16	20	26-MAY-11
Iron (Fe)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2193987							
WG1284822-4	DUP	WG1284822-3						
Lead (Pb)-Dissolved		0.000357	0.000355		mg/L	0.56	400	26-MAY-11
Lithium (Li)-Dissolved		0.0072	0.0080		mg/L	10	400	26-MAY-11
Magnesium (Mg)-Dissolved		8.79	8.62		mg/L	2.0	20	26-MAY-11
Manganese (Mn)-Dissolved		0.0681	0.0682		mg/L	0.11	20	26-MAY-11
Molybdenum (Mo)-Dissolved		0.00365	0.00364		mg/L	0.30	20	26-MAY-11
Nickel (Ni)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	26-MAY-11
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	26-MAY-11
Potassium (K)-Dissolved		5.88	5.81		mg/L	1.2	20	26-MAY-11
Rubidium (Rb)-Dissolved		0.00645	0.00637		mg/L	1.2	20	26-MAY-11
Selenium (Se)-Dissolved		0.0149	0.0143		mg/L	4.0	20	26-MAY-11
Silicon (Si)-Dissolved		1.17	1.20		mg/L	2.5	20	26-MAY-11
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Sodium (Na)-Dissolved		254	258		mg/L	1.6	20	26-MAY-11
Strontium (Sr)-Dissolved		1.03	1.02		mg/L	1.1	20	26-MAY-11
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	26-MAY-11
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Titanium (Ti)-Dissolved		0.00139	0.00128		mg/L	8.3	20	26-MAY-11
Tungsten (W)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Vanadium (V)-Dissolved		0.00047	0.00049		mg/L	3.7	400	26-MAY-11
Zinc (Zn)-Dissolved		0.423	0.425		mg/L	0.41	20	26-MAY-11
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	26-MAY-11
WG1284822-2	LCS							
Aluminum (Al)-Dissolved			109		%		80-120	26-MAY-11
Antimony (Sb)-Dissolved			103		%		80-120	26-MAY-11
Arsenic (As)-Dissolved			100		%		80-120	26-MAY-11
Barium (Ba)-Dissolved			102		%		80-120	26-MAY-11
Beryllium (Be)-Dissolved			103		%		80-120	26-MAY-11
Bismuth (Bi)-Dissolved			109		%		80-120	26-MAY-11
Boron (B)-Dissolved			104		%		80-120	26-MAY-11
Cadmium (Cd)-Dissolved			106		%		80-120	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2193987							
WG1284822-2	LCS							
Calcium (Ca)-Dissolved			101		%		80-120	26-MAY-11
Cesium (Cs)-Dissolved			100		%		80-120	26-MAY-11
Chromium (Cr)-Dissolved			103		%		80-120	26-MAY-11
Cobalt (Co)-Dissolved			100		%		80-120	26-MAY-11
Copper (Cu)-Dissolved			99		%		80-120	26-MAY-11
Iron (Fe)-Dissolved			99		%		80-120	26-MAY-11
Lead (Pb)-Dissolved			101		%		80-120	26-MAY-11
Lithium (Li)-Dissolved			103		%		80-120	26-MAY-11
Magnesium (Mg)-Dissolved			104		%		80-120	26-MAY-11
Manganese (Mn)-Dissolved			101		%		80-120	26-MAY-11
Molybdenum (Mo)-Dissolved			106		%		80-120	26-MAY-11
Nickel (Ni)-Dissolved			99		%		80-120	26-MAY-11
Phosphorus (P)-Dissolved			103		%		80-120	26-MAY-11
Potassium (K)-Dissolved			103		%		80-120	26-MAY-11
Rubidium (Rb)-Dissolved			107		%		80-120	26-MAY-11
Selenium (Se)-Dissolved			101		%		80-120	26-MAY-11
Silicon (Si)-Dissolved			104		%		80-120	26-MAY-11
Silver (Ag)-Dissolved			102		%		80-120	26-MAY-11
Sodium (Na)-Dissolved			104		%		80-120	26-MAY-11
Strontium (Sr)-Dissolved			108		%		80-120	26-MAY-11
Tellurium (Te)-Dissolved			103		%		80-120	26-MAY-11
Thallium (Tl)-Dissolved			111		%		80-120	26-MAY-11
Thorium (Th)-Dissolved			102		%		80-120	26-MAY-11
Tin (Sn)-Dissolved			104		%		80-120	26-MAY-11
Titanium (Ti)-Dissolved			100		%		80-120	26-MAY-11
Tungsten (W)-Dissolved			98		%		80-120	26-MAY-11
Uranium (U)-Dissolved			100		%		80-120	26-MAY-11
Vanadium (V)-Dissolved			103		%		80-120	26-MAY-11
Zinc (Zn)-Dissolved			100		%		80-120	26-MAY-11
Zirconium (Zr)-Dissolved			102		%		80-120	26-MAY-11
WG1284822-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.02	26-MAY-11
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Arsenic (As)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2193987							
WG1284822-1	MB							
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Boron (B)-Dissolved			<0.010		mg/L		0.03	26-MAY-11
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.0002	26-MAY-11
Calcium (Ca)-Dissolved			<0.050		mg/L		0.2	26-MAY-11
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	26-MAY-11
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Copper (Cu)-Dissolved			<0.00020		mg/L		0.002	26-MAY-11
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	26-MAY-11
Lead (Pb)-Dissolved			<0.000090		mg/L		0.001	26-MAY-11
Lithium (Li)-Dissolved			<0.0020		mg/L		0.01	26-MAY-11
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.05	26-MAY-11
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.001	26-MAY-11
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.002	26-MAY-11
Phosphorus (P)-Dissolved			<0.10		mg/L		0.5	26-MAY-11
Potassium (K)-Dissolved			<0.020		mg/L		0.1	26-MAY-11
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Selenium (Se)-Dissolved			<0.0010		mg/L		0.005	26-MAY-11
Silicon (Si)-Dissolved			<0.050		mg/L		0.3	26-MAY-11
Silver (Ag)-Dissolved			<0.00010		mg/L		0.001	26-MAY-11
Sodium (Na)-Dissolved			<0.020		mg/L		0.05	26-MAY-11
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.005	26-MAY-11
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	26-MAY-11
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0006	26-MAY-11
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Tungsten (W)-Dissolved			<0.00020		mg/L		0.002	26-MAY-11
Uranium (U)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Vanadium (V)-Dissolved			<0.00020		mg/L		0.002	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch R2193987								
WG1284822-1 MB								
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.02	26-MAY-11
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.001	26-MAY-11
MET-T-L-MS-WP		Water						
Batch R2193921								
WG1284274-4 DUP								
		WG1284274-3						
Aluminum (Al)-Total		0.0423	0.0388		mg/L	8.7	20	25-MAY-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Arsenic (As)-Total		0.00176	0.00169		mg/L	4.1	20	25-MAY-11
Barium (Ba)-Total		0.0117	0.0121		mg/L	2.8	20	25-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Boron (B)-Total		0.012	<0.010	RPD-NA	mg/L	N/A	400	25-MAY-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	25-MAY-11
Calcium (Ca)-Total		12.2	11.9		mg/L	2.8	20	25-MAY-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Copper (Cu)-Total		0.00052	0.00045		mg/L	14	400	25-MAY-11
Iron (Fe)-Total		0.16	0.14		mg/L	8.3	400	25-MAY-11
Lead (Pb)-Total		0.000099	0.000099		mg/L	0.0	400	25-MAY-11
Magnesium (Mg)-Total		5.22	4.87		mg/L	7.0	20	25-MAY-11
Manganese (Mn)-Total		0.0457	0.0444		mg/L	2.8	20	25-MAY-11
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	25-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	25-MAY-11
Potassium (K)-Total		0.913	0.859		mg/L	6.1	20	25-MAY-11
Rubidium (Rb)-Total		0.00108	0.00106		mg/L	1.8	20	25-MAY-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Silicon (Si)-Total		0.397	0.424		mg/L	6.8	20	25-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Sodium (Na)-Total		1.40	1.36		mg/L	2.3	20	25-MAY-11
Strontium (Sr)-Total		0.0283	0.0280		mg/L	0.93	20	25-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2193921							
WG1284274-4	DUP	WG1284274-3						
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	25-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Titanium (Ti)-Total		0.00038	0.00042		mg/L	10	400	25-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Zinc (Zn)-Total		0.0078	0.0072		mg/L	8.5	400	25-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	25-MAY-11
WG1284274-6	DUP	WG1284274-5						
Aluminum (Al)-Total		0.0384	0.0458		mg/L	18	20	25-MAY-11
Antimony (Sb)-Total		0.0148	0.0146		mg/L	1.1	20	25-MAY-11
Arsenic (As)-Total		0.731	0.721		mg/L	1.3	20	25-MAY-11
Barium (Ba)-Total		0.0365	0.0356		mg/L	2.5	20	25-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Boron (B)-Total		0.041	0.043		mg/L	5.5	400	25-MAY-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	25-MAY-11
Calcium (Ca)-Total		68.7	66.1		mg/L	3.8	20	25-MAY-11
Cesium (Cs)-Total		0.00026	0.00025		mg/L	2.4	400	25-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Cobalt (Co)-Total		0.00069	0.00072		mg/L	5.0	400	25-MAY-11
Copper (Cu)-Total		0.00167	0.00170		mg/L	1.7	20	25-MAY-11
Iron (Fe)-Total		0.53	0.54		mg/L	1.2	20	25-MAY-11
Lead (Pb)-Total		0.000290	0.000288		mg/L	0.69	400	25-MAY-11
Lithium (Li)-Total		0.0226	0.0232		mg/L	2.8	20	25-MAY-11
Magnesium (Mg)-Total		27.5	26.3		mg/L	4.3	20	25-MAY-11
Manganese (Mn)-Total		0.126	0.125		mg/L	0.79	20	25-MAY-11
Molybdenum (Mo)-Total		0.00089	0.00094		mg/L	6.1	400	25-MAY-11
Nickel (Ni)-Total		0.0139	0.0136		mg/L	2.3	20	25-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	25-MAY-11
Potassium (K)-Total		5.66	5.70		mg/L	0.79	20	25-MAY-11
Rubidium (Rb)-Total		0.00603	0.00625		mg/L	3.6	20	25-MAY-11
Selenium (Se)-Total		0.0036	0.0035		mg/L	1.9	400	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2193921							
WG1284274-6	DUP	WG1284274-5						
Silicon (Si)-Total		1.44	1.42		mg/L	1.9	20	25-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Sodium (Na)-Total		43.9	42.5		mg/L	3.4	20	25-MAY-11
Strontium (Sr)-Total		0.807	0.831		mg/L	3.0	20	25-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	25-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Titanium (Ti)-Total		0.00183	0.00192		mg/L	4.6	20	25-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Uranium (U)-Total		0.00032	0.00032		mg/L	0.0	400	25-MAY-11
Vanadium (V)-Total		0.00075	0.00072		mg/L	3.8	400	25-MAY-11
Zinc (Zn)-Total		0.0119	0.0118		mg/L	0.87	400	25-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	25-MAY-11
WG1284274-2	LCS							
Aluminum (Al)-Total			108		%		80-120	25-MAY-11
Antimony (Sb)-Total			102		%		80-120	25-MAY-11
Arsenic (As)-Total			102		%		80-120	25-MAY-11
Barium (Ba)-Total			101		%		80-120	25-MAY-11
Beryllium (Be)-Total			105		%		80-120	25-MAY-11
Bismuth (Bi)-Total			113		%		80-120	25-MAY-11
Boron (B)-Total			105		%		80-120	25-MAY-11
Cadmium (Cd)-Total			104		%		80-120	25-MAY-11
Calcium (Ca)-Total			103		%		80-120	25-MAY-11
Cesium (Cs)-Total			103		%		80-120	25-MAY-11
Chromium (Cr)-Total			98		%		80-120	25-MAY-11
Cobalt (Co)-Total			100		%		80-120	25-MAY-11
Copper (Cu)-Total			101		%		80-120	25-MAY-11
Iron (Fe)-Total			95		%		80-120	25-MAY-11
Lead (Pb)-Total			100		%		80-120	25-MAY-11
Lithium (Li)-Total			105		%		80-120	25-MAY-11
Magnesium (Mg)-Total			105		%		80-120	25-MAY-11
Manganese (Mn)-Total			102		%		80-120	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2193921							
WG1284274-2	LCS							
Molybdenum (Mo)-Total			105		%		80-120	25-MAY-11
Nickel (Ni)-Total			103		%		80-120	25-MAY-11
Phosphorus (P)-Total			104		%		80-120	25-MAY-11
Potassium (K)-Total			103		%		80-120	25-MAY-11
Rubidium (Rb)-Total			103		%		80-120	25-MAY-11
Selenium (Se)-Total			100		%		80-120	25-MAY-11
Silicon (Si)-Total			108		%		80-120	25-MAY-11
Silver (Ag)-Total			104		%		80-120	25-MAY-11
Sodium (Na)-Total			107		%		80-120	25-MAY-11
Strontium (Sr)-Total			106		%		80-120	25-MAY-11
Tellurium (Te)-Total			105		%		80-120	25-MAY-11
Thallium (Tl)-Total			114		%		80-120	25-MAY-11
Thorium (Th)-Total			99		%		70-130	25-MAY-11
Tin (Sn)-Total			105		%		80-120	25-MAY-11
Titanium (Ti)-Total			105		%		80-120	25-MAY-11
Tungsten (W)-Total			98		%		80-120	25-MAY-11
Uranium (U)-Total			95		%		80-120	25-MAY-11
Vanadium (V)-Total			104		%		80-120	25-MAY-11
Zinc (Zn)-Total			99		%		80-120	25-MAY-11
Zirconium (Zr)-Total			103		%		80-120	25-MAY-11
WG1284274-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.02	25-MAY-11
Antimony (Sb)-Total			<0.00020		mg/L		0.001	25-MAY-11
Arsenic (As)-Total			<0.00020		mg/L		0.001	25-MAY-11
Barium (Ba)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Beryllium (Be)-Total			<0.00020		mg/L		0.001	25-MAY-11
Bismuth (Bi)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Boron (B)-Total			<0.010		mg/L		0.03	25-MAY-11
Cadmium (Cd)-Total			<0.000010		mg/L		0.0002	25-MAY-11
Calcium (Ca)-Total			<0.10		mg/L		0.2	25-MAY-11
Cesium (Cs)-Total			<0.00010		mg/L		0.0005	25-MAY-11
Chromium (Cr)-Total			<0.0010		mg/L		0.002	25-MAY-11
Cobalt (Co)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Copper (Cu)-Total			<0.00020		mg/L		0.002	25-MAY-11



Quality Control Report

Workorder: L1007855

Report Date: 09-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2193921							
WG1284274-1	MB							
Iron (Fe)-Total			<0.10		mg/L		0.1	25-MAY-11
Lead (Pb)-Total			<0.000090		mg/L		0.001	25-MAY-11
Lithium (Li)-Total			<0.0020		mg/L		0.002	25-MAY-11
Magnesium (Mg)-Total			<0.010		mg/L		0.05	25-MAY-11
Manganese (Mn)-Total			<0.00030		mg/L		0.001	25-MAY-11
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Nickel (Ni)-Total			<0.0020		mg/L		0.002	25-MAY-11
Phosphorus (P)-Total			<0.20		mg/L		0.5	25-MAY-11
Potassium (K)-Total			<0.020		mg/L		0.1	25-MAY-11
Rubidium (Rb)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Selenium (Se)-Total			<0.0010		mg/L		0.005	25-MAY-11
Silicon (Si)-Total			<0.050		mg/L		0.3	25-MAY-11
Silver (Ag)-Total			<0.00010		mg/L		0.001	25-MAY-11
Sodium (Na)-Total			<0.030		mg/L		0.05	25-MAY-11
Strontium (Sr)-Total			<0.00010		mg/L		0.0005	25-MAY-11
Tellurium (Te)-Total			<0.00020		mg/L		0.001	25-MAY-11
Thallium (Tl)-Total			<0.00010		mg/L		0.005	25-MAY-11
Thorium (Th)-Total			<0.00010		mg/L		0.0001	25-MAY-11
Tin (Sn)-Total			<0.00020		mg/L		0.0006	25-MAY-11
Titanium (Ti)-Total			<0.00020		mg/L		0.001	25-MAY-11
Tungsten (W)-Total			<0.0010		mg/L		0.002	25-MAY-11
Uranium (U)-Total			<0.00010		mg/L		0.0005	25-MAY-11
Vanadium (V)-Total			<0.00020		mg/L		0.002	25-MAY-11
Zinc (Zn)-Total			<0.0050		mg/L		0.02	25-MAY-11
Zirconium (Zr)-Total			<0.00040		mg/L		0.001	25-MAY-11
N-TOTKJ-WP		Water						
Batch	R2196670							
WG1287942-1	CVS							
Total Kjeldahl Nitrogen			97		%		90-110	31-MAY-11
WG1284964-4	DUP	L1008007-3						
Total Kjeldahl Nitrogen		3.96	3.86		mg/L	2.6	20	31-MAY-11
WG1284964-7	DUP	L1008172-3						
Total Kjeldahl Nitrogen		1.39	1.41		mg/L	1.4	20	31-MAY-11
WG1284964-2	LCS							



Quality Control Report

Workorder: L1007855

Report Date: 09-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N-TOTKJ-WP								
	Water							
Batch	R2196670							
WG1284964-2	LCS							
Total Kjeldahl Nitrogen			92		%		75-125	31-MAY-11
WG1284964-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	31-MAY-11
WG1284964-5	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	31-MAY-11
WG1284964-3	MS	L1008007-3						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	31-MAY-11
WG1284964-6	MS	L1008172-3						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	31-MAY-11
N2N3-COL-WP								
	Water							
Batch	R2198818							
WG1290299-3	DUP	L1006708-1						
Nitrate and Nitrite as N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	04-JUN-11
WG1290299-5	DUP	L1009506-1						
Nitrate and Nitrite as N		1.65	1.65		mg/L	0.22	20	04-JUN-11
WG1290299-7	DUP	L1007954-1						
Nitrate and Nitrite as N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	04-JUN-11
WG1290299-9	DUP	L1008172-2						
Nitrate and Nitrite as N		0.159	0.159		mg/L	0.38	20	04-JUN-11
WG1290299-2	LCS							
Nitrate and Nitrite as N			100		%		85-115	04-JUN-11
WG1290299-1	MB							
Nitrate and Nitrite as N			<0.050		mg/L		0.05	04-JUN-11
WG1290299-10	MS	L1008172-2						
Nitrate and Nitrite as N			85		%		75-125	04-JUN-11
WG1290299-6	MS	L1009506-1						
Nitrate and Nitrite as N			N/A	MS-B	%		-	04-JUN-11
WG1290299-8	MS	L1007954-1						
Nitrate and Nitrite as N			97		%		75-125	04-JUN-11
NH3-COL-WP								
	Water							
Batch	R2198021							
WG1289356-3	DUP	L1008686-1						
Ammonia as N		0.157	0.156		mg/L	0.21	20	02-JUN-11
WG1289356-5	DUP	L1011050-4						
Ammonia as N		0.063	0.064		mg/L	1.2	20	02-JUN-11
WG1289356-2	LCS							
Ammonia as N			96		%		85-115	02-JUN-11



Quality Control Report

Workorder: L1007855

Report Date: 09-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-COL-WP								
	Water							
Batch	R2198021							
WG1289356-1	MB							
Ammonia as N			<0.050		mg/L		0.05	02-JUN-11
WG1289356-4	MS	L1008686-1						
Ammonia as N			90		%		75-125	02-JUN-11
WG1289356-6	MS	L1009387-1						
Ammonia as N			102		%		75-125	02-JUN-11
P-T-COL-WP								
	Water							
Batch	R2195667							
WG1285452-3	DUP	L1009007-5						
Phosphorus (P)-Total			1.12		mg/L	8.4	20	27-MAY-11
WG1285452-5	DUP	L1009446-3						
Phosphorus (P)-Total			0.018		mg/L	2.3	20	27-MAY-11
WG1285452-6	DUP	L1009452-1						
Phosphorus (P)-Total			9.17		mg/L	5.6	20	27-MAY-11
WG1285452-2	LCS							
Phosphorus (P)-Total			100		%		80-120	27-MAY-11
WG1285452-1	MB							
Phosphorus (P)-Total			<0.010		mg/L		0.01	27-MAY-11
WG1285452-10	MS	L1009469-1						
Phosphorus (P)-Total			101		%		70-130	27-MAY-11
WG1285452-7	MS	L1008283-1						
Phosphorus (P)-Total			N/A	MS-B	%		-	27-MAY-11
WG1285452-8	MS	L1009013-1						
Phosphorus (P)-Total			92		%		70-130	27-MAY-11
PH-WP								
	Water							
Batch	R2194654							
WG1285720-4	DUP	L1008444-1						
pH			7.46	J	pH units	0.01	0.2	26-MAY-11
WG1285720-5	DUP	L1008005-3						
pH			8.17	J	pH units	0.00	0.2	26-MAY-11
WG1285720-2	LCS							
pH			7.42		pH units		7.3-7.5	26-MAY-11
SIO2-L-COL-WP								
	Water							
Batch	R2196447							
WG1287600-3	DUP	L1008007-3						
Silica, Reactive (as SiO2)			10.0		mg/L	0.51	20	31-MAY-11
WG1287600-4	DUP	L1009761-1						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SIO2-L-COL-WP								
	Water							
Batch	R2196447							
WG1287600-4	DUP	L1009761-1						
Silica, Reactive (as SiO2)		3.49	3.46		mg/L	0.90	20	31-MAY-11
WG1287600-2	LCS							
Silica, Reactive (as SiO2)			102		%		85-115	31-MAY-11
WG1287600-1	MB							
Silica, Reactive (as SiO2)			<0.0050		mg/L		0.005	31-MAY-11
WG1287600-5	MS	L1007855-5						
Silica, Reactive (as SiO2)			105		%		75-125	31-MAY-11
WG1287600-6	MS	L1007954-5						
Silica, Reactive (as SiO2)			104		%		75-125	31-MAY-11
SO4-IC-ED								
	Water							
Batch	R2193628							
WG1284220-7	DUP	L1008005-7						
Sulfate (SO4)		<0.50	<0.50	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Sulfate (SO4)			99		%		85-115	25-MAY-11
WG1284220-1	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	25-MAY-11
WG1284220-8	MS	L1008005-7						
Sulfate (SO4)			110		%		75-125	26-MAY-11
SOLIDS-TDS-WP								
	Water							
Batch	R2194642							
WG1284870-2	CVS							
Total Dissolved Solids			101		%		85-115	26-MAY-11
WG1284870-3	DUP	L1008006-1						
Total Dissolved Solids		320	316		mg/L	1.3	20	26-MAY-11
WG1284870-7	DUP	L1009203-1						
Total Dissolved Solids		1310	1390		mg/L	5.9	20	26-MAY-11
WG1284870-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	26-MAY-11
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2194642							
WG1284870-2	CVS							
Total Suspended Solids			90		%		85-115	26-MAY-11
WG1284870-3	DUP	L1008006-1						
Total Suspended Solids		14.0	13.0		mg/L	7.4	400	26-MAY-11
WG1284870-5	DUP	L1008697-1						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2194642							
WG1284870-5	DUP	L1008697-1						
Total Suspended Solids		64.0	62.0		mg/L	3.2	20	26-MAY-11
WG1284870-6	DUP	L1009012-3						
Total Suspended Solids		15.0	15.0		mg/L	0.0	400	26-MAY-11
WG1284870-7	DUP	L1009203-1						
Total Suspended Solids		370	325		mg/L	13	20	26-MAY-11
WG1284870-1	MB							
Total Suspended Solids			<5.0		mg/L		5	26-MAY-11
TURBIDITY-WP								
	Water							
Batch	R2193736							
WG1284664-3	DUP	L1008347-1						
Turbidity		3.10	3.19		NTU	2.9	15	25-MAY-11
WG1284664-2	LCS							
Turbidity			99		%		85-115	25-MAY-11
WG1284664-1	MB							
Turbidity			<0.10		NTU		0.1	25-MAY-11

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L1007855

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Turbidity							
	1	20-MAY-11 11:37	25-MAY-11 17:08	48	126	hours	EHT
	2	20-MAY-11 12:09	25-MAY-11 17:08	48	125	hours	EHT
	3	20-MAY-11 12:35	25-MAY-11 17:08	48	125	hours	EHT
	4	20-MAY-11 14:30	25-MAY-11 17:08	48	123	hours	EHT
	5	20-MAY-11 15:15	25-MAY-11 17:08	48	122	hours	EHT
pH							
	1	20-MAY-11 11:37	26-MAY-11 11:00	0.25	143	hours	EHTR-FM
	2	20-MAY-11 12:09	26-MAY-11 11:00	0.25	143	hours	EHTR-FM
	3	20-MAY-11 12:35	26-MAY-11 11:00	0.25	142	hours	EHTR-FM
	4	20-MAY-11 14:30	26-MAY-11 11:00	0.25	140	hours	EHTR-FM
	5	20-MAY-11 15:15	26-MAY-11 11:15	0.25	140	hours	EHTR-FM
Anions and Nutrients							
Phosphorus, Total							
	1	20-MAY-11 11:37	26-MAY-11 09:50	48	142	hours	EHT
	2	20-MAY-11 12:09	26-MAY-11 09:50	48	142	hours	EHT
	3	20-MAY-11 12:35	26-MAY-11 09:50	48	141	hours	EHT
	4	20-MAY-11 14:30	26-MAY-11 09:50	48	139	hours	EHT
	5	20-MAY-11 15:15	26-MAY-11 09:50	48	138	hours	EHT

Legend & Qualifier Definitions:

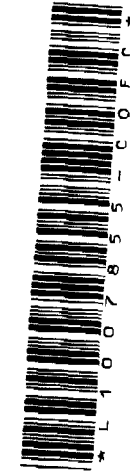
EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
 EHTR: Exceeded ALS recommended hold time prior to sample receipt.
 EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
 EHT: Exceeded ALS recommended hold time prior to analysis.
 Rec. HT: ALS recommended hold time (see units).

Notes*:
 Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
 Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1007855 were received on 21-MAY-11 10:45.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



1007855 EOC #

Report To
 Company: AECOM -W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone: _____ Fax: _____

Service Requested (Rush for routine analysis subject to availability)
 Regular (Standard Turnaround Times - Business Days)
 Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
 Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
 Same Day or Weekend Emergency - Contact ALS to Confirm TAT

Analysis Request
 Please indicate below Filtered, Preserved or both (F, P, F/P)
 Chlorophylla / Pheophytin
 Acidity, Colour, Turbidity
 Anions, Br, silica, ph.ec, Alk
 NH3, TKN, PT
 CBOD
 Solids (TSS, TDS)
 Metals & Hg - Total
 Metals & Hg - Dissolved
 TOC, DOC

Sample #	Lab Work Order # (lab use only)	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Number of Containers
1	GHL-01		20 MAY 11	11:34	water	6
2	GHL-02		20 MAY 11	12:09	water	6
3	GHL-03		20 MAY 11	13:35	water	6
4	TED-01		20 May 11	14:30	water	6
5	TRB-01		20 MAY 11	15:15	water	6

Client / Project Information
 Job #: 60212443-200
 PO / AFE:
 LSD:
 Quote #: Q24534
 ALS Contact:
 Sampler:

SHIPMENT RECEPTION (lab use only)
 Received by: BLR
 Date: 167 21, 2011
 Time: 10:45 am
 Temperature: 13 °C

SHIPMENT VERIFICATION (lab use only)
 Verified by:
 Date:
 Time:
 Observations: Yes / No? If Yes add SIF

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 provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 23-MAY-11
Report Date: 09-JUN-11 12:08 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1007954
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-200
Legal Site Desc:
C of C Numbers:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007954-1 UCI-01							
Sampled By: CLIENT on 21-MAY-11 @ 11:45							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	10.7		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	1.1		1.0	mg/L	23-MAY-11	28-MAY-11	R2195207
Chloride (Cl)	<0.50		0.50	mg/L		26-MAY-11	R2193628
Colour, True	60.1		5.0	CU		23-MAY-11	R2193912
Dissolved Organic Carbon	19.0		1.0	mg/L		03-JUN-11	R2199025
Fluoride (F)	0.068		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	161		0.20	mg/L		27-MAY-11	
Hardness (as CaCO3)	177		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.042		0.010	mg/L		27-MAY-11	R2195567
Silica, Reactive (as SiO2)	8.79	DLA	0.50	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	2.67		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	172		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	0.94		0.20	mg/L	24-MAY-11	30-MAY-11	R2196028
Total Organic Carbon	19.4		1.0	mg/L		03-JUN-11	R2199025
Total Suspended Solids	5.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	2.30		0.10	NTU		25-MAY-11	R2193736
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.122		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00181		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0220		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	<0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	0.000016		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	52.4		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	0.00058		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	0.00163		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	0.75		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	0.000151		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0030		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	11.2		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	0.480		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	0.00034		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	1.41		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.00086		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	4.27		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	1.58		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.0690		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007954-1 UCI-01							
Sampled By: CLIENT on 21-MAY-11 @ 11:45							
Matrix: WATER							
Total Metals by ICP-MS							
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00434		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	0.00033		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	0.00097		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	0.0281		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	0.00053		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0128		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00021		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00122		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0146		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	<0.010		0.010	mg/L	23-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	23-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	47.3		0.050	mg/L	23-MAY-11	26-MAY-11	R2193987
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	0.0046		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00109		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	23-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	23-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0028		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	10.4		0.010	mg/L	23-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	0.0144		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	0.00034		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	23-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	23-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	1.42		0.020	mg/L	23-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.00071		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	23-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	4.03		0.050	mg/L	23-MAY-11	26-MAY-11	R2194558
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	1.40		0.020	mg/L	23-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	0.0671		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	0.00048		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	0.00031		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	0.00026		0.00020	mg/L	23-MAY-11	26-MAY-11	R2194558
Zinc (Zn)-Dissolved	0.0097		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	23-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	1.50		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007954-1 UCI-01 Sampled By: CLIENT on 21-MAY-11 @ 11:45 Matrix: WATER Chlorophyll a, Pheophytin by fluorometry Phaeophytin a	1.78		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity Alkalinity Alkalinity, Total (as CaCO3)	149		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	181		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	<0.60		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	<0.40		0.40	mg/L		26-MAY-11	R2194654
Conductivity Conductivity	267		0.40	umhos/cm		26-MAY-11	R2194654
pH pH	8.30		0.10	pH units		26-MAY-11	R2194654
L1007954-2 THC-01 Sampled By: CLIENT on 21-MAY-11 @ 14:00 Matrix: WATER Miscellaneous Parameters Acidity (as CaCO3)	7.3		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	1.2		1.0	mg/L	23-MAY-11	28-MAY-11	R2195207
Chloride (Cl)	<0.50		0.50	mg/L		26-MAY-11	R2193628
Colour, True	90.6		5.0	CU		23-MAY-11	R2193912
Dissolved Organic Carbon	17.5		1.0	mg/L		03-JUN-11	R2199025
Fluoride (F)	<0.050		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	30.4		0.20	mg/L		26-MAY-11	
Hardness (as CaCO3)	30.9		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.022		0.010	mg/L		27-MAY-11	R2195567
Silica, Reactive (as SiO2)	0.575	DLA	0.050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	<0.50		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	30.0		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	0.84		0.20	mg/L	24-MAY-11	30-MAY-11	R2196028
Total Organic Carbon	17.8		1.0	mg/L		03-JUN-11	R2199025
Total Suspended Solids	<5.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	0.75		0.10	NTU		25-MAY-11	R2193736
Total Metals by ICP-MS Aluminum (Al)-Total	0.0359		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00188		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.00627		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	<0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	8.33		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007954-2 THC-01							
Sampled By: CLIENT on 21-MAY-11 @ 14:00							
Matrix: WATER							
Total Metals by ICP-MS							
Copper (Cu)-Total	0.00052		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	0.30		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	<0.000090		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	2.46		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	0.0273		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	0.491		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.00076		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	0.303		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	0.904		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.0153		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00064		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	0.00022		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	0.0054		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0273		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00022		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00195		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.00534		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	<0.010		0.010	mg/L	23-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	23-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	8.06		0.050	mg/L	23-MAY-11	26-MAY-11	R2193987
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00036		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	0.16		0.10	mg/L	23-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	23-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	0.0250		0.010	mg/L	23-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	0.00475		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	23-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	23-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	0.502		0.020	mg/L	23-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.00075		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	23-MAY-11	26-MAY-11	R2193987

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007954-2 THC-01							
Sampled By: CLIENT on 21-MAY-11 @ 14:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Silicon (Si)-Dissolved	0.288		0.050	mg/L	23-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	0.932		0.020	mg/L	23-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	0.0143		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	0.00031		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	0.00044		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	0.0026		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	23-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	0.53		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	2.49		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	26.7		1.0	mg/L		01-JUN-11	R2197288
Bicarbonate (HCO3)	32.5		2.0	mg/L		01-JUN-11	R2197288
Carbonate (CO3)	<0.60		0.60	mg/L		01-JUN-11	R2197288
Hydroxide (OH)	<0.40		0.40	mg/L		01-JUN-11	R2197288
Conductivity							
Conductivity	54.6		0.40	umhos/cm		26-MAY-11	R2194654
pH							
pH	7.15		0.10	pH units		26-MAY-11	R2194654
L1007954-3 DUP-01							
Sampled By: CLIENT on 21-MAY-11 @ 14:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	4.0		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	1.6		1.0	mg/L	23-MAY-11	28-MAY-11	R2195207
Chloride (Cl)	<0.50		0.50	mg/L		26-MAY-11	R2193628
Colour, True	89.1		5.0	CU		23-MAY-11	R2193912
Dissolved Organic Carbon	17.5		1.0	mg/L		03-JUN-11	R2199025
Fluoride (F)	<0.050		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	30.3		0.30	mg/L		26-MAY-11	
Hardness (as CaCO3)	29.8		0.20	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.022		0.010	mg/L		27-MAY-11	R2195567
Silica, Reactive (as SiO2)	0.582	DLA	0.050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	<0.50		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	34.0		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	0.86		0.20	mg/L	24-MAY-11	30-MAY-11	R2196028

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007954-3 DUP-01							
Sampled By: CLIENT on 21-MAY-11 @ 14:00							
Matrix: WATER							
Total Organic Carbon	17.8		1.0	mg/L		03-JUN-11	R2199025
Total Suspended Solids	<5.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	0.76		0.10	NTU		25-MAY-11	R2193736
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0409		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00195		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.00588		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	<0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	8.14		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	0.00047		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	0.31		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	0.000203		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	2.43		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	0.0279		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	0.504		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.00075		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	0.345		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	0.894		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.0148		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00073		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	0.00026		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	0.0060		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0278		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00025		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00184		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.00544		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	<0.010		0.010	mg/L	23-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	23-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	7.86		0.050	mg/L	23-MAY-11	26-MAY-11	R2193987

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007954-3 DUP-01							
Sampled By: CLIENT on 21-MAY-11 @ 14:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00031		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	0.18		0.10	mg/L	23-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	23-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	2.46		0.010	mg/L	23-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	0.00552		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	23-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	23-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	0.492		0.020	mg/L	23-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.00072		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	23-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	0.274		0.050	mg/L	23-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	0.879		0.020	mg/L	23-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	0.0138		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	0.00032		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	0.00025		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	0.0034		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	23-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	0.81		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	2.90		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	26.6		1.0	mg/L		01-JUN-11	R2197288
Bicarbonate (HCO3)	32.5		2.0	mg/L		01-JUN-11	R2197288
Carbonate (CO3)	<0.60		0.60	mg/L		01-JUN-11	R2197288
Hydroxide (OH)	<0.40		0.40	mg/L		01-JUN-11	R2197288
Conductivity							
Conductivity	54.4		0.40	umhos/cm		26-MAY-11	R2194654
pH							
pH	7.14		0.10	pH units		26-MAY-11	R2194654
L1007954-4 GHC-01							
Sampled By: CLIENT on 21-MAY-11 @ 15:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	4.2		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	1.6		1.0	mg/L	23-MAY-11	28-MAY-11	R2195207
Chloride (Cl)	1.21		0.50	mg/L		26-MAY-11	R2193628

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007954-4 GHC-01							
Sampled By: CLIENT on 21-MAY-11 @ 15:00							
Matrix: WATER							
Colour, True	49.3		5.0	CU		23-MAY-11	R2193912
Dissolved Organic Carbon	16.0		1.0	mg/L		03-JUN-11	R2199025
Fluoride (F)	<0.050		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	49.0		0.20	mg/L		26-MAY-11	
Hardness (as CaCO3)	52.3		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.030		0.010	mg/L		27-MAY-11	R2195567
Silica, Reactive (as SiO2)	0.876	DLA	0.050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	5.89		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	46.0		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	0.96		0.20	mg/L	24-MAY-11	30-MAY-11	R2196028
Total Organic Carbon	16.1		1.0	mg/L		03-JUN-11	R2199025
Total Suspended Solids	<5.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	1.53		0.10	NTU		25-MAY-11	R2193736
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0226		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00380		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0121		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	13.0		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	0.00104		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	0.46		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	0.000093		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0025		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	4.79		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	0.0664		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	0.877		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.00116		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	0.546		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	1.49		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.0263		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00051		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007954-4 GHC-01							
Sampled By: CLIENT on 21-MAY-11 @ 15:00							
Matrix: WATER							
Total Metals by ICP-MS							
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	0.00028		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	0.0081		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0112		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00024		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00294		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0113		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	0.011		0.010	mg/L	23-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	23-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	11.9		0.050	mg/L	23-MAY-11	26-MAY-11	R2193987
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00059		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	0.15		0.10	mg/L	23-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	23-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0025		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	4.67		0.010	mg/L	23-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	0.00300		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	23-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	23-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	0.872		0.020	mg/L	23-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.00120		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	23-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	0.488		0.050	mg/L	23-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	1.41		0.020	mg/L	23-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	0.0252		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	0.00053		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	0.0058		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	23-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	2.85		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	7.08		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	40.5		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	49.5		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	<0.60		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	<0.40		0.40	mg/L		26-MAY-11	R2194654

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007954-4 GHC-01 Sampled By: CLIENT on 21-MAY-11 @ 15:00 Matrix: WATER							
Conductivity Conductivity	98.7		0.40	umhos/cm		26-MAY-11	R2194654
pH pH	7.82		0.10	pH units		26-MAY-11	R2194654
L1007954-5 TRB-02 Sampled By: CLIENT on 21-MAY-11 @ 15:00 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	1.1		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	<1.0		1.0	mg/L	23-MAY-11	28-MAY-11	R2195207
Chloride (Cl)	<0.50		0.50	mg/L		26-MAY-11	R2193628
Colour, True	<5.0		5.0	CU		23-MAY-11	R2193912
Dissolved Organic Carbon	<1.0		1.0	mg/L		03-JUN-11	R2199025
Fluoride (F)	<0.050		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	<0.20		0.20	mg/L		26-MAY-11	
Hardness (as CaCO3)	<0.30		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	<0.010		0.010	mg/L		27-MAY-11	R2195567
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	<0.50		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	<5.0		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	24-MAY-11	30-MAY-11	R2196028
Total Organic Carbon	<1.0		1.0	mg/L		03-JUN-11	R2199025
Total Suspended Solids	<5.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	0.10		0.10	NTU		25-MAY-11	R2193736
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	<0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	<0.10		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	<0.10		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	<0.000090		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	<0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007954-5 TRB-02							
Sampled By: CLIENT on 21-MAY-11 @ 15:00							
Matrix: WATER							
Total Metals by ICP-MS							
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	<0.020		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	<0.050		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	<0.030		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00038		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	<0.010		0.010	mg/L	23-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	<0.050		0.050	mg/L	23-MAY-11	26-MAY-11	R2193987
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	23-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	23-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	23-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	23-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	23-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	<0.020		0.020	mg/L	23-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	23-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	23-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	23-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1007954-5 TRB-02							
Sampled By: CLIENT on 21-MAY-11 @ 15:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	23-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	23-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	23-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	23-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	<0.20	DLB	0.20	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	1.9		1.0	mg/L		01-JUN-11	R2197288
Bicarbonate (HCO3)	2.3		2.0	mg/L		01-JUN-11	R2197288
Carbonate (CO3)	<0.60		0.60	mg/L		01-JUN-11	R2197288
Hydroxide (OH)	<0.40		0.40	mg/L		01-JUN-11	R2197288
Conductivity							
Conductivity	0.76		0.40	umhos/cm		04-JUN-11	R2200138
pH							
pH	5.81		0.10	pH units		04-JUN-11	R2199091

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution
DLB	Detection limit was raised due to detection of analyte at comparable level in Method Blank.
DLM	Detection Limit Adjusted For Sample Matrix Effects
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B
Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically.			
BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.			
BR-IC-ED	Water	Bromide by IC	APHA 4110 B-ION CHROMATOGRAPHY
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
CHL,PHEO-FLUORO-WP	Water	Chlorophyll a, Pheophytin by fluorometry	EPA 445.0
Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification.			
CL-IC-ED	Water	Chloride by IC	APHA 4110 B-ION CHROMATOGRAPHY
COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR
This analysis is carried out using procedures adapted from APHA 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. 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-WP	Water	Conductivity	APHA 2510B
Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	HARDNESS CALCULATED
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
F-IC-ED	Water	Fluoride by IC	APHA 4110 B-ION CHROMATOGRAPHY
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
		Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
		Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
		Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.	
N2N3-COL-WP	Water	Nitrate + Nitrite	APHA4500;2005/LACHAT;1997,1999
		The sample is passed through a column containing cadmium granules coated with copper sulphate, reducing nitrate to nitrite. The resulting nitrites plus those originally present in the sample are reacted with sulfanilamide (an organic amine) to form the diazonium salt which is coupled in an acidic solution with N-(1-naphthyl)-ethylenediamine dihydrochloride, to form azo dye. The azo dye intensity is measured by a colorimeter at 520 nm. The Omnion software compares the sample peak areas to a calibration curve and reports the concentration of nitrate-nitrite in the sample as nitrogen.	
		Reference: APHA, AWWA, WPCF, Standard Methods for the Examination of Water and Wastewaters, 20th Edition, Washington, 1998. Method 4500-NO3-I	
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
		Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.	
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
		This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourmetrically after persulphate digestion of the sample.	
PH-WP	Water	pH	APHA 4500H
		The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.	
SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2
		This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.	
SO4-IC-ED	Water	Sulfate by IC	APHA 4110 B-ION CHROMATOGRAPHY
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540C
		The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.	
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540D

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.			
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B
A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
ED	ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R2200530							
WG1292189-2	CVS							
Acidity (as CaCO3)			104		%		85-115	03-JUN-11
WG1292189-3	DUP	L1007855-2						
Acidity (as CaCO3)		1.6	1.6		mg/L	0.32	400	03-JUN-11
WG1292189-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	03-JUN-11
ALK-TOT-WP								
	Water							
Batch	R2194654							
WG1285720-4	DUP	L1008444-1						
Alkalinity, Total (as CaCO3)		37.9	37.8		mg/L	0.21	20	26-MAY-11
Bicarbonate (HCO3)		46.2	46.1		mg/L	0.21	25	26-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	26-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	26-MAY-11
WG1285720-5	DUP	L1008005-3						
Alkalinity, Total (as CaCO3)		70.0	70.0		mg/L	0.087	20	26-MAY-11
Bicarbonate (HCO3)		85.4	85.3		mg/L	0.087	25	26-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	26-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	26-MAY-11
Batch	R2197288							
WG1288720-3	CVS							
Alkalinity, Total (as CaCO3)			102		%		85-115	01-JUN-11
WG1288720-8	DUP	L1010853-4						
Alkalinity, Total (as CaCO3)		381	381		mg/L	0.053	20	01-JUN-11
Bicarbonate (HCO3)		464	465		mg/L	0.053	25	01-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	01-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	01-JUN-11
BOD-CBOD-WP								
	Water							
Batch	R2195207							
WG1283409-3	DUP	L1007955-1						
BOD Carbonaceous		1180	1190		mg/L	1.3	20	28-MAY-11
WG1283409-2	IRM	61-GG						
BOD Carbonaceous			98		%		85-115	28-MAY-11
WG1283409-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	28-MAY-11
BR-IC-ED								
	Water							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BR-IC-ED		Water						
Batch	R2193628							
WG1284220-3	DUP	L1007494-186						
Bromide (Br)		1.2	1.2		mg/L	1.7	20	25-MAY-11
WG1284220-5	DUP	L1007494-401						
Bromide (Br)		1.4	1.4		mg/L	2.0	20	25-MAY-11
WG1284220-7	DUP	L1008005-7						
Bromide (Br)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Bromide (Br)			109		%		85-115	25-MAY-11
WG1284220-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	25-MAY-11
WG1284220-4	MS	L1007494-186						
Bromide (Br)			92		%		75-125	25-MAY-11
WG1284220-6	MS	L1007494-401						
Bromide (Br)			N/A	MS-B	%		-	25-MAY-11
WG1284220-8	MS	L1008005-7						
Bromide (Br)			104		%		75-125	26-MAY-11
C-DIS-ORG-WP		Water						
Batch	R2199025							
WG1290529-2	CVS							
Dissolved Organic Carbon			103		%		80-120	03-JUN-11
C-TOT-ORG-WP		Water						
Batch	R2199025							
WG1290529-2	CVS							
Total Organic Carbon			101		%		80-120	03-JUN-11
WG1290529-3	DUP	L1008172-1						
Total Organic Carbon		17.7	17.1		mg/L	3.3	20	03-JUN-11
WG1290529-1	MB							
Total Organic Carbon			<1.0		mg/L		1	03-JUN-11
CHL,PHEO-FLUORO-WP		Water						
Batch	R2193661							
WG1284255-1	CVS							
Chlorophyll a			80		%		65-135	25-MAY-11
WG1284255-2	CVS							
Chlorophyll a			101		%		65-135	25-MAY-11
WG1284251-2	DUP	L1007855-1						
Chlorophyll a		2.81	3.71		ug/L	28	35	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CHL,PHEO-FLUORO-WP								
	Water							
Batch	R2193661							
WG1284251-2	DUP	L1007855-1						
Phaeophytin a		2.68	3.22		ug/L	18	35	25-MAY-11
WG1284251-3	DUP	L1008005-2						
Chlorophyll a		3.19	3.24		ug/L	1.6	35	25-MAY-11
Phaeophytin a		3.30	3.20		ug/L	3.1	35	25-MAY-11
CL-IC-ED								
	Water							
Batch	R2193628							
WG1284220-7	DUP	L1008005-7						
Chloride (Cl)		<0.50	<0.50	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Chloride (Cl)			98		%		85-115	25-MAY-11
WG1284220-1	MB							
Chloride (Cl)			<0.50		mg/L		0.5	25-MAY-11
WG1284220-8	MS	L1008005-7						
Chloride (Cl)			108		%		75-125	26-MAY-11
COLOUR-TRUE-WP								
	Water							
Batch	R2193912							
WG1283679-3	DUP	L1007018-1						
Colour, True		<5.0	<5.0	RPD-NA	CU	N/A	400	23-MAY-11
WG1283679-4	DUP	L1007855-4						
Colour, True		78.4	82.4		CU	5.0	20	23-MAY-11
WG1283679-2	LCS							
Colour, True			100		%		85-115	23-MAY-11
WG1283679-1	MB							
Colour, True			<5.0		CU		5	23-MAY-11
EC-WP								
	Water							
Batch	R2194654							
WG1285720-1	CVS							
Conductivity			97		%		90-110	26-MAY-11
WG1285720-5	DUP	L1008005-3						
Conductivity		159	158		umhos/cm	0.69	10	26-MAY-11
Batch	R2200138							
WG1291743-1	CVS							
Conductivity			100		%		90-110	04-JUN-11
WG1291743-2	DUP	L1007954-5						
Conductivity		0.76	0.76		umhos/cm	0.0	400	04-JUN-11
F-IC-ED								
	Water							



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-ED		Water						
Batch	R2193628							
WG1284220-3	DUP	L1007494-186						
Fluoride (F)		4.13	4.05		mg/L	2.1	20	25-MAY-11
WG1284220-5	DUP	L1007494-401						
Fluoride (F)		1.99	1.98		mg/L	0.45	20	25-MAY-11
WG1284220-7	DUP	L1008005-7						
Fluoride (F)		<0.050	<0.050	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Fluoride (F)			106		%		85-115	25-MAY-11
WG1284220-1	MB							
Fluoride (F)			<0.050		mg/L		0.05	25-MAY-11
WG1284220-4	MS	L1007494-186						
Fluoride (F)			N/A	MS-B	%		-	25-MAY-11
WG1284220-6	MS	L1007494-401						
Fluoride (F)			N/A	MS-B	%		-	25-MAY-11
WG1284220-8	MS	L1008005-7						
Fluoride (F)			120		%		75-125	26-MAY-11
HG-D-CVAF-WP		Water						
Batch	R2194712							
WG1285755-3	DUP	L1007855-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1285755-5	DUP	L1008007-5						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1285755-2	LCS							
Mercury (Hg)-Dissolved			98		%		80-120	26-MAY-11
Mercury (Hg)-Dissolved			98		%		80-120	26-MAY-11
WG1285754-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
WG1285755-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
WG1285755-4	MS	L1007855-1						
Mercury (Hg)-Dissolved			110		%		70-130	26-MAY-11
Mercury (Hg)-Dissolved			110		%		70-130	26-MAY-11
WG1285755-6	MS	L1008007-5						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAF-WP								
	Water							
Batch	R2194712							
WG1285755-6 MS		L1008007-5						
Mercury (Hg)-Dissolved			93		%		70-130	26-MAY-11
Mercury (Hg)-Dissolved			93		%		70-130	26-MAY-11
HG-T-CVAF-WP								
	Water							
Batch	R2194078							
WG1285021-3 DUP		L1007210-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
WG1285021-5 DUP		L1008005-5						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
WG1285021-2 LCS								
Mercury (Hg)-Total			88		%		80-120	25-MAY-11
Mercury (Hg)-Total			88		%		80-120	25-MAY-11
WG1285021-1 MB								
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	25-MAY-11
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	25-MAY-11
WG1285021-4 MS		L1006894-1						
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
WG1285021-6 MS		L1008005-5						
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
MET-D-L-MS-WP								
	Water							
Batch	R2193987							
WG1284822-4 DUP		WG1284822-3						
Aluminum (Al)-Dissolved		0.0298	0.0288		mg/L	3.3	20	26-MAY-11
Antimony (Sb)-Dissolved		0.00364	0.00361		mg/L	0.86	20	26-MAY-11
Arsenic (As)-Dissolved		0.00377	0.00368		mg/L	2.6	20	26-MAY-11
Barium (Ba)-Dissolved		0.0252	0.0256		mg/L	1.6	20	26-MAY-11
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Boron (B)-Dissolved		0.026	0.028		mg/L	6.0	400	26-MAY-11
Cadmium (Cd)-Dissolved		0.00326	0.00329		mg/L	0.92	20	26-MAY-11
Calcium (Ca)-Dissolved		167	168		mg/L	0.60	20	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2193987							
WG1284822-4	DUP	WG1284822-3						
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Chromium (Cr)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	26-MAY-11
Cobalt (Co)-Dissolved		0.00105	0.00102		mg/L	2.8	20	26-MAY-11
Copper (Cu)-Dissolved		0.0293	0.0293		mg/L	0.16	20	26-MAY-11
Iron (Fe)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	26-MAY-11
Lead (Pb)-Dissolved		0.000357	0.000355		mg/L	0.56	400	26-MAY-11
Lithium (Li)-Dissolved		0.0072	0.0080		mg/L	10	400	26-MAY-11
Magnesium (Mg)-Dissolved		8.79	8.62		mg/L	2.0	20	26-MAY-11
Manganese (Mn)-Dissolved		0.0681	0.0682		mg/L	0.11	20	26-MAY-11
Molybdenum (Mo)-Dissolved		0.00365	0.00364		mg/L	0.30	20	26-MAY-11
Nickel (Ni)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	26-MAY-11
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	26-MAY-11
Potassium (K)-Dissolved		5.88	5.81		mg/L	1.2	20	26-MAY-11
Rubidium (Rb)-Dissolved		0.00645	0.00637		mg/L	1.2	20	26-MAY-11
Selenium (Se)-Dissolved		0.0149	0.0143		mg/L	4.0	20	26-MAY-11
Silicon (Si)-Dissolved		1.17	1.20		mg/L	2.5	20	26-MAY-11
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Sodium (Na)-Dissolved		254	258		mg/L	1.6	20	26-MAY-11
Strontium (Sr)-Dissolved		1.03	1.02		mg/L	1.1	20	26-MAY-11
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	26-MAY-11
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Titanium (Ti)-Dissolved		0.00139	0.00128		mg/L	8.3	20	26-MAY-11
Tungsten (W)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Vanadium (V)-Dissolved		0.00047	0.00049		mg/L	3.7	400	26-MAY-11
Zinc (Zn)-Dissolved		0.423	0.425		mg/L	0.41	20	26-MAY-11
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	26-MAY-11
WG1284822-2	LCS							
Aluminum (Al)-Dissolved			109		%		80-120	26-MAY-11
Antimony (Sb)-Dissolved			103		%		80-120	26-MAY-11
Arsenic (As)-Dissolved			100		%		80-120	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2193987							
WG1284822-2	LCS							
Barium (Ba)-Dissolved			102		%		80-120	26-MAY-11
Beryllium (Be)-Dissolved			103		%		80-120	26-MAY-11
Bismuth (Bi)-Dissolved			109		%		80-120	26-MAY-11
Boron (B)-Dissolved			104		%		80-120	26-MAY-11
Cadmium (Cd)-Dissolved			106		%		80-120	26-MAY-11
Calcium (Ca)-Dissolved			101		%		80-120	26-MAY-11
Cesium (Cs)-Dissolved			100		%		80-120	26-MAY-11
Chromium (Cr)-Dissolved			103		%		80-120	26-MAY-11
Cobalt (Co)-Dissolved			100		%		80-120	26-MAY-11
Copper (Cu)-Dissolved			99		%		80-120	26-MAY-11
Iron (Fe)-Dissolved			99		%		80-120	26-MAY-11
Lead (Pb)-Dissolved			101		%		80-120	26-MAY-11
Lithium (Li)-Dissolved			103		%		80-120	26-MAY-11
Magnesium (Mg)-Dissolved			104		%		80-120	26-MAY-11
Manganese (Mn)-Dissolved			101		%		80-120	26-MAY-11
Molybdenum (Mo)-Dissolved			106		%		80-120	26-MAY-11
Nickel (Ni)-Dissolved			99		%		80-120	26-MAY-11
Phosphorus (P)-Dissolved			103		%		80-120	26-MAY-11
Potassium (K)-Dissolved			103		%		80-120	26-MAY-11
Rubidium (Rb)-Dissolved			107		%		80-120	26-MAY-11
Selenium (Se)-Dissolved			101		%		80-120	26-MAY-11
Silicon (Si)-Dissolved			104		%		80-120	26-MAY-11
Silver (Ag)-Dissolved			102		%		80-120	26-MAY-11
Sodium (Na)-Dissolved			104		%		80-120	26-MAY-11
Strontium (Sr)-Dissolved			108		%		80-120	26-MAY-11
Tellurium (Te)-Dissolved			103		%		80-120	26-MAY-11
Thallium (Tl)-Dissolved			111		%		80-120	26-MAY-11
Thorium (Th)-Dissolved			102		%		80-120	26-MAY-11
Tin (Sn)-Dissolved			104		%		80-120	26-MAY-11
Titanium (Ti)-Dissolved			100		%		80-120	26-MAY-11
Tungsten (W)-Dissolved			98		%		80-120	26-MAY-11
Uranium (U)-Dissolved			100		%		80-120	26-MAY-11
Vanadium (V)-Dissolved			103		%		80-120	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2193987							
WG1284822-2	LCS							
Zinc (Zn)-Dissolved			100		%		80-120	26-MAY-11
Zirconium (Zr)-Dissolved			102		%		80-120	26-MAY-11
WG1284822-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.02	26-MAY-11
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Arsenic (As)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Boron (B)-Dissolved			<0.010		mg/L		0.03	26-MAY-11
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.0002	26-MAY-11
Calcium (Ca)-Dissolved			<0.050		mg/L		0.2	26-MAY-11
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	26-MAY-11
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Copper (Cu)-Dissolved			<0.00020		mg/L		0.002	26-MAY-11
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	26-MAY-11
Lead (Pb)-Dissolved			<0.000090		mg/L		0.001	26-MAY-11
Lithium (Li)-Dissolved			<0.0020		mg/L		0.01	26-MAY-11
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.05	26-MAY-11
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.001	26-MAY-11
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.002	26-MAY-11
Phosphorus (P)-Dissolved			<0.10		mg/L		0.5	26-MAY-11
Potassium (K)-Dissolved			<0.020		mg/L		0.1	26-MAY-11
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Selenium (Se)-Dissolved			<0.0010		mg/L		0.005	26-MAY-11
Silicon (Si)-Dissolved			<0.050		mg/L		0.3	26-MAY-11
Silver (Ag)-Dissolved			<0.00010		mg/L		0.001	26-MAY-11
Sodium (Na)-Dissolved			<0.020		mg/L		0.05	26-MAY-11
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.005	26-MAY-11
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch R2193987								
WG1284822-1 MB								
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0006	26-MAY-11
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Tungsten (W)-Dissolved			<0.00020		mg/L		0.002	26-MAY-11
Uranium (U)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Vanadium (V)-Dissolved			<0.00020		mg/L		0.002	26-MAY-11
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.02	26-MAY-11
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.001	26-MAY-11
MET-T-L-MS-WP		Water						
Batch R2193921								
WG1284263-4 DUP								
		WG1284263-3						
Aluminum (Al)-Total		0.0592	0.0669		mg/L	12	20	25-MAY-11
Antimony (Sb)-Total		0.00327	0.00326		mg/L	0.52	20	25-MAY-11
Arsenic (As)-Total		0.00502	0.00502		mg/L	0.0	20	25-MAY-11
Barium (Ba)-Total		0.0261	0.0254		mg/L	2.9	20	25-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Boron (B)-Total		0.026	0.024		mg/L	7.7	400	25-MAY-11
Cadmium (Cd)-Total		0.00342	0.00334		mg/L	2.4	20	25-MAY-11
Calcium (Ca)-Total		158	157		mg/L	0.69	20	25-MAY-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Cobalt (Co)-Total		0.00112	0.00114		mg/L	1.2	20	25-MAY-11
Copper (Cu)-Total		0.0441	0.0443		mg/L	0.57	20	25-MAY-11
Iron (Fe)-Total		0.30	0.31		mg/L	5.4	400	25-MAY-11
Lead (Pb)-Total		0.00154	0.00167		mg/L	7.8	20	25-MAY-11
Lithium (Li)-Total		0.0070	0.0065		mg/L	8.4	400	25-MAY-11
Magnesium (Mg)-Total		8.45	7.92		mg/L	6.4	20	25-MAY-11
Manganese (Mn)-Total		0.0766	0.0741		mg/L	3.3	20	25-MAY-11
Molybdenum (Mo)-Total		0.00365	0.00365		mg/L	0.0	20	25-MAY-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	25-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	25-MAY-11
Potassium (K)-Total		5.67	5.55		mg/L	2.2	20	25-MAY-11
Rubidium (Rb)-Total		0.00616	0.00601		mg/L	2.4	20	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2193921							
WG1284263-4	DUP	WG1284263-3						
Selenium (Se)-Total		0.0159	0.0157		mg/L	1.7	20	25-MAY-11
Silicon (Si)-Total		1.55	1.33		mg/L	15	20	25-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Sodium (Na)-Total		31.2	30.8		mg/L	1.4	20	25-MAY-11
Strontium (Sr)-Total		0.993	0.981		mg/L	1.3	20	25-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	25-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Vanadium (V)-Total		0.00024	0.00028		mg/L	15	400	25-MAY-11
Zinc (Zn)-Total		0.427	0.420		mg/L	1.5	20	25-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	25-MAY-11
WG1284263-6	DUP	WG1284263-5						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	25-MAY-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Arsenic (As)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Barium (Ba)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	25-MAY-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	25-MAY-11
Calcium (Ca)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	25-MAY-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Copper (Cu)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Iron (Fe)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	25-MAY-11
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	400	25-MAY-11
Lithium (Li)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	25-MAY-11
Magnesium (Mg)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	25-MAY-11
Manganese (Mn)-Total		<0.00030	<0.00030	RPD-NA	mg/L	N/A	400	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2193921							
WG1284263-6	DUP	WG1284263-5						
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	25-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	25-MAY-11
Potassium (K)-Total		<0.020	<0.020	RPD-NA	mg/L	N/A	400	25-MAY-11
Rubidium (Rb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Silicon (Si)-Total		<0.050	<0.050	RPD-NA	mg/L	N/A	400	25-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Sodium (Na)-Total		<0.030	<0.030	RPD-NA	mg/L	N/A	400	25-MAY-11
Strontium (Sr)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	25-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Titanium (Ti)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	25-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	25-MAY-11
WG1284263-2	LCS							
Aluminum (Al)-Total			106		%		80-120	25-MAY-11
Antimony (Sb)-Total			106		%		80-120	25-MAY-11
Arsenic (As)-Total			101		%		80-120	25-MAY-11
Barium (Ba)-Total			104		%		80-120	25-MAY-11
Beryllium (Be)-Total			105		%		80-120	25-MAY-11
Bismuth (Bi)-Total			110		%		80-120	25-MAY-11
Boron (B)-Total			106		%		80-120	25-MAY-11
Cadmium (Cd)-Total			102		%		80-120	25-MAY-11
Calcium (Ca)-Total			102		%		80-120	25-MAY-11
Cesium (Cs)-Total			99		%		80-120	25-MAY-11
Chromium (Cr)-Total			102		%		80-120	25-MAY-11
Cobalt (Co)-Total			103		%		80-120	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2193921							
WG1284263-2	LCS							
Copper (Cu)-Total			98		%		80-120	25-MAY-11
Iron (Fe)-Total			104		%		80-120	25-MAY-11
Lead (Pb)-Total			105		%		80-120	25-MAY-11
Lithium (Li)-Total			104		%		80-120	25-MAY-11
Magnesium (Mg)-Total			102		%		80-120	25-MAY-11
Manganese (Mn)-Total			102		%		80-120	25-MAY-11
Molybdenum (Mo)-Total			104		%		80-120	25-MAY-11
Nickel (Ni)-Total			101		%		80-120	25-MAY-11
Phosphorus (P)-Total			104		%		80-120	25-MAY-11
Potassium (K)-Total			106		%		80-120	25-MAY-11
Rubidium (Rb)-Total			99		%		80-120	25-MAY-11
Selenium (Se)-Total			99		%		80-120	25-MAY-11
Silicon (Si)-Total			109		%		80-120	25-MAY-11
Silver (Ag)-Total			99		%		80-120	25-MAY-11
Sodium (Na)-Total			103		%		80-120	25-MAY-11
Strontium (Sr)-Total			105		%		80-120	25-MAY-11
Tellurium (Te)-Total			105		%		80-120	25-MAY-11
Thallium (Tl)-Total			109		%		80-120	25-MAY-11
Thorium (Th)-Total			101		%		70-130	25-MAY-11
Tin (Sn)-Total			103		%		80-120	25-MAY-11
Titanium (Ti)-Total			106		%		80-120	25-MAY-11
Tungsten (W)-Total			102		%		80-120	25-MAY-11
Uranium (U)-Total			99		%		80-120	25-MAY-11
Vanadium (V)-Total			105		%		80-120	25-MAY-11
Zinc (Zn)-Total			102		%		80-120	25-MAY-11
Zirconium (Zr)-Total			100		%		80-120	25-MAY-11
WG1284263-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.02	25-MAY-11
Antimony (Sb)-Total			<0.00020		mg/L		0.001	25-MAY-11
Arsenic (As)-Total			<0.00020		mg/L		0.001	25-MAY-11
Barium (Ba)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Beryllium (Be)-Total			<0.00020		mg/L		0.001	25-MAY-11
Bismuth (Bi)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Boron (B)-Total			<0.010		mg/L		0.03	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2193921							
WG1284263-1 MB								
Cadmium (Cd)-Total			<0.000010		mg/L		0.0002	25-MAY-11
Calcium (Ca)-Total			<0.10		mg/L		0.2	25-MAY-11
Cesium (Cs)-Total			<0.00010		mg/L		0.0005	25-MAY-11
Chromium (Cr)-Total			<0.0010		mg/L		0.002	25-MAY-11
Cobalt (Co)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Copper (Cu)-Total			<0.00020		mg/L		0.002	25-MAY-11
Iron (Fe)-Total			<0.10		mg/L		0.1	25-MAY-11
Lead (Pb)-Total			<0.000090		mg/L		0.001	25-MAY-11
Lithium (Li)-Total			<0.0020		mg/L		0.002	25-MAY-11
Magnesium (Mg)-Total			<0.010		mg/L		0.05	25-MAY-11
Manganese (Mn)-Total			<0.00030		mg/L		0.001	25-MAY-11
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Nickel (Ni)-Total			<0.0020		mg/L		0.002	25-MAY-11
Phosphorus (P)-Total			<0.20		mg/L		0.5	25-MAY-11
Potassium (K)-Total			<0.020		mg/L		0.1	25-MAY-11
Rubidium (Rb)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Selenium (Se)-Total			<0.0010		mg/L		0.005	25-MAY-11
Silicon (Si)-Total			<0.050		mg/L		0.3	25-MAY-11
Silver (Ag)-Total			<0.00010		mg/L		0.001	25-MAY-11
Sodium (Na)-Total			<0.030		mg/L		0.05	25-MAY-11
Strontium (Sr)-Total			<0.00010		mg/L		0.0005	25-MAY-11
Tellurium (Te)-Total			<0.00020		mg/L		0.001	25-MAY-11
Thallium (Tl)-Total			<0.00010		mg/L		0.005	25-MAY-11
Thorium (Th)-Total			<0.00010		mg/L		0.0001	25-MAY-11
Tin (Sn)-Total			<0.00020		mg/L		0.0006	25-MAY-11
Titanium (Ti)-Total			<0.00020		mg/L		0.001	25-MAY-11
Tungsten (W)-Total			<0.0010		mg/L		0.002	25-MAY-11
Uranium (U)-Total			<0.00010		mg/L		0.0005	25-MAY-11
Vanadium (V)-Total			<0.00020		mg/L		0.002	25-MAY-11
Zinc (Zn)-Total			<0.0050		mg/L		0.02	25-MAY-11
Zirconium (Zr)-Total			<0.00040		mg/L		0.001	25-MAY-11

N-TOTKJ-WP **Water**



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N-TOTKJ-WP		Water						
Batch	R2196028							
WG1287257-1	CVS							
Total Kjeldahl Nitrogen			96		%		90-110	30-MAY-11
WG1284271-4	DUP	L1007954-1						
Total Kjeldahl Nitrogen		0.94	0.91		mg/L	3.6	20	30-MAY-11
WG1284271-7	DUP	L1008004-1						
Total Kjeldahl Nitrogen		0.52	0.51		mg/L	1.9	20	30-MAY-11
WG1284271-2	LCS							
Total Kjeldahl Nitrogen			96		%		75-125	30-MAY-11
WG1284271-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	30-MAY-11
WG1284271-5	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	30-MAY-11
WG1284271-3	MS	L1007954-1						
Total Kjeldahl Nitrogen			91		%		70-130	30-MAY-11
WG1284271-6	MS	L1008004-1						
Total Kjeldahl Nitrogen			95		%		70-130	30-MAY-11
N2N3-COL-WP		Water						
Batch	R2198818							
WG1290299-3	DUP	L1006708-1						
Nitrate and Nitrite as N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	04-JUN-11
WG1290299-5	DUP	L1009506-1						
Nitrate and Nitrite as N		1.65	1.65		mg/L	0.22	20	04-JUN-11
WG1290299-7	DUP	L1007954-1						
Nitrate and Nitrite as N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	04-JUN-11
WG1290299-9	DUP	L1008172-2						
Nitrate and Nitrite as N		0.159	0.159		mg/L	0.38	20	04-JUN-11
WG1290299-2	LCS							
Nitrate and Nitrite as N			100		%		85-115	04-JUN-11
WG1290299-1	MB							
Nitrate and Nitrite as N			<0.050		mg/L		0.05	04-JUN-11
WG1290299-10	MS	L1008172-2						
Nitrate and Nitrite as N			85		%		75-125	04-JUN-11
WG1290299-6	MS	L1009506-1						
Nitrate and Nitrite as N			N/A	MS-B	%		-	04-JUN-11
WG1290299-8	MS	L1007954-1						
Nitrate and Nitrite as N			97		%		75-125	04-JUN-11
NH3-COL-WP		Water						



Quality Control Report

Workorder: L1007954

Report Date: 09-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-COL-WP		Water						
Batch	R2198021							
WG1289356-3	DUP	L1008686-1						
Ammonia as N		0.157	0.156		mg/L	0.21	20	02-JUN-11
WG1289356-5	DUP	L1011050-4						
Ammonia as N		0.063	0.064		mg/L	1.2	20	02-JUN-11
WG1289356-2	LCS							
Ammonia as N			96		%		85-115	02-JUN-11
WG1289356-1	MB							
Ammonia as N			<0.050		mg/L		0.05	02-JUN-11
WG1289356-4	MS	L1008686-1						
Ammonia as N			90		%		75-125	02-JUN-11
WG1289356-6	MS	L1009387-1						
Ammonia as N			102		%		75-125	02-JUN-11
P-T-COL-WP		Water						
Batch	R2195567							
WG1284675-3	DUP	L1008436-1						
Phosphorus (P)-Total		7.40	6.34		mg/L	15	20	27-MAY-11
WG1284675-4	DUP	L1008474-2						
Phosphorus (P)-Total		1.94	1.87		mg/L	3.7	20	27-MAY-11
WG1284675-5	DUP	L1008690-1						
Phosphorus (P)-Total		8.67	9.35		mg/L	7.5	20	27-MAY-11
WG1284675-2	LCS							
Phosphorus (P)-Total			92		%		80-120	27-MAY-11
WG1284675-1	MB							
Phosphorus (P)-Total			<0.010		mg/L		0.01	27-MAY-11
WG1284675-6	MS	L1008682-1						
Phosphorus (P)-Total			96		%		70-130	27-MAY-11
WG1284675-7	MS	L1008689-1						
Phosphorus (P)-Total			97		%		70-130	27-MAY-11
WG1284675-8	MS	L1008766-1						
Phosphorus (P)-Total			98		%		70-130	27-MAY-11
PH-WP		Water						
Batch	R2194654							
WG1285720-4	DUP	L1008444-1						
pH		7.46	7.47	J	pH units	0.01	0.2	26-MAY-11
WG1285720-5	DUP	L1008005-3						
pH		8.17	8.16	J	pH units	0.00	0.2	26-MAY-11
WG1285720-2	LCS							
pH			7.42		pH units		7.3-7.5	26-MAY-11



Quality Control Report

Workorder: L1007954

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WP								
Water								
Batch	R2199091							
WG1290609-5	DUP	L1010401-1						
pH		7.07	7.11	J	pH units	0.04	0.2	04-JUN-11
WG1290609-2	LCS		7.43		pH units		7.3-7.5	04-JUN-11
SIO2-L-COL-WP								
Water								
Batch	R2196447							
WG1287600-3	DUP	L1008007-3						
Silica, Reactive (as SiO2)		10.0	9.97		mg/L	0.51	20	31-MAY-11
WG1287600-4	DUP	L1009761-1						
Silica, Reactive (as SiO2)		3.49	3.46		mg/L	0.90	20	31-MAY-11
WG1287600-2	LCS		102		%		85-115	31-MAY-11
Silica, Reactive (as SiO2)								
WG1287600-1	MB		<0.0050		mg/L		0.005	31-MAY-11
Silica, Reactive (as SiO2)								
WG1287600-5	MS	L1007855-5						
Silica, Reactive (as SiO2)			105		%		75-125	31-MAY-11
WG1287600-6	MS	L1007954-5						
Silica, Reactive (as SiO2)			104		%		75-125	31-MAY-11
SO4-IC-ED								
Water								
Batch	R2193628							
WG1284220-7	DUP	L1008005-7						
Sulfate (SO4)		<0.50	<0.50	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS		99		%		85-115	25-MAY-11
Sulfate (SO4)								
WG1284220-1	MB		<0.50		mg/L		0.5	25-MAY-11
Sulfate (SO4)								
WG1284220-8	MS	L1008005-7						
Sulfate (SO4)			110		%		75-125	26-MAY-11
SOLIDS-TDS-WP								
Water								
Batch	R2194642							
WG1284870-2	CVS							
Total Dissolved Solids			101		%		85-115	26-MAY-11
WG1284870-3	DUP	L1008006-1						
Total Dissolved Solids		320	316		mg/L	1.3	20	26-MAY-11
WG1284870-7	DUP	L1009203-1						
Total Dissolved Solids		1310	1390		mg/L	5.9	20	26-MAY-11
WG1284870-1	MB							



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Report Date: 09-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TDS-WP		Water						
Batch	R2194642							
WG1284870-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	26-MAY-11
SOLIDS-TOTSUS-WP		Water						
Batch	R2194642							
WG1284870-2	CVS							
Total Suspended Solids			90		%		85-115	26-MAY-11
WG1284870-3	DUP	L1008006-1						
Total Suspended Solids		14.0	13.0		mg/L	7.4	400	26-MAY-11
WG1284870-5	DUP	L1008697-1						
Total Suspended Solids		64.0	62.0		mg/L	3.2	20	26-MAY-11
WG1284870-6	DUP	L1009012-3						
Total Suspended Solids		15.0	15.0		mg/L	0.0	400	26-MAY-11
WG1284870-7	DUP	L1009203-1						
Total Suspended Solids		370	325		mg/L	13	20	26-MAY-11
WG1284870-1	MB							
Total Suspended Solids			<5.0		mg/L		5	26-MAY-11
TURBIDITY-WP		Water						
Batch	R2193736							
WG1284664-3	DUP	L1008347-1						
Turbidity		3.10	3.19		NTU	2.9	15	25-MAY-11
WG1284664-2	LCS							
Turbidity			99		%		85-115	25-MAY-11
WG1284664-1	MB							
Turbidity			<0.10		NTU		0.1	25-MAY-11

Quality Control Report

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L1007954

Report Date: 09-JUN-11

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Turbidity							
	1	21-MAY-11 11:45	25-MAY-11 17:08	48	101	hours	EHTR
	2	21-MAY-11 14:00	25-MAY-11 17:08	48	99	hours	EHTR
	3	21-MAY-11 14:00	25-MAY-11 17:08	48	99	hours	EHTR
	4	21-MAY-11 15:00	25-MAY-11 17:08	48	98	hours	EHTL
	5	21-MAY-11 15:00	25-MAY-11 17:08	48	98	hours	EHTL
pH							
	1	21-MAY-11 11:45	26-MAY-11 11:00	0.25	119	hours	EHTR-FM
	2	21-MAY-11 14:00	26-MAY-11 11:00	0.25	117	hours	EHTR-FM
	3	21-MAY-11 14:00	26-MAY-11 11:00	0.25	117	hours	EHTR-FM
	4	21-MAY-11 15:00	26-MAY-11 11:00	0.25	116	hours	EHTR-FM
	5	21-MAY-11 15:00	04-JUN-11 10:38	0.25	332	hours	EHTR-FM
Anions and Nutrients							
Phosphorus, Total							
	1	21-MAY-11 11:45	25-MAY-11 17:32	48	102	hours	EHTR
	2	21-MAY-11 14:00	25-MAY-11 17:32	48	100	hours	EHTR
	3	21-MAY-11 14:00	25-MAY-11 17:32	48	100	hours	EHTR
	4	21-MAY-11 15:00	25-MAY-11 17:32	48	99	hours	EHTL
	5	21-MAY-11 15:00	25-MAY-11 17:32	48	99	hours	EHTL
Organic Parameters							
Chlorophyll a, Pheophytin by fluorometry							
	1	21-MAY-11 11:45	23-MAY-11 14:00	48	50	hours	EHTR

Legend & Qualifier Definitions:

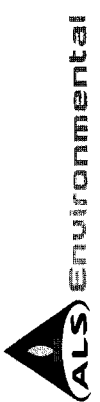
- EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
- EHTR: Exceeded ALS recommended hold time prior to sample receipt.
- EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
- EHT: Exceeded ALS recommended hold time prior to analysis.
- Rec. HT: ALS recommended hold time (see units).

Notes*:
 Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
 Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1007954 were received on 23-MAY-11 14:00.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Report To
 Company: AECOM -W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone: _____ Fax: _____
 Email 1: cliff.samoiloff@aecom.com
 Email 2: shawna.kjartanson@aecom.com
 Email 3: _____

Service Requested (Rush for routine analysis subject to availability)
 Regular (Standard Turnaround Times - Business Days)
 Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
 Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
 Same Day or Weekend Emergency - Contact ALS to Confirm TAT

Analysis Request
 Please indicate below Filtered, Preserved or both (F, P, F/P)
 Chlorophylla / Pheophytin
 Acidity, Colour, Turbidity
 Anions, Br, silica, ph, ec, Alk
 NH₃, TKN, PT
 CBOD
 Solids (TSS, TDS)
 Metals & HG - Total
 Metals & Hg - Dissolved
 TOC, DOC
 Number of Containers

Sample #	Lab Work Order # (lab use only)	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Sampler:
1	UC1-01		21-MAY-11	11:45	water	
2	THC-01		21-MAY-11	1400	water	
3	DUP-01		21-MAY-11	1400	water	
4	GHC-01		21-MAY-11	1500	water	
5	TRB-02		21-MAY-11	1500	water	

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: Jennie Ryan Date (dd-mm-yy): 21 MAY 11 Time (hh-mm): _____
 Received by: AEM Date: 23 May 11 Time: 8:00pm Temperature: 14.4 °C
 Verified by: _____ Date: _____ Time: _____
 Observations: Yes / No? _____ If Yes add SIF _____



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 24-MAY-11
Report Date: 09-JUN-11 12:08 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1008005
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-200
Legal Site Desc:
C of C Numbers:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-1 ANB-01							
Sampled By: CLIENT on 23-MAY-11 @ 10:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	1.6		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	1.5		1.0	mg/L	25-MAY-11	30-MAY-11	R2195641
Chloride (Cl)	13.0		0.50	mg/L		26-MAY-11	R2193628
Colour, True	18.9		5.0	CU		26-MAY-11	R2194632
Dissolved Organic Carbon	10.7		1.0	mg/L		06-JUN-11	R2199751
Fluoride (F)	0.145		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	200		0.30	mg/L		26-MAY-11	
Hardness (as CaCO3)	193		0.20	mg/L		27-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.021		0.010	mg/L		26-MAY-11	R2195446
Silica, Reactive (as SiO2)	0.437	DLA	0.050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	129		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	262		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	0.66		0.20	mg/L	24-MAY-11	30-MAY-11	R2196028
Total Organic Carbon	10.8		1.0	mg/L		06-JUN-11	R2199751
Total Suspended Solids	13.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	8.97		0.10	NTU		24-MAY-11	R2193149
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.510		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	0.00852		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00280		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0225		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	0.021		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	0.000072		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	66.2		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	0.0013		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	0.00031		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	0.00529		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	0.64		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	0.000334		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0046		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	8.48		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	0.0263		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	0.00070		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	4.95		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.00354		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	0.0012		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	1.34		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	8.83		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.162		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-1 ANB-01							
Sampled By: CLIENT on 23-MAY-11 @ 10:00							
Matrix: WATER							
Total Metals by ICP-MS							
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	0.00015		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.0259		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	0.00118		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	0.0551		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	0.00060		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0049		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00932		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00248		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0182		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	0.021		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	24-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	63.9		0.050	mg/L	24-MAY-11	26-MAY-11	R2194558
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00233		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	24-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0045		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	8.17		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	0.0117		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	0.00072		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	4.76		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.00277		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	0.0011		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	0.226		0.050	mg/L	24-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	9.06		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	0.164		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	0.00066		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	0.00040		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	0.0267		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	24-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	4.24		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-1 ANB-01 Sampled By: CLIENT on 23-MAY-11 @ 10:00 Matrix: WATER Chlorophyll a, Pheophytin by fluorometry Phaeophytin a	3.70		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	60.3		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	73.5		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	<0.60		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	<0.40		0.40	mg/L		26-MAY-11	R2194654
Conductivity							
Conductivity	430		0.40	umhos/cm		26-MAY-11	R2194654
pH							
pH	8.06		0.10	pH units		26-MAY-11	R2194654
L1008005-2 ANB-02 Sampled By: CLIENT on 23-MAY-11 @ 11:00 Matrix: WATER Miscellaneous Parameters							
Acidity (as CaCO3)	1.3		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	1.3		1.0	mg/L	25-MAY-11	30-MAY-11	R2195641
Chloride (Cl)	6.88		0.50	mg/L		26-MAY-11	R2193628
Colour, True	15.7		5.0	CU		26-MAY-11	R2194632
Dissolved Organic Carbon	10.8		1.0	mg/L		06-JUN-11	R2199751
Fluoride (F)	0.078		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	109		0.20	mg/L		26-MAY-11	
Hardness (as CaCO3)	116		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.020		0.010	mg/L		26-MAY-11	R2195446
Silica, Reactive (as SiO2)	0.792	DLA	0.050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	43.8		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	126		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	0.60		0.20	mg/L	24-MAY-11	30-MAY-11	R2196028
Total Organic Carbon	10.7		1.0	mg/L		06-JUN-11	R2199751
Total Suspended Solids	<5.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	3.89		0.10	NTU		24-MAY-11	R2193149
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.199		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	0.00261		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00150		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0141		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	0.014		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	0.000023		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	33.4		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-2 ANB-02							
Sampled By: CLIENT on 23-MAY-11 @ 11:00							
Matrix: WATER							
Total Metals by ICP-MS							
Copper (Cu)-Total	0.00231		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	0.18		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	0.000136		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0032		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	8.04		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	0.0186		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	0.00027		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	2.34		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.00175		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	0.829		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	5.19		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.0842		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00957		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	0.00057		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	0.0167		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0044		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00290		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00140		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0125		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	0.014		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	24-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	31.1		0.050	mg/L	24-MAY-11	26-MAY-11	R2193987
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	0.0022		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00128		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	24-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0034		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	7.70		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	0.00339		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	0.00027		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	2.14		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.00143		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-2 ANB-02							
Sampled By: CLIENT on 23-MAY-11 @ 11:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Silicon (Si)-Dissolved	0.464		0.050	mg/L	24-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	4.94		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	0.0841		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	0.00034		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	0.00071		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	0.0085		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	24-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	3.19		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	3.30		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	67.4		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	82.2		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	<0.60		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	<0.40		0.40	mg/L		26-MAY-11	R2194654
Conductivity							
Conductivity	244		0.40	umhos/cm		26-MAY-11	R2194654
pH							
pH	8.13		0.10	pH units		26-MAY-11	R2194654
L1008005-3 ANB-03							
Sampled By: CLIENT on 23-MAY-11 @ 11:45							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	1.0		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	1.1		1.0	mg/L	25-MAY-11	30-MAY-11	R2195641
Chloride (Cl)	4.22		0.50	mg/L		26-MAY-11	R2193628
Colour, True	16.3		5.0	CU		26-MAY-11	R2194632
Dissolved Organic Carbon	10.2		1.0	mg/L		06-JUN-11	R2199751
Fluoride (F)	<0.050		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	71.7		0.20	mg/L		27-MAY-11	
Hardness (as CaCO3)	77.9		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.016		0.010	mg/L		26-MAY-11	R2195446
Silica, Reactive (as SiO2)	1.16	DLA	0.050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	5.00		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	84.0		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	0.59		0.20	mg/L	24-MAY-11	30-MAY-11	R2196028

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-3 ANB-03							
Sampled By: CLIENT on 23-MAY-11 @ 11:45							
Matrix: WATER							
Total Organic Carbon	10.2		1.0	mg/L		06-JUN-11	R2199751
Total Suspended Solids	<5.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	3.58		0.10	NTU		24-MAY-11	R2193149
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.131		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00093		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0118		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	0.011		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	18.9		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	0.00101		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	0.14		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	0.000092		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0031		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	7.48		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	0.0179		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	1.26		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.00116		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	0.984		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	3.59		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.0511		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00511		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	0.00042		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0054		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00031		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00090		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0104		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	0.011		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	24-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	17.0		0.050	mg/L	24-MAY-11	26-MAY-11	R2193987

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-3 ANB-03							
Sampled By: CLIENT on 23-MAY-11 @ 11:45							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	0.0027		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00076		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	24-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0034		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	7.12		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	0.00071		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	1.16		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.00092		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	0.786		0.050	mg/L	24-MAY-11	26-MAY-11	R2194558
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	3.34		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	0.0451		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2194558
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	24-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	2.94		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	2.82		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	70.0		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	85.4		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	<0.60		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	<0.40		0.40	mg/L		26-MAY-11	R2194654
Conductivity							
Conductivity	159		0.40	umhos/cm		26-MAY-11	R2194654
pH							
pH	8.17		0.10	pH units		26-MAY-11	R2194654
L1008005-4 ANB-04							
Sampled By: CLIENT on 23-MAY-11 @ 13:45							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	1.3		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	1.5		1.0	mg/L	25-MAY-11	30-MAY-11	R2195641
Chloride (Cl)	6.18		0.50	mg/L		26-MAY-11	R2193628

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-4 ANB-04							
Sampled By: CLIENT on 23-MAY-11 @ 13:45							
Matrix: WATER							
Colour, True	14.9		5.0	CU		26-MAY-11	R2194632
Dissolved Organic Carbon	10.3		1.0	mg/L		06-JUN-11	R2199751
Fluoride (F)	0.069		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	104		0.30	mg/L		26-MAY-11	
Hardness (as CaCO3)	101		0.20	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.021		0.010	mg/L		26-MAY-11	R2195446
Silica, Reactive (as SiO2)	0.793	DLA	0.050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	33.7		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	128		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	0.62		0.20	mg/L	24-MAY-11	30-MAY-11	R2196028
Total Organic Carbon	10.6		1.0	mg/L		06-JUN-11	R2199751
Total Suspended Solids	<5.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	4.60		0.10	NTU		24-MAY-11	R2193149
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.178		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	0.00209		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00138		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0137		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	0.015		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	0.000018		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	29.0		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	0.00189		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	0.20		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	0.000136		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0040		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	7.70		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	0.0220		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	0.00024		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	2.09		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.00164		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	0.971		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	4.70		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.0756		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00762		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-4 ANB-04							
Sampled By: CLIENT on 23-MAY-11 @ 13:45							
Matrix: WATER							
Total Metals by ICP-MS							
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	0.00059		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	0.0111		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0043		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00231		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00122		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0122		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	0.013		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	24-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	28.6		0.050	mg/L	24-MAY-11	26-MAY-11	R2193987
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00161		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	24-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0038		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	7.21		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	0.00398		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	0.00023		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	1.87		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.00133		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	0.456		0.050	mg/L	24-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	4.39		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	0.0772		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	0.00032		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	0.00041		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	0.0055		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	24-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	3.52		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	3.29		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	67.8		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	82.7		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	<0.60		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	<0.40		0.40	mg/L		26-MAY-11	R2194654

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-4 ANB-04 Sampled By: CLIENT on 23-MAY-11 @ 13:45 Matrix: WATER							
Conductivity Conductivity	223		0.40	umhos/cm		26-MAY-11	R2194654
pH pH	8.15		0.10	pH units		26-MAY-11	R2194654
L1008005-5 ANB-05 Sampled By: CLIENT on 23-MAY-11 @ 12:20 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	1.2		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	1.3		1.0	mg/L	25-MAY-11	30-MAY-11	R2195641
Chloride (Cl)	4.23		0.50	mg/L		26-MAY-11	R2193628
Colour, True	16.3		5.0	CU		26-MAY-11	R2194632
Dissolved Organic Carbon	10.2		1.0	mg/L		06-JUN-11	R2199751
Fluoride (F)	<0.050		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	75.9		0.20	mg/L		27-MAY-11	
Hardness (as CaCO3)	77.3		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.017		0.010	mg/L		26-MAY-11	R2195446
Silica, Reactive (as SiO2)	1.17	DLA	0.050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	5.15		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	74.0		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	0.54		0.20	mg/L	24-MAY-11	30-MAY-11	R2196028
Total Organic Carbon	10.5		1.0	mg/L		06-JUN-11	R2199751
Total Suspended Solids	<5.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	2.47		0.10	NTU		24-MAY-11	R2193149
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.136		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	0.00021		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00097		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0119		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	0.011		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	18.8		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	0.00099		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	0.16		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	<0.000090		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0032		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	7.42		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	0.0164		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-5 ANB-05							
Sampled By: CLIENT on 23-MAY-11 @ 12:20							
Matrix: WATER							
Total Metals by ICP-MS							
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	1.24		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.00120		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	1.07		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	3.46		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.0498		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00567		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	0.00042		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0046		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00035		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00094		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0107		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	<0.010		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	24-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	18.2		0.050	mg/L	24-MAY-11	26-MAY-11	R2193987
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	0.0027		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00071		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	24-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0029		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	7.39		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	0.00062		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	1.24		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.00093		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	0.768		0.050	mg/L	24-MAY-11	26-MAY-11	R2194558
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	3.52		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	0.0500		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-5 ANB-05							
Sampled By: CLIENT on 23-MAY-11 @ 12:20							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2194558
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	24-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	2.33		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	2.53		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	70.2		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	85.6		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	<0.60		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	<0.40		0.40	mg/L		26-MAY-11	R2194654
Conductivity							
Conductivity	158		0.40	umhos/cm		26-MAY-11	R2194654
pH							
pH	8.14		0.10	pH units		26-MAY-11	R2194654
L1008005-6 ANB-06							
Sampled By: CLIENT on 23-MAY-11 @ 14:20							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	1.2		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	1.3		1.0	mg/L	25-MAY-11	30-MAY-11	R2195641
Chloride (Cl)	4.21		0.50	mg/L		26-MAY-11	R2193628
Colour, True	12.2		5.0	CU		26-MAY-11	R2194632
Dissolved Organic Carbon	10.0		1.0	mg/L		06-JUN-11	R2199751
Fluoride (F)	<0.050		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	73.4		0.20	mg/L		27-MAY-11	
Hardness (as CaCO3)	74.8		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.018		0.010	mg/L		26-MAY-11	R2195446
Silica, Reactive (as SiO2)	1.15	DLA	0.050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	5.75		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	88.0		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	0.63		0.20	mg/L	24-MAY-11	30-MAY-11	R2196028
Total Organic Carbon	10.2		1.0	mg/L		06-JUN-11	R2199751
Total Suspended Solids	9.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	3.55		0.10	NTU		24-MAY-11	R2193149
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.193		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	0.00023		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00098		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0121		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-6 ANB-06							
Sampled By: CLIENT on 23-MAY-11 @ 14:20							
Matrix: WATER							
Total Metals by ICP-MS							
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	0.011		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	18.0		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	0.00110		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	0.21		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	0.000117		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0028		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	7.25		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	0.0179		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	1.27		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.00130		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	1.13		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	3.48		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.0511		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00783		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	0.00052		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0051		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00040		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00087		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0103		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	0.010		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	24-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	17.5		0.050	mg/L	24-MAY-11	26-MAY-11	R2193987
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00075		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	24-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0035		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-6 ANB-06							
Sampled By: CLIENT on 23-MAY-11 @ 14:20							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Magnesium (Mg)-Dissolved	7.23		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	0.00060		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	1.23		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.00095		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	0.775		0.050	mg/L	24-MAY-11	26-MAY-11	R2194558
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	3.59		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	0.0477		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	0.00039		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	24-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	2.37		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	2.53		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	70.0		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	85.3		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	<0.60		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	<0.40		0.40	mg/L		26-MAY-11	R2194654
Conductivity							
Conductivity	159		0.40	umhos/cm		26-MAY-11	R2194654
pH							
pH	8.16		0.10	pH units		26-MAY-11	R2194654
L1008005-7 TRB-04							
Sampled By: CLIENT on 23-MAY-11 @ 15:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	1.0		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		02-JUN-11	R2198021
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	<1.0		1.0	mg/L	25-MAY-11	30-MAY-11	R2195641
Chloride (Cl)	<0.50		0.50	mg/L		26-MAY-11	R2193628
Colour, True	<5.0		5.0	CU		26-MAY-11	R2194632
Dissolved Organic Carbon	<1.0		1.0	mg/L		06-JUN-11	R2199751
Fluoride (F)	<0.050		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	<0.20		0.20	mg/L		26-MAY-11	
Hardness (as CaCO3)	<0.30		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-7 TRB-04							
Sampled By: CLIENT on 23-MAY-11 @ 15:00							
Matrix: WATER							
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	<0.010		0.010	mg/L		26-MAY-11	R2195446
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	<0.50		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	<5.0		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	24-MAY-11	30-MAY-11	R2196028
Total Organic Carbon	<1.0		1.0	mg/L		06-JUN-11	R2199751
Total Suspended Solids	<5.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	0.12		0.10	NTU		24-MAY-11	R2193149
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	<0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	<0.10		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	<0.10		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	<0.000090		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	<0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	<0.020		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	<0.050		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	<0.030		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00046		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008005-7 TRB-04							
Sampled By: CLIENT on 23-MAY-11 @ 15:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	<0.010		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	24-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	<0.050		0.050	mg/L	24-MAY-11	26-MAY-11	R2193987
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	24-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	<0.020		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	24-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	24-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	<0.20	DLB	0.20	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	1.9		1.0	mg/L		01-JUN-11	R2197288
Bicarbonate (HCO3)	2.3		2.0	mg/L		01-JUN-11	R2197288
Carbonate (CO3)	<0.60		0.60	mg/L		01-JUN-11	R2197288
Hydroxide (OH)	<0.40		0.40	mg/L		01-JUN-11	R2197288
Conductivity							
Conductivity	0.96		0.40	umhos/cm		01-JUN-11	R2197367
pH							
pH	5.86		0.10	pH units		26-MAY-11	R2194654

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution
DLB	Detection limit was raised due to detection of analyte at comparable level in Method Blank.
DLM	Detection Limit Adjusted For Sample Matrix Effects
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B

Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO₃⁻ and H₂CO₃ endpoints indicated electrometrically.

BR-IC-ED	Water	Bromide by IC	APHA 4110 B-ION CHROMATOGRAPHY
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP

This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
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This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

CHL,PHEO-FLUORO-WP	Water	Chlorophyll a, Pheophytin by fluorometry	EPA 445.0
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Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification.

CL-IC-ED	Water	Chloride by IC	APHA 4110 B-ION CHROMATOGRAPHY
COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR

This analysis is carried out using procedures adapted from APHA 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. Colour is pH dependent. Unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit.

CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
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A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.

EC-WP	Water	Conductivity	APHA 2510B
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Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.

ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	HARDNESS CALCULATED
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
F-IC-ED	Water	Fluoride by IC	APHA 4110 B-ION CHROMATOGRAPHY

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0
Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.			
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.			
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.			
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.			
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.			
N2N3-COL-WP	Water	Nitrate + Nitrite	APHA4500;2005/LACHAT;1997,1999
The sample is passed through a column containing cadmium granules coated with copper sulphate, reducing nitrate to nitrite. The resulting nitrites plus those originally present in the sample are reacted with sulfanilamide (an organic amine) to form the diazonium salt which is coupled in an acidic solution with N-(1-naphthyl)-ethylenediamine dihydrochloride, to form azo dye. The azo dye intensity is measured by a colorimeter at 520 nm. The Omnion software compares the sample peak areas to a calibration curve and reports the concentration of nitrate-nitrite in the sample as nitrogen.			
Reference: APHA, AWWA, WPCF, Standard Methods for the Examination of Water and Wastewaters, 20th Edition, Washington, 1998. Method 4500-NO3-I			
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.			
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.			
PH-WP	Water	pH	APHA 4500H
The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.			
SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2
This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.			
SO4-IC-ED	Water	Sulfate by IC	APHA 4110 B-ION CHROMATOGRAPHY
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540C
The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.			
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540D

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.			
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B
A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
ED	ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1008005

Report Date: 09-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R2200530							
WG1292189-2	CVS							
Acidity (as CaCO3)			104		%		85-115	03-JUN-11
WG1292189-3	DUP	L1007855-2						
Acidity (as CaCO3)		1.6	1.6		mg/L	0.32	400	03-JUN-11
WG1292189-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	03-JUN-11
ALK-TOT-WP								
	Water							
Batch	R2194654							
WG1285720-4	DUP	L1008444-1						
Alkalinity, Total (as CaCO3)		37.9	37.8		mg/L	0.21	20	26-MAY-11
Bicarbonate (HCO3)		46.2	46.1		mg/L	0.21	25	26-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	26-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	26-MAY-11
WG1285720-5	DUP	L1008005-3						
Alkalinity, Total (as CaCO3)		70.0	70.0		mg/L	0.087	20	26-MAY-11
Bicarbonate (HCO3)		85.4	85.3		mg/L	0.087	25	26-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	26-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	26-MAY-11
Batch	R2197288							
WG1288720-3	CVS							
Alkalinity, Total (as CaCO3)			102		%		85-115	01-JUN-11
WG1288720-8	DUP	L1010853-4						
Alkalinity, Total (as CaCO3)		381	381		mg/L	0.053	20	01-JUN-11
Bicarbonate (HCO3)		464	465		mg/L	0.053	25	01-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	01-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	01-JUN-11
BR-IC-ED								
	Water							
Batch	R2193628							
WG1284220-3	DUP	L1007494-186						
Bromide (Br)		1.2	1.2		mg/L	1.7	20	25-MAY-11
WG1284220-5	DUP	L1007494-401						
Bromide (Br)		1.4	1.4		mg/L	2.0	20	25-MAY-11
WG1284220-7	DUP	L1008005-7						
Bromide (Br)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Bromide (Br)			109		%		85-115	25-MAY-11



Quality Control Report

Workorder: L1008005

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BR-IC-ED		Water						
Batch	R2193628							
WG1284220-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	25-MAY-11
WG1284220-4	MS	L1007494-186						
Bromide (Br)			92		%		75-125	25-MAY-11
WG1284220-6	MS	L1007494-401						
Bromide (Br)			N/A	MS-B	%		-	25-MAY-11
WG1284220-8	MS	L1008005-7						
Bromide (Br)			104		%		75-125	26-MAY-11
C-DIS-ORG-WP		Water						
Batch	R2199751							
WG1291294-2	CVS							
Dissolved Organic Carbon			103		%		80-120	06-JUN-11
WG1291288-1	MB							
Dissolved Organic Carbon			<1.0		mg/L		1	06-JUN-11
C-TOT-ORG-WP		Water						
Batch	R2199751							
WG1291294-2	CVS							
Total Organic Carbon			105		%		80-120	06-JUN-11
WG1291294-3	DUP	L1008501-1						
Total Organic Carbon		16.3	15.8		mg/L	2.6	20	06-JUN-11
WG1291294-1	MB							
Total Organic Carbon			<1.0		mg/L		1	06-JUN-11
CHL,PHEO-FLUORO-WP		Water						
Batch	R2193661							
WG1284255-1	CVS							
Chlorophyll a			80		%		65-135	25-MAY-11
WG1284255-2	CVS							
Chlorophyll a			101		%		65-135	25-MAY-11
WG1284251-2	DUP	L1007855-1						
Chlorophyll a		2.81	3.71		ug/L	28	35	25-MAY-11
Phaeophytin a		2.68	3.22		ug/L	18	35	25-MAY-11
WG1284251-3	DUP	L1008005-2						
Chlorophyll a		3.19	3.24		ug/L	1.6	35	25-MAY-11
Phaeophytin a		3.30	3.20		ug/L	3.1	35	25-MAY-11
CL-IC-ED		Water						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-IC-ED		Water						
Batch	R2193628							
WG1284220-7	DUP	L1008005-7						
Chloride (Cl)		<0.50	<0.50	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Chloride (Cl)			98		%		85-115	25-MAY-11
WG1284220-1	MB							
Chloride (Cl)			<0.50		mg/L		0.5	25-MAY-11
WG1284220-8	MS	L1008005-7						
Chloride (Cl)			108		%		75-125	26-MAY-11
COLOUR-TRUE-WP		Water						
Batch	R2194632							
WG1285688-3	DUP	L1004360-1						
Colour, True		42.4	43.9		CU	3.5	20	26-MAY-11
WG1285688-4	DUP	L1008712-1						
Colour, True		32.7	33.5		CU	2.3	20	26-MAY-11
WG1285688-1	MB							
Colour, True			<5.0		CU		5	26-MAY-11
CONSULT-BOD-CBOD-WP		Water						
Batch	R2195641							
WG1284114-3	DUP	L1008005-1						
BOD Carbonaceous		1.5	1.6		mg/L	6.7	400	30-MAY-11
WG1284114-4	DUP	L1008007-3						
BOD Carbonaceous		<1.0	<1.0	RPD-NA	mg/L	N/A	400	30-MAY-11
WG1284114-2	IRM	61-GG						
BOD Carbonaceous			106		%		85-115	30-MAY-11
WG1284114-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	30-MAY-11
EC-WP		Water						
Batch	R2194654							
WG1285720-1	CVS							
Conductivity			97		%		90-110	26-MAY-11
WG1285720-5	DUP	L1008005-3						
Conductivity		159	158		umhos/cm	0.69	10	26-MAY-11
Batch	R2197367							
WG1288805-1	CVS							
Conductivity			99		%		90-110	01-JUN-11
WG1288805-2	DUP	L1008005-7						
Conductivity		0.96	0.96		umhos/cm	0.0	400	01-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-ED		Water						
Batch	R2193628							
WG1284220-3	DUP	L1007494-186						
Fluoride (F)		4.13	4.05		mg/L	2.1	20	25-MAY-11
WG1284220-5	DUP	L1007494-401						
Fluoride (F)		1.99	1.98		mg/L	0.45	20	25-MAY-11
WG1284220-7	DUP	L1008005-7						
Fluoride (F)		<0.050	<0.050	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Fluoride (F)			106		%		85-115	25-MAY-11
WG1284220-1	MB							
Fluoride (F)			<0.050		mg/L		0.05	25-MAY-11
WG1284220-4	MS	L1007494-186						
Fluoride (F)			N/A	MS-B	%		-	25-MAY-11
WG1284220-6	MS	L1007494-401						
Fluoride (F)			N/A	MS-B	%		-	25-MAY-11
WG1284220-8	MS	L1008005-7						
Fluoride (F)			120		%		75-125	26-MAY-11
HG-D-CVAF-WP		Water						
Batch	R2194712							
WG1285755-3	DUP	L1007855-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1285755-5	DUP	L1008007-5						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1285755-2	LCS							
Mercury (Hg)-Dissolved			98		%		80-120	26-MAY-11
Mercury (Hg)-Dissolved			98		%		80-120	26-MAY-11
WG1285754-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
WG1285755-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
WG1285755-4	MS	L1007855-1						
Mercury (Hg)-Dissolved			110		%		70-130	26-MAY-11
Mercury (Hg)-Dissolved			110		%		70-130	26-MAY-11
WG1285755-6	MS	L1008007-5						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAF-WP								
	Water							
Batch	R2194712							
WG1285755-6 MS		L1008007-5						
Mercury (Hg)-Dissolved			93		%		70-130	26-MAY-11
Mercury (Hg)-Dissolved			93		%		70-130	26-MAY-11
HG-T-CVAF-WP								
	Water							
Batch	R2194078							
WG1285021-3 DUP		L1007210-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
WG1285021-5 DUP		L1008005-5						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
WG1285021-2 LCS								
Mercury (Hg)-Total			88		%		80-120	25-MAY-11
Mercury (Hg)-Total			88		%		80-120	25-MAY-11
WG1285021-1 MB								
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	25-MAY-11
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	25-MAY-11
WG1285021-4 MS		L1006894-1						
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
WG1285021-6 MS		L1008005-5						
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
MET-D-L-MS-WP								
	Water							
Batch	R2193987							
WG1284822-4 DUP		WG1284822-3						
Aluminum (Al)-Dissolved		0.0298	0.0288		mg/L	3.3	20	26-MAY-11
Antimony (Sb)-Dissolved		0.00364	0.00361		mg/L	0.86	20	26-MAY-11
Arsenic (As)-Dissolved		0.00377	0.00368		mg/L	2.6	20	26-MAY-11
Barium (Ba)-Dissolved		0.0252	0.0256		mg/L	1.6	20	26-MAY-11
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Boron (B)-Dissolved		0.026	0.028		mg/L	6.0	400	26-MAY-11
Cadmium (Cd)-Dissolved		0.00326	0.00329		mg/L	0.92	20	26-MAY-11
Calcium (Ca)-Dissolved		167	168		mg/L	0.60	20	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2193987							
WG1284822-4	DUP	WG1284822-3						
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Chromium (Cr)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	26-MAY-11
Cobalt (Co)-Dissolved		0.00105	0.00102		mg/L	2.8	20	26-MAY-11
Copper (Cu)-Dissolved		0.0293	0.0293		mg/L	0.16	20	26-MAY-11
Iron (Fe)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	26-MAY-11
Lead (Pb)-Dissolved		0.000357	0.000355		mg/L	0.56	400	26-MAY-11
Lithium (Li)-Dissolved		0.0072	0.0080		mg/L	10	400	26-MAY-11
Magnesium (Mg)-Dissolved		8.79	8.62		mg/L	2.0	20	26-MAY-11
Manganese (Mn)-Dissolved		0.0681	0.0682		mg/L	0.11	20	26-MAY-11
Molybdenum (Mo)-Dissolved		0.00365	0.00364		mg/L	0.30	20	26-MAY-11
Nickel (Ni)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	26-MAY-11
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	26-MAY-11
Potassium (K)-Dissolved		5.88	5.81		mg/L	1.2	20	26-MAY-11
Rubidium (Rb)-Dissolved		0.00645	0.00637		mg/L	1.2	20	26-MAY-11
Selenium (Se)-Dissolved		0.0149	0.0143		mg/L	4.0	20	26-MAY-11
Silicon (Si)-Dissolved		1.17	1.20		mg/L	2.5	20	26-MAY-11
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Sodium (Na)-Dissolved		254	258		mg/L	1.6	20	26-MAY-11
Strontium (Sr)-Dissolved		1.03	1.02		mg/L	1.1	20	26-MAY-11
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	26-MAY-11
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Titanium (Ti)-Dissolved		0.00139	0.00128		mg/L	8.3	20	26-MAY-11
Tungsten (W)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Vanadium (V)-Dissolved		0.00047	0.00049		mg/L	3.7	400	26-MAY-11
Zinc (Zn)-Dissolved		0.423	0.425		mg/L	0.41	20	26-MAY-11
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	26-MAY-11
WG1284822-2	LCS							
Aluminum (Al)-Dissolved			109		%		80-120	26-MAY-11
Antimony (Sb)-Dissolved			103		%		80-120	26-MAY-11
Arsenic (As)-Dissolved			100		%		80-120	26-MAY-11



Quality Control Report

Workorder: L1008005

Report Date: 09-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R2193987							
WG1284822-2	LCS							
Barium (Ba)-Dissolved			102		%		80-120	26-MAY-11
Beryllium (Be)-Dissolved			103		%		80-120	26-MAY-11
Bismuth (Bi)-Dissolved			109		%		80-120	26-MAY-11
Boron (B)-Dissolved			104		%		80-120	26-MAY-11
Cadmium (Cd)-Dissolved			106		%		80-120	26-MAY-11
Calcium (Ca)-Dissolved			101		%		80-120	26-MAY-11
Cesium (Cs)-Dissolved			100		%		80-120	26-MAY-11
Chromium (Cr)-Dissolved			103		%		80-120	26-MAY-11
Cobalt (Co)-Dissolved			100		%		80-120	26-MAY-11
Copper (Cu)-Dissolved			99		%		80-120	26-MAY-11
Iron (Fe)-Dissolved			99		%		80-120	26-MAY-11
Lead (Pb)-Dissolved			101		%		80-120	26-MAY-11
Lithium (Li)-Dissolved			103		%		80-120	26-MAY-11
Magnesium (Mg)-Dissolved			104		%		80-120	26-MAY-11
Manganese (Mn)-Dissolved			101		%		80-120	26-MAY-11
Molybdenum (Mo)-Dissolved			106		%		80-120	26-MAY-11
Nickel (Ni)-Dissolved			99		%		80-120	26-MAY-11
Phosphorus (P)-Dissolved			103		%		80-120	26-MAY-11
Potassium (K)-Dissolved			103		%		80-120	26-MAY-11
Rubidium (Rb)-Dissolved			107		%		80-120	26-MAY-11
Selenium (Se)-Dissolved			101		%		80-120	26-MAY-11
Silicon (Si)-Dissolved			104		%		80-120	26-MAY-11
Silver (Ag)-Dissolved			102		%		80-120	26-MAY-11
Sodium (Na)-Dissolved			104		%		80-120	26-MAY-11
Strontium (Sr)-Dissolved			108		%		80-120	26-MAY-11
Tellurium (Te)-Dissolved			103		%		80-120	26-MAY-11
Thallium (Tl)-Dissolved			111		%		80-120	26-MAY-11
Thorium (Th)-Dissolved			102		%		80-120	26-MAY-11
Tin (Sn)-Dissolved			104		%		80-120	26-MAY-11
Titanium (Ti)-Dissolved			100		%		80-120	26-MAY-11
Tungsten (W)-Dissolved			98		%		80-120	26-MAY-11
Uranium (U)-Dissolved			100		%		80-120	26-MAY-11
Vanadium (V)-Dissolved			103		%		80-120	26-MAY-11



Quality Control Report

Workorder: L1008005

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2193987							
WG1284822-2	LCS							
Zinc (Zn)-Dissolved			100		%		80-120	26-MAY-11
Zirconium (Zr)-Dissolved			102		%		80-120	26-MAY-11
WG1284822-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.02	26-MAY-11
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Arsenic (As)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Boron (B)-Dissolved			<0.010		mg/L		0.03	26-MAY-11
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.0002	26-MAY-11
Calcium (Ca)-Dissolved			<0.050		mg/L		0.2	26-MAY-11
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	26-MAY-11
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Copper (Cu)-Dissolved			<0.00020		mg/L		0.002	26-MAY-11
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	26-MAY-11
Lead (Pb)-Dissolved			<0.000090		mg/L		0.001	26-MAY-11
Lithium (Li)-Dissolved			<0.0020		mg/L		0.01	26-MAY-11
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.05	26-MAY-11
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.001	26-MAY-11
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.002	26-MAY-11
Phosphorus (P)-Dissolved			<0.10		mg/L		0.5	26-MAY-11
Potassium (K)-Dissolved			<0.020		mg/L		0.1	26-MAY-11
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Selenium (Se)-Dissolved			<0.0010		mg/L		0.005	26-MAY-11
Silicon (Si)-Dissolved			<0.050		mg/L		0.3	26-MAY-11
Silver (Ag)-Dissolved			<0.00010		mg/L		0.001	26-MAY-11
Sodium (Na)-Dissolved			<0.020		mg/L		0.05	26-MAY-11
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.005	26-MAY-11
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch R2193987								
WG1284822-1 MB								
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0006	26-MAY-11
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Tungsten (W)-Dissolved			<0.00020		mg/L		0.002	26-MAY-11
Uranium (U)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Vanadium (V)-Dissolved			<0.00020		mg/L		0.002	26-MAY-11
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.02	26-MAY-11
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.001	26-MAY-11
MET-T-L-MS-WP		Water						
Batch R2193921								
WG1284263-4 DUP								
		WG1284263-3						
Aluminum (Al)-Total		0.0592	0.0669		mg/L	12	20	25-MAY-11
Antimony (Sb)-Total		0.00327	0.00326		mg/L	0.52	20	25-MAY-11
Arsenic (As)-Total		0.00502	0.00502		mg/L	0.0	20	25-MAY-11
Barium (Ba)-Total		0.0261	0.0254		mg/L	2.9	20	25-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Boron (B)-Total		0.026	0.024		mg/L	7.7	400	25-MAY-11
Cadmium (Cd)-Total		0.00342	0.00334		mg/L	2.4	20	25-MAY-11
Calcium (Ca)-Total		158	157		mg/L	0.69	20	25-MAY-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Cobalt (Co)-Total		0.00112	0.00114		mg/L	1.2	20	25-MAY-11
Copper (Cu)-Total		0.0441	0.0443		mg/L	0.57	20	25-MAY-11
Iron (Fe)-Total		0.30	0.31		mg/L	5.4	400	25-MAY-11
Lead (Pb)-Total		0.00154	0.00167		mg/L	7.8	20	25-MAY-11
Lithium (Li)-Total		0.0070	0.0065		mg/L	8.4	400	25-MAY-11
Magnesium (Mg)-Total		8.45	7.92		mg/L	6.4	20	25-MAY-11
Manganese (Mn)-Total		0.0766	0.0741		mg/L	3.3	20	25-MAY-11
Molybdenum (Mo)-Total		0.00365	0.00365		mg/L	0.0	20	25-MAY-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	25-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	25-MAY-11
Potassium (K)-Total		5.67	5.55		mg/L	2.2	20	25-MAY-11
Rubidium (Rb)-Total		0.00616	0.00601		mg/L	2.4	20	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2193921							
WG1284263-4 DUP		WG1284263-3						
Selenium (Se)-Total		0.0159	0.0157		mg/L	1.7	20	25-MAY-11
Silicon (Si)-Total		1.55	1.33		mg/L	15	20	25-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Sodium (Na)-Total		31.2	30.8		mg/L	1.4	20	25-MAY-11
Strontium (Sr)-Total		0.993	0.981		mg/L	1.3	20	25-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	25-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Vanadium (V)-Total		0.00024	0.00028		mg/L	15	400	25-MAY-11
Zinc (Zn)-Total		0.427	0.420		mg/L	1.5	20	25-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	25-MAY-11
WG1284263-6 DUP		WG1284263-5						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	25-MAY-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Arsenic (As)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Barium (Ba)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	25-MAY-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	25-MAY-11
Calcium (Ca)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	25-MAY-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Copper (Cu)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Iron (Fe)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	25-MAY-11
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	400	25-MAY-11
Lithium (Li)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	25-MAY-11
Magnesium (Mg)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	25-MAY-11
Manganese (Mn)-Total		<0.00030	<0.00030	RPD-NA	mg/L	N/A	400	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2193921							
WG1284263-6	DUP	WG1284263-5						
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	25-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	25-MAY-11
Potassium (K)-Total		<0.020	<0.020	RPD-NA	mg/L	N/A	400	25-MAY-11
Rubidium (Rb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Silicon (Si)-Total		<0.050	<0.050	RPD-NA	mg/L	N/A	400	25-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Sodium (Na)-Total		<0.030	<0.030	RPD-NA	mg/L	N/A	400	25-MAY-11
Strontium (Sr)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	25-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Titanium (Ti)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	25-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	25-MAY-11
WG1284263-2	LCS							
Aluminum (Al)-Total			106		%		80-120	25-MAY-11
Antimony (Sb)-Total			106		%		80-120	25-MAY-11
Arsenic (As)-Total			101		%		80-120	25-MAY-11
Barium (Ba)-Total			104		%		80-120	25-MAY-11
Beryllium (Be)-Total			105		%		80-120	25-MAY-11
Bismuth (Bi)-Total			110		%		80-120	25-MAY-11
Boron (B)-Total			106		%		80-120	25-MAY-11
Cadmium (Cd)-Total			102		%		80-120	25-MAY-11
Calcium (Ca)-Total			102		%		80-120	25-MAY-11
Cesium (Cs)-Total			99		%		80-120	25-MAY-11
Chromium (Cr)-Total			102		%		80-120	25-MAY-11
Cobalt (Co)-Total			103		%		80-120	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2193921							
WG1284263-2	LCS							
Copper (Cu)-Total			98		%		80-120	25-MAY-11
Iron (Fe)-Total			104		%		80-120	25-MAY-11
Lead (Pb)-Total			105		%		80-120	25-MAY-11
Lithium (Li)-Total			104		%		80-120	25-MAY-11
Magnesium (Mg)-Total			102		%		80-120	25-MAY-11
Manganese (Mn)-Total			102		%		80-120	25-MAY-11
Molybdenum (Mo)-Total			104		%		80-120	25-MAY-11
Nickel (Ni)-Total			101		%		80-120	25-MAY-11
Phosphorus (P)-Total			104		%		80-120	25-MAY-11
Potassium (K)-Total			106		%		80-120	25-MAY-11
Rubidium (Rb)-Total			99		%		80-120	25-MAY-11
Selenium (Se)-Total			99		%		80-120	25-MAY-11
Silicon (Si)-Total			109		%		80-120	25-MAY-11
Silver (Ag)-Total			99		%		80-120	25-MAY-11
Sodium (Na)-Total			103		%		80-120	25-MAY-11
Strontium (Sr)-Total			105		%		80-120	25-MAY-11
Tellurium (Te)-Total			105		%		80-120	25-MAY-11
Thallium (Tl)-Total			109		%		80-120	25-MAY-11
Thorium (Th)-Total			101		%		70-130	25-MAY-11
Tin (Sn)-Total			103		%		80-120	25-MAY-11
Titanium (Ti)-Total			106		%		80-120	25-MAY-11
Tungsten (W)-Total			102		%		80-120	25-MAY-11
Uranium (U)-Total			99		%		80-120	25-MAY-11
Vanadium (V)-Total			105		%		80-120	25-MAY-11
Zinc (Zn)-Total			102		%		80-120	25-MAY-11
Zirconium (Zr)-Total			100		%		80-120	25-MAY-11
WG1284263-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.02	25-MAY-11
Antimony (Sb)-Total			<0.00020		mg/L		0.001	25-MAY-11
Arsenic (As)-Total			<0.00020		mg/L		0.001	25-MAY-11
Barium (Ba)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Beryllium (Be)-Total			<0.00020		mg/L		0.001	25-MAY-11
Bismuth (Bi)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Boron (B)-Total			<0.010		mg/L		0.03	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2193921							
WG1284263-1 MB								
Cadmium (Cd)-Total			<0.000010		mg/L		0.0002	25-MAY-11
Calcium (Ca)-Total			<0.10		mg/L		0.2	25-MAY-11
Cesium (Cs)-Total			<0.00010		mg/L		0.0005	25-MAY-11
Chromium (Cr)-Total			<0.0010		mg/L		0.002	25-MAY-11
Cobalt (Co)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Copper (Cu)-Total			<0.00020		mg/L		0.002	25-MAY-11
Iron (Fe)-Total			<0.10		mg/L		0.1	25-MAY-11
Lead (Pb)-Total			<0.000090		mg/L		0.001	25-MAY-11
Lithium (Li)-Total			<0.0020		mg/L		0.002	25-MAY-11
Magnesium (Mg)-Total			<0.010		mg/L		0.05	25-MAY-11
Manganese (Mn)-Total			<0.00030		mg/L		0.001	25-MAY-11
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Nickel (Ni)-Total			<0.0020		mg/L		0.002	25-MAY-11
Phosphorus (P)-Total			<0.20		mg/L		0.5	25-MAY-11
Potassium (K)-Total			<0.020		mg/L		0.1	25-MAY-11
Rubidium (Rb)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Selenium (Se)-Total			<0.0010		mg/L		0.005	25-MAY-11
Silicon (Si)-Total			<0.050		mg/L		0.3	25-MAY-11
Silver (Ag)-Total			<0.00010		mg/L		0.001	25-MAY-11
Sodium (Na)-Total			<0.030		mg/L		0.05	25-MAY-11
Strontium (Sr)-Total			<0.00010		mg/L		0.0005	25-MAY-11
Tellurium (Te)-Total			<0.00020		mg/L		0.001	25-MAY-11
Thallium (Tl)-Total			<0.00010		mg/L		0.005	25-MAY-11
Thorium (Th)-Total			<0.00010		mg/L		0.0001	25-MAY-11
Tin (Sn)-Total			<0.00020		mg/L		0.0006	25-MAY-11
Titanium (Ti)-Total			<0.00020		mg/L		0.001	25-MAY-11
Tungsten (W)-Total			<0.0010		mg/L		0.002	25-MAY-11
Uranium (U)-Total			<0.00010		mg/L		0.0005	25-MAY-11
Vanadium (V)-Total			<0.00020		mg/L		0.002	25-MAY-11
Zinc (Zn)-Total			<0.0050		mg/L		0.02	25-MAY-11
Zirconium (Zr)-Total			<0.00040		mg/L		0.001	25-MAY-11

N-TOTKJ-WP **Water**



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N-TOTKJ-WP		Water						
Batch	R2196028							
WG1287257-1	CVS							
Total Kjeldahl Nitrogen			96		%		90-110	30-MAY-11
WG1284271-4	DUP	L1007954-1						
Total Kjeldahl Nitrogen		0.94	0.91		mg/L	3.6	20	30-MAY-11
WG1284271-7	DUP	L1008004-1						
Total Kjeldahl Nitrogen		0.52	0.51		mg/L	1.9	20	30-MAY-11
WG1284271-2	LCS							
Total Kjeldahl Nitrogen			96		%		75-125	30-MAY-11
WG1284271-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	30-MAY-11
WG1284271-5	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	30-MAY-11
WG1284271-3	MS	L1007954-1						
Total Kjeldahl Nitrogen			91		%		70-130	30-MAY-11
WG1284271-6	MS	L1008004-1						
Total Kjeldahl Nitrogen			95		%		70-130	30-MAY-11
N2N3-COL-WP		Water						
Batch	R2198818							
WG1290299-3	DUP	L1006708-1						
Nitrate and Nitrite as N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	04-JUN-11
WG1290299-5	DUP	L1009506-1						
Nitrate and Nitrite as N		1.65	1.65		mg/L	0.22	20	04-JUN-11
WG1290299-7	DUP	L1007954-1						
Nitrate and Nitrite as N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	04-JUN-11
WG1290299-9	DUP	L1008172-2						
Nitrate and Nitrite as N		0.159	0.159		mg/L	0.38	20	04-JUN-11
WG1290299-2	LCS							
Nitrate and Nitrite as N			100		%		85-115	04-JUN-11
WG1290299-1	MB							
Nitrate and Nitrite as N			<0.050		mg/L		0.05	04-JUN-11
WG1290299-10	MS	L1008172-2						
Nitrate and Nitrite as N			85		%		75-125	04-JUN-11
WG1290299-6	MS	L1009506-1						
Nitrate and Nitrite as N			N/A	MS-B	%		-	04-JUN-11
WG1290299-8	MS	L1007954-1						
Nitrate and Nitrite as N			97		%		75-125	04-JUN-11
NH3-COL-WP		Water						



Quality Control Report

Workorder: L1008005

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-COL-WP		Water						
Batch	R2198021							
WG1289356-3	DUP	L1008686-1						
Ammonia as N		0.157	0.156		mg/L	0.21	20	02-JUN-11
WG1289356-5	DUP	L1011050-4						
Ammonia as N		0.063	0.064		mg/L	1.2	20	02-JUN-11
WG1289356-2	LCS							
Ammonia as N			96		%		85-115	02-JUN-11
WG1289356-1	MB							
Ammonia as N			<0.050		mg/L		0.05	02-JUN-11
WG1289356-4	MS	L1008686-1						
Ammonia as N			90		%		75-125	02-JUN-11
WG1289356-6	MS	L1009387-1						
Ammonia as N			102		%		75-125	02-JUN-11
P-T-COL-WP		Water						
Batch	R2195446							
WG1284042-3	DUP	L1007955-4						
Phosphorus (P)-Total		27.3	28.7		mg/L	5.0	20	26-MAY-11
WG1284042-4	DUP	L1007983-1						
Phosphorus (P)-Total		4.41	4.77		mg/L	7.8	20	26-MAY-11
WG1284042-5	DUP	L1008217-5						
Phosphorus (P)-Total		0406	0.285		mg/L	3.2	20	26-MAY-11
WG1284042-2	LCS							
Phosphorus (P)-Total			102		%		80-120	26-MAY-11
WG1284042-1	MB							
Phosphorus (P)-Total			<0.010		mg/L		0.01	26-MAY-11
WG1284042-6	MS	L1007985-2						
Phosphorus (P)-Total			100		%		70-130	26-MAY-11
WG1284042-7	MS	L1008004-1						
Phosphorus (P)-Total			95		%		70-130	26-MAY-11
WG1284042-8	MS	L1008005-6						
Phosphorus (P)-Total			91		%		70-130	26-MAY-11
PH-WP		Water						
Batch	R2194654							
WG1285720-4	DUP	L1008444-1						
pH		7.46	7.47	J	pH units	0.01	0.2	26-MAY-11
WG1285720-5	DUP	L1008005-3						
pH		8.17	8.16	J	pH units	0.00	0.2	26-MAY-11
WG1285720-2	LCS							
pH			7.42		pH units		7.3-7.5	26-MAY-11



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SIO2-L-COL-WP								
	Water							
Batch	R2196447							
WG1287600-3	DUP	L1008007-3						
Silica, Reactive (as SiO2)		10.0	9.97		mg/L	0.51	20	31-MAY-11
WG1287600-4	DUP	L1009761-1						
Silica, Reactive (as SiO2)		3.49	3.46		mg/L	0.90	20	31-MAY-11
WG1287600-2	LCS							
Silica, Reactive (as SiO2)			102		%		85-115	31-MAY-11
WG1287600-1	MB							
Silica, Reactive (as SiO2)			<0.0050		mg/L		0.005	31-MAY-11
WG1287600-5	MS	L1007855-5						
Silica, Reactive (as SiO2)			105		%		75-125	31-MAY-11
WG1287600-6	MS	L1007954-5						
Silica, Reactive (as SiO2)			104		%		75-125	31-MAY-11
SO4-IC-ED								
	Water							
Batch	R2193628							
WG1284220-7	DUP	L1008005-7						
Sulfate (SO4)		<0.50	<0.50	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Sulfate (SO4)			99		%		85-115	25-MAY-11
WG1284220-1	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	25-MAY-11
WG1284220-8	MS	L1008005-7						
Sulfate (SO4)			110		%		75-125	26-MAY-11
SOLIDS-TDS-WP								
	Water							
Batch	R2194642							
WG1284870-2	CVS							
Total Dissolved Solids			101		%		85-115	26-MAY-11
WG1284870-3	DUP	L1008006-1						
Total Dissolved Solids		320	316		mg/L	1.3	20	26-MAY-11
WG1284870-7	DUP	L1009203-1						
Total Dissolved Solids		1310	1390		mg/L	5.9	20	26-MAY-11
WG1284870-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	26-MAY-11
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2194642							
WG1284870-2	CVS							
Total Suspended Solids			90		%		85-115	26-MAY-11
WG1284870-3	DUP	L1008006-1						



Quality Control Report

Workorder: L1008005

Report Date: 09-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2194642							
WG1284870-3	DUP	L1008006-1						
Total Suspended Solids		14.0	13.0		mg/L	7.4	400	26-MAY-11
WG1284870-5	DUP	L1008697-1						
Total Suspended Solids		64.0	62.0		mg/L	3.2	20	26-MAY-11
WG1284870-6	DUP	L1009012-3						
Total Suspended Solids		15.0	15.0		mg/L	0.0	400	26-MAY-11
WG1284870-7	DUP	L1009203-1						
Total Suspended Solids		370	325		mg/L	13	20	26-MAY-11
WG1284870-1	MB							
Total Suspended Solids			<5.0		mg/L		5	26-MAY-11
TURBIDITY-WP								
	Water							
Batch	R2193149							
WG1284008-3	DUP	L1007853-1						
Turbidity		16.4	16.5		NTU	0.61	15	24-MAY-11
WG1284008-2	LCS							
Turbidity			101		%		85-115	24-MAY-11
WG1284008-1	MB							
Turbidity			<0.10		NTU		0.1	24-MAY-11

Quality Control Report

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L1008005

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	23-MAY-11 10:00	26-MAY-11 11:00	0.25	73	hours	EHTR-FM
	2	23-MAY-11 11:00	26-MAY-11 11:00	0.25	72	hours	EHTR-FM
	3	23-MAY-11 11:45	26-MAY-11 11:00	0.25	71	hours	EHTR-FM
	4	23-MAY-11 13:45	26-MAY-11 11:00	0.25	69	hours	EHTR-FM
	5	23-MAY-11 12:20	26-MAY-11 11:00	0.25	71	hours	EHTR-FM
	6	23-MAY-11 14:20	26-MAY-11 11:00	0.25	69	hours	EHTR-FM
	7	23-MAY-11 15:00	26-MAY-11 11:00	0.25	68	hours	EHTR-FM

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1008005 were received on 24-MAY-11 09:10.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



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

COC #

L1008005

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Report To
 Company: AECOM -W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone: _____ Fax: _____
 Email 1: cliff.samoiloff@aecom.com
 Email 2: shawna.kiartanson@aecom.com
 Email 3: _____

Service Requested (Rush for routine analysis subject to availability)
 Regular (Standard Turnaround Times - Business Days)
 Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
 Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
 Same Day or Weekend Emergency - Contact ALS to Confirm TAT

Analysis Request
 Please indicate below Filtered, Preserved or both (F, P, F/P)

Sample #	Lab Work Order # (lab use only)	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Chlorophylla / Pheophytin	Acidity, Colour, Turbidity	Anions, Br, silica, ph, ec, Alk	NH3, TKN, PT	CBOD	Solids (TSS, TDS)	Metals & Hg - Total	Metals & Hg - Dissolved	TOC, DOC	Number of Containers
		ANB-01	23 MAY 11	10:00	water	X	X	X	X	X	X	X	X	X	6
		ANB-02		11:00		X	X	X	X	X	X	X	X	X	6
		ANB-03		11:45		X	X	X	X	X	X	X	X	X	6
		ANB-04		13:45		X	X	X	X	X	X	X	X	X	6
		ANB-05		18:00		X	X	X	X	X	X	X	X	X	6
		ANB-06	23 MAY 11	14:20		X	X	X	X	X	X	X	X	X	6
		TRB-04	23 MAY 11	15:00		X	X	X	X	X	X	X	X	X	6

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)
 Released by: Jennie Ryan Date (dd-mm-yy): 23 May 11 Time (hh-mm): 1630
SHIPMENT RECEPTION (lab use only)
 Received by: [Signature] Date: May 24 Time: 09:10 Temperature: 58 °C
SHIPMENT VERIFICATION (lab use only)
 Verified by: _____ Date: _____ Time: _____ Observations: Yes / No ? If Yes add SIF



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 24-MAY-11
Report Date: 09-JUN-11 12:09 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1008006
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-200
Legal Site Desc:
C of C Numbers:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008006-1 ANC-02							
Sampled By: CLIENT on 22-MAY-11 @ 13:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	1.6		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		03-JUN-11	R2199113
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	1.5		1.0	mg/L	25-MAY-11	30-MAY-11	R2195641
Chloride (Cl)	15.5		0.50	mg/L		26-MAY-11	R2193628
Colour, True	13.5		5.0	CU		26-MAY-11	R2194632
Dissolved Organic Carbon	9.9		1.0	mg/L		04-JUN-11	R2199025
Fluoride (F)	0.182		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	218		0.30	mg/L		26-MAY-11	
Hardness (as CaCO3)	212		0.20	mg/L		27-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	0.060		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.017		0.010	mg/L		26-MAY-11	R2195446
Silica, Reactive (as SiO2)	0.258	DLA	0.050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	163		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	320		5.0	mg/L		26-MAY-11	R2194642
Total Kjeldahl Nitrogen	0.60		0.20	mg/L	24-MAY-11	30-MAY-11	R2196028
Total Organic Carbon	9.6		1.0	mg/L		04-JUN-11	R2199025
Total Suspended Solids	14.0		5.0	mg/L		26-MAY-11	R2194642
Turbidity	3.42		0.10	NTU		24-MAY-11	R2193149
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.269		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	0.0107		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00376		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0201		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	0.024		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	0.000110		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	73.2		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	0.00024		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	0.00704		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	0.34		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	0.000382		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0051		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	8.56		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	0.0202		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	0.00090		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	6.01		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.00396		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	0.0013		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	0.641		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	10.3		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.195		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008006-1 ANC-02							
Sampled By: CLIENT on 22-MAY-11 @ 13:00							
Matrix: WATER							
Total Metals by ICP-MS							
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.0107		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	0.00065		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	0.0717		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0071		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.0112		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00321		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0178		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	0.021		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	24-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	73.2		0.050	mg/L	24-MAY-11	26-MAY-11	R2194558
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00276		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	24-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0047		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	7.15		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	0.00245		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	0.00084		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	5.10		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.00311		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	0.0014		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	0.151		0.050	mg/L	24-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	8.76		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	0.179		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	0.00069		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	0.00026		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	0.0405		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	24-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	4.28		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008006-1 ANC-02							
Sampled By: CLIENT on 22-MAY-11 @ 13:00							
Matrix: WATER							
Chlorophyll a, Pheophytin by fluorometry							
Phaeophytin a	3.90		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO ₃)	53.6		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO ₃)	65.3		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO ₃)	<0.60		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	<0.40		0.40	mg/L		26-MAY-11	R2194654
Conductivity							
Conductivity	492		0.40	umhos/cm		26-MAY-11	R2194654
pH							
pH	8.02		0.10	pH units		26-MAY-11	R2194654

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution
DLM	Detection Limit Adjusted For Sample Matrix Effects
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B
BR-IC-ED	Water	Bromide by IC	APHA 4110 B-ION CHROMATOGRAPHY
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP

Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO₃⁻ and H₂CO₃ endpoints indicated electrometrically.

This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
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This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

CHL,PHEO-FLUORO-WP	Water	Chlorophyll a, Pheophytin by fluorometry	EPA 445.0
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Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification.

CL-IC-ED	Water	Chloride by IC	APHA 4110 B-ION CHROMATOGRAPHY
COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR

This analysis is carried out using procedures adapted from APHA 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. Colour is pH dependent. Unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit.

CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
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A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.

EC-WP	Water	Conductivity	APHA 2510B
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Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.

ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	HARDNESS CALCULATED
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
F-IC-ED	Water	Fluoride by IC	APHA 4110 B-ION CHROMATOGRAPHY
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
		Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
		Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
		Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.	
N2N3-COL-WP	Water	Nitrate + Nitrite	APHA4500;2005/LACHAT;1997,1999
		The sample is passed through a column containing cadmium granules coated with copper sulphate, reducing nitrate to nitrite. The resulting nitrites plus those originally present in the sample are reacted with sulfanilamide (an organic amine) to form the diazonium salt which is coupled in an acidic solution with N-(1-naphthyl)-ethylenediamine dihydrochloride, to form azo dye. The azo dye intensity is measured by a colorimeter at 520 nm. The Omnion software compares the sample peak areas to a calibration curve and reports the concentration of nitrate-nitrite in the sample as nitrogen.	
		Reference: APHA, AWWA, WPCF, Standard Methods for the Examination of Water and Wastewaters, 20th Edition, Washington, 1998. Method 4500-NQ3-I	
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
		Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.	
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
		This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourmetrically after persulphate digestion of the sample.	
PH-WP	Water	pH	APHA 4500H
		The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.	
SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2
		This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.	
SO4-IC-ED	Water	Sulfate by IC	APHA 4110 B-ION CHROMATOGRAPHY
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540C
		The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.	
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540D

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.			
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B
A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
ED	ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1008006

Report Date: 09-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R2200530							
WG1292189-2	CVS							
Acidity (as CaCO3)			104		%		85-115	03-JUN-11
WG1292189-3	DUP	L1007855-2						
Acidity (as CaCO3)		1.6	1.6		mg/L	0.32	400	03-JUN-11
WG1292189-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	03-JUN-11
ALK-TOT-WP								
	Water							
Batch	R2194654							
WG1285720-4	DUP	L1008444-1						
Alkalinity, Total (as CaCO3)		37.9	37.8		mg/L	0.21	20	26-MAY-11
Bicarbonate (HCO3)		46.2	46.1		mg/L	0.21	25	26-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	26-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	26-MAY-11
WG1285720-5	DUP	L1008005-3						
Alkalinity, Total (as CaCO3)		70.0	70.0		mg/L	0.087	20	26-MAY-11
Bicarbonate (HCO3)		85.4	85.3		mg/L	0.087	25	26-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	26-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	26-MAY-11
BR-IC-ED								
	Water							
Batch	R2193628							
WG1284220-3	DUP	L1007494-186						
Bromide (Br)		1.2	1.2		mg/L	1.7	20	25-MAY-11
WG1284220-5	DUP	L1007494-401						
Bromide (Br)		1.4	1.4		mg/L	2.0	20	25-MAY-11
WG1284220-7	DUP	L1008005-7						
Bromide (Br)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Bromide (Br)			109		%		85-115	25-MAY-11
WG1284220-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	25-MAY-11
WG1284220-4	MS	L1007494-186						
Bromide (Br)			92		%		75-125	25-MAY-11
WG1284220-6	MS	L1007494-401						
Bromide (Br)			N/A	MS-B	%		-	25-MAY-11
WG1284220-8	MS	L1008005-7						
Bromide (Br)			104		%		75-125	26-MAY-11
C-DIS-ORG-WP								
	Water							



Quality Control Report

Workorder: L1008006

Report Date: 09-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-DIS-ORG-WP		Water						
Batch	R2199025							
WG1290529-2	CVS							
Dissolved Organic Carbon			103		%		80-120	03-JUN-11
C-TOT-ORG-WP		Water						
Batch	R2199025							
WG1290529-2	CVS							
Total Organic Carbon			101		%		80-120	03-JUN-11
WG1290529-3	DUP	L1008172-1						
Total Organic Carbon			17.7	17.1	mg/L	3.3	20	03-JUN-11
WG1290529-1	MB							
Total Organic Carbon			<1.0		mg/L		1	03-JUN-11
CHL,PHEO-FLUORO-WP		Water						
Batch	R2193661							
WG1284255-1	CVS							
Chlorophyll a			80		%		65-135	25-MAY-11
WG1284255-2	CVS							
Chlorophyll a			101		%		65-135	25-MAY-11
WG1284251-2	DUP	L1007855-1						
Chlorophyll a			2.81	3.71	ug/L	28	35	25-MAY-11
Phaeophytin a			2.68	3.22	ug/L	18	35	25-MAY-11
WG1284251-3	DUP	L1008005-2						
Chlorophyll a			3.19	3.24	ug/L	1.6	35	25-MAY-11
Phaeophytin a			3.30	3.20	ug/L	3.1	35	25-MAY-11
CL-IC-ED		Water						
Batch	R2193628							
WG1284220-7	DUP	L1008005-7						
Chloride (Cl)			<0.50	<0.50	mg/L	RPD-NA	20	26-MAY-11
WG1284220-2	LCS							
Chloride (Cl)			98		%		85-115	25-MAY-11
WG1284220-1	MB							
Chloride (Cl)			<0.50		mg/L		0.5	25-MAY-11
WG1284220-8	MS	L1008005-7						
Chloride (Cl)			108		%		75-125	26-MAY-11
COLOUR-TRUE-WP		Water						



Quality Control Report

Workorder: L1008006

Report Date: 09-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
COLOUR-TRUE-WP		Water						
Batch	R2194632							
WG1285688-3	DUP	L1004360-1						
Colour, True		42.4	43.9		CU	3.5	20	26-MAY-11
WG1285688-4	DUP	L1008712-1						
Colour, True		32.7	33.5		CU	2.3	20	26-MAY-11
WG1285688-1	MB							
Colour, True			<5.0		CU		5	26-MAY-11
CONSULT-BOD-CBOD-WP		Water						
Batch	R2195641							
WG1284114-3	DUP	L1008005-1						
BOD Carbonaceous		1.5	1.6		mg/L	6.7	400	30-MAY-11
WG1284114-4	DUP	L1008007-3						
BOD Carbonaceous		<1.0	<1.0	RPD-NA	mg/L	N/A	400	30-MAY-11
WG1284114-2	IRM	61-GG						
BOD Carbonaceous			106		%		85-115	30-MAY-11
WG1284114-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	30-MAY-11
EC-WP		Water						
Batch	R2194654							
WG1285720-1	CVS							
Conductivity			97		%		90-110	26-MAY-11
WG1285720-5	DUP	L1008005-3						
Conductivity		159	158		umhos/cm	0.69	10	26-MAY-11
F-IC-ED		Water						
Batch	R2193628							
WG1284220-3	DUP	L1007494-186						
Fluoride (F)		4.13	4.05		mg/L	2.1	20	25-MAY-11
WG1284220-5	DUP	L1007494-401						
Fluoride (F)		1.99	1.98		mg/L	0.45	20	25-MAY-11
WG1284220-7	DUP	L1008005-7						
Fluoride (F)		<0.050	<0.050	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Fluoride (F)			106		%		85-115	25-MAY-11
WG1284220-1	MB							
Fluoride (F)			<0.050		mg/L		0.05	25-MAY-11
WG1284220-4	MS	L1007494-186						
Fluoride (F)			N/A	MS-B	%		-	25-MAY-11
WG1284220-6	MS	L1007494-401						



Quality Control Report

Workorder: L1008006

Report Date: 09-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-ED		Water						
Batch	R2193628							
WG1284220-6	MS	L1007494-401						
Fluoride (F)			N/A	MS-B	%		-	25-MAY-11
WG1284220-8	MS	L1008005-7						
Fluoride (F)			120		%		75-125	26-MAY-11
HG-D-CVAF-WP		Water						
Batch	R2194712							
WG1285755-3	DUP	L1007855-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1285755-5	DUP	L1008007-5						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1285755-2	LCS							
Mercury (Hg)-Dissolved			98		%		80-120	26-MAY-11
Mercury (Hg)-Dissolved			98		%		80-120	26-MAY-11
WG1285754-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
WG1285755-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
WG1285755-4	MS	L1007855-1						
Mercury (Hg)-Dissolved			110		%		70-130	26-MAY-11
Mercury (Hg)-Dissolved			110		%		70-130	26-MAY-11
WG1285755-6	MS	L1008007-5						
Mercury (Hg)-Dissolved			93		%		70-130	26-MAY-11
Mercury (Hg)-Dissolved			93		%		70-130	26-MAY-11
HG-T-CVAF-WP		Water						
Batch	R2194078							
WG1285021-3	DUP	L1007210-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
WG1285021-5	DUP	L1008005-5						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
WG1285021-2	LCS							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
	Water							
Batch	R2194078							
WG1285021-2	LCS							
Mercury (Hg)-Total			88		%		80-120	25-MAY-11
Mercury (Hg)-Total			88		%		80-120	25-MAY-11
WG1285021-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	25-MAY-11
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	25-MAY-11
WG1285021-4	MS	L1006894-1						
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
WG1285021-6	MS	L1008005-5						
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
MET-D-L-MS-WP								
	Water							
Batch	R2193987							
WG1284822-4	DUP	WG1284822-3						
Aluminum (Al)-Dissolved		0.0298	0.0288		mg/L	3.3	20	26-MAY-11
Antimony (Sb)-Dissolved		0.00364	0.00361		mg/L	0.86	20	26-MAY-11
Arsenic (As)-Dissolved		0.00377	0.00368		mg/L	2.6	20	26-MAY-11
Barium (Ba)-Dissolved		0.0252	0.0256		mg/L	1.6	20	26-MAY-11
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Boron (B)-Dissolved		0.026	0.028		mg/L	6.0	400	26-MAY-11
Cadmium (Cd)-Dissolved		0.00326	0.00329		mg/L	0.92	20	26-MAY-11
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Chromium (Cr)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	26-MAY-11
Cobalt (Co)-Dissolved		0.00105	0.00102		mg/L	2.8	20	26-MAY-11
Copper (Cu)-Dissolved		0.0293	0.0293		mg/L	0.16	20	26-MAY-11
Iron (Fe)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	26-MAY-11
Lead (Pb)-Dissolved		0.000357	0.000355		mg/L	0.56	400	26-MAY-11
Lithium (Li)-Dissolved		0.0072	0.0080		mg/L	10	400	26-MAY-11
Magnesium (Mg)-Dissolved		8.79	8.62		mg/L	2.0	20	26-MAY-11
Manganese (Mn)-Dissolved		0.0681	0.0682		mg/L	0.11	20	26-MAY-11
Molybdenum (Mo)-Dissolved		0.00365	0.00364		mg/L	0.30	20	26-MAY-11
Nickel (Ni)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	26-MAY-11
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R2193987							
WG1284822-4	DUP	WG1284822-3						
Potassium (K)-Dissolved		5.88	5.81		mg/L	1.2	20	26-MAY-11
Rubidium (Rb)-Dissolved		0.00645	0.00637		mg/L	1.2	20	26-MAY-11
Selenium (Se)-Dissolved		0.0149	0.0143		mg/L	4.0	20	26-MAY-11
Silicon (Si)-Dissolved		1.17	1.20		mg/L	2.5	20	26-MAY-11
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Sodium (Na)-Dissolved		254	258		mg/L	1.6	20	26-MAY-11
Strontium (Sr)-Dissolved		1.03	1.02		mg/L	1.1	20	26-MAY-11
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	26-MAY-11
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Titanium (Ti)-Dissolved		0.00139	0.00128		mg/L	8.3	20	26-MAY-11
Tungsten (W)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Vanadium (V)-Dissolved		0.00047	0.00049		mg/L	3.7	400	26-MAY-11
Zinc (Zn)-Dissolved		0.423	0.425		mg/L	0.41	20	26-MAY-11
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	26-MAY-11
WG1284822-2	LCS							
Aluminum (Al)-Dissolved			109		%		80-120	26-MAY-11
Antimony (Sb)-Dissolved			103		%		80-120	26-MAY-11
Arsenic (As)-Dissolved			100		%		80-120	26-MAY-11
Barium (Ba)-Dissolved			102		%		80-120	26-MAY-11
Beryllium (Be)-Dissolved			103		%		80-120	26-MAY-11
Bismuth (Bi)-Dissolved			109		%		80-120	26-MAY-11
Boron (B)-Dissolved			104		%		80-120	26-MAY-11
Cadmium (Cd)-Dissolved			106		%		80-120	26-MAY-11
Cesium (Cs)-Dissolved			100		%		80-120	26-MAY-11
Chromium (Cr)-Dissolved			103		%		80-120	26-MAY-11
Cobalt (Co)-Dissolved			100		%		80-120	26-MAY-11
Copper (Cu)-Dissolved			99		%		80-120	26-MAY-11
Iron (Fe)-Dissolved			99		%		80-120	26-MAY-11
Lead (Pb)-Dissolved			101		%		80-120	26-MAY-11
Lithium (Li)-Dissolved			103		%		80-120	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2193987							
WG1284822-2	LCS							
Magnesium (Mg)-Dissolved			104		%		80-120	26-MAY-11
Manganese (Mn)-Dissolved			101		%		80-120	26-MAY-11
Molybdenum (Mo)-Dissolved			106		%		80-120	26-MAY-11
Nickel (Ni)-Dissolved			99		%		80-120	26-MAY-11
Phosphorus (P)-Dissolved			103		%		80-120	26-MAY-11
Potassium (K)-Dissolved			103		%		80-120	26-MAY-11
Rubidium (Rb)-Dissolved			107		%		80-120	26-MAY-11
Selenium (Se)-Dissolved			101		%		80-120	26-MAY-11
Silicon (Si)-Dissolved			104		%		80-120	26-MAY-11
Silver (Ag)-Dissolved			102		%		80-120	26-MAY-11
Sodium (Na)-Dissolved			104		%		80-120	26-MAY-11
Strontium (Sr)-Dissolved			108		%		80-120	26-MAY-11
Tellurium (Te)-Dissolved			103		%		80-120	26-MAY-11
Thallium (Tl)-Dissolved			111		%		80-120	26-MAY-11
Thorium (Th)-Dissolved			102		%		80-120	26-MAY-11
Tin (Sn)-Dissolved			104		%		80-120	26-MAY-11
Titanium (Ti)-Dissolved			100		%		80-120	26-MAY-11
Tungsten (W)-Dissolved			98		%		80-120	26-MAY-11
Uranium (U)-Dissolved			100		%		80-120	26-MAY-11
Vanadium (V)-Dissolved			103		%		80-120	26-MAY-11
Zinc (Zn)-Dissolved			100		%		80-120	26-MAY-11
Zirconium (Zr)-Dissolved			102		%		80-120	26-MAY-11
WG1284822-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.02	26-MAY-11
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Arsenic (As)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Boron (B)-Dissolved			<0.010		mg/L		0.03	26-MAY-11
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.0002	26-MAY-11
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	26-MAY-11
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R2193987							
WG1284822-1	MB							
Copper (Cu)-Dissolved			<0.00020		mg/L		0.002	26-MAY-11
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	26-MAY-11
Lead (Pb)-Dissolved			<0.000090		mg/L		0.001	26-MAY-11
Lithium (Li)-Dissolved			<0.0020		mg/L		0.01	26-MAY-11
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.05	26-MAY-11
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.001	26-MAY-11
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.002	26-MAY-11
Phosphorus (P)-Dissolved			<0.10		mg/L		0.5	26-MAY-11
Potassium (K)-Dissolved			<0.020		mg/L		0.1	26-MAY-11
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Selenium (Se)-Dissolved			<0.0010		mg/L		0.005	26-MAY-11
Silicon (Si)-Dissolved			<0.050		mg/L		0.3	26-MAY-11
Silver (Ag)-Dissolved			<0.00010		mg/L		0.001	26-MAY-11
Sodium (Na)-Dissolved			<0.020		mg/L		0.05	26-MAY-11
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.005	26-MAY-11
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	26-MAY-11
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0006	26-MAY-11
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Tungsten (W)-Dissolved			<0.00020		mg/L		0.002	26-MAY-11
Uranium (U)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Vanadium (V)-Dissolved			<0.00020		mg/L		0.002	26-MAY-11
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.02	26-MAY-11
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.001	26-MAY-11
MET-T-L-MS-WP								
	Water							
Batch	R2193921							
WG1284274-4	DUP	WG1284274-3						
Aluminum (Al)-Total		0.0423	0.0388		mg/L	8.7	20	25-MAY-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Arsenic (As)-Total		0.00176	0.00169		mg/L	4.1	20	25-MAY-11
Barium (Ba)-Total		0.0117	0.0121		mg/L	2.8	20	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2193921							
WG1284274-4	DUP	WG1284274-3						
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Boron (B)-Total		0.012	<0.010	RPD-NA	mg/L	N/A	400	25-MAY-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	25-MAY-11
Calcium (Ca)-Total		12.2	11.9		mg/L	2.8	20	25-MAY-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Copper (Cu)-Total		0.00052	0.00045		mg/L	14	400	25-MAY-11
Iron (Fe)-Total		0.16	0.14		mg/L	8.3	400	25-MAY-11
Lead (Pb)-Total		0.000099	0.000099		mg/L	0.0	400	25-MAY-11
Magnesium (Mg)-Total		5.22	4.87		mg/L	7.0	20	25-MAY-11
Manganese (Mn)-Total		0.0457	0.0444		mg/L	2.8	20	25-MAY-11
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	25-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	25-MAY-11
Potassium (K)-Total		0.913	0.859		mg/L	6.1	20	25-MAY-11
Rubidium (Rb)-Total		0.00108	0.00106		mg/L	1.8	20	25-MAY-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Silicon (Si)-Total		0.397	0.424		mg/L	6.8	20	25-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Sodium (Na)-Total		1.40	1.36		mg/L	2.3	20	25-MAY-11
Strontium (Sr)-Total		0.0283	0.0280		mg/L	0.93	20	25-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	25-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Titanium (Ti)-Total		0.00038	0.00042		mg/L	10	400	25-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Zinc (Zn)-Total		0.0078	0.0072		mg/L	8.5	400	25-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	25-MAY-11
WG1284274-6	DUP	WG1284274-5						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2193921							
WG1284274-6	DUP	WG1284274-5						
Aluminum (Al)-Total		0.0384	0.0458		mg/L	18	20	25-MAY-11
Antimony (Sb)-Total		0.0148	0.0146		mg/L	1.1	20	25-MAY-11
Arsenic (As)-Total		0.731	0.721		mg/L	1.3	20	25-MAY-11
Barium (Ba)-Total		0.0365	0.0356		mg/L	2.5	20	25-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Boron (B)-Total		0.041	0.043		mg/L	5.5	400	25-MAY-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	25-MAY-11
Calcium (Ca)-Total		68.7	66.1		mg/L	3.8	20	25-MAY-11
Cesium (Cs)-Total		0.00026	0.00025		mg/L	2.4	400	25-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Cobalt (Co)-Total		0.00069	0.00072		mg/L	5.0	400	25-MAY-11
Copper (Cu)-Total		0.00167	0.00170		mg/L	1.7	20	25-MAY-11
Iron (Fe)-Total		0.53	0.54		mg/L	1.2	20	25-MAY-11
Lead (Pb)-Total		0.000290	0.000288		mg/L	0.69	400	25-MAY-11
Lithium (Li)-Total		0.0226	0.0232		mg/L	2.8	20	25-MAY-11
Magnesium (Mg)-Total		27.5	26.3		mg/L	4.3	20	25-MAY-11
Manganese (Mn)-Total		0.126	0.125		mg/L	0.79	20	25-MAY-11
Molybdenum (Mo)-Total		0.00089	0.00094		mg/L	6.1	400	25-MAY-11
Nickel (Ni)-Total		0.0139	0.0136		mg/L	2.3	20	25-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	25-MAY-11
Potassium (K)-Total		5.66	5.70		mg/L	0.79	20	25-MAY-11
Rubidium (Rb)-Total		0.00603	0.00625		mg/L	3.6	20	25-MAY-11
Selenium (Se)-Total		0.0036	0.0035		mg/L	1.9	400	25-MAY-11
Silicon (Si)-Total		1.44	1.42		mg/L	1.9	20	25-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Sodium (Na)-Total		43.9	42.5		mg/L	3.4	20	25-MAY-11
Strontium (Sr)-Total		0.807	0.831		mg/L	3.0	20	25-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	25-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Titanium (Ti)-Total		0.00183	0.00192		mg/L			25-MAY-11



Quality Control Report

Workorder: L1008006

Report Date: 09-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2193921							
WG1284274-6	DUP	WG1284274-5						
Titanium (Ti)-Total		0.00183	0.00192		mg/L	4.6	20	25-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Uranium (U)-Total		0.00032	0.00032		mg/L	0.0	400	25-MAY-11
Vanadium (V)-Total		0.00075	0.00072		mg/L	3.8	400	25-MAY-11
Zinc (Zn)-Total		0.0119	0.0118		mg/L	0.87	400	25-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	25-MAY-11
WG1284274-2	LCS							
Aluminum (Al)-Total			108		%		80-120	25-MAY-11
Antimony (Sb)-Total			102		%		80-120	25-MAY-11
Arsenic (As)-Total			102		%		80-120	25-MAY-11
Barium (Ba)-Total			101		%		80-120	25-MAY-11
Beryllium (Be)-Total			105		%		80-120	25-MAY-11
Bismuth (Bi)-Total			113		%		80-120	25-MAY-11
Boron (B)-Total			105		%		80-120	25-MAY-11
Cadmium (Cd)-Total			104		%		80-120	25-MAY-11
Calcium (Ca)-Total			103		%		80-120	25-MAY-11
Cesium (Cs)-Total			103		%		80-120	25-MAY-11
Chromium (Cr)-Total			98		%		80-120	25-MAY-11
Cobalt (Co)-Total			100		%		80-120	25-MAY-11
Copper (Cu)-Total			101		%		80-120	25-MAY-11
Iron (Fe)-Total			95		%		80-120	25-MAY-11
Lead (Pb)-Total			100		%		80-120	25-MAY-11
Lithium (Li)-Total			105		%		80-120	25-MAY-11
Magnesium (Mg)-Total			105		%		80-120	25-MAY-11
Manganese (Mn)-Total			102		%		80-120	25-MAY-11
Molybdenum (Mo)-Total			105		%		80-120	25-MAY-11
Nickel (Ni)-Total			103		%		80-120	25-MAY-11
Phosphorus (P)-Total			104		%		80-120	25-MAY-11
Potassium (K)-Total			103		%		80-120	25-MAY-11
Rubidium (Rb)-Total			103		%		80-120	25-MAY-11
Selenium (Se)-Total			100		%		80-120	25-MAY-11
Silicon (Si)-Total			108		%		80-120	25-MAY-11
Silver (Ag)-Total			104		%		80-120	25-MAY-11



Quality Control Report

Workorder: L1008006

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2193921							
WG1284274-2	LCS							
Sodium (Na)-Total			107		%		80-120	25-MAY-11
Strontium (Sr)-Total			106		%		80-120	25-MAY-11
Tellurium (Te)-Total			105		%		80-120	25-MAY-11
Thallium (Tl)-Total			114		%		80-120	25-MAY-11
Thorium (Th)-Total			99		%		70-130	25-MAY-11
Tin (Sn)-Total			105		%		80-120	25-MAY-11
Titanium (Ti)-Total			105		%		80-120	25-MAY-11
Tungsten (W)-Total			98		%		80-120	25-MAY-11
Uranium (U)-Total			95		%		80-120	25-MAY-11
Vanadium (V)-Total			104		%		80-120	25-MAY-11
Zinc (Zn)-Total			99		%		80-120	25-MAY-11
Zirconium (Zr)-Total			103		%		80-120	25-MAY-11
WG1284274-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.02	25-MAY-11
Antimony (Sb)-Total			<0.00020		mg/L		0.001	25-MAY-11
Arsenic (As)-Total			<0.00020		mg/L		0.001	25-MAY-11
Barium (Ba)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Beryllium (Be)-Total			<0.00020		mg/L		0.001	25-MAY-11
Bismuth (Bi)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Boron (B)-Total			<0.010		mg/L		0.03	25-MAY-11
Cadmium (Cd)-Total			<0.000010		mg/L		0.0002	25-MAY-11
Calcium (Ca)-Total			<0.10		mg/L		0.2	25-MAY-11
Cesium (Cs)-Total			<0.00010		mg/L		0.0005	25-MAY-11
Chromium (Cr)-Total			<0.0010		mg/L		0.002	25-MAY-11
Cobalt (Co)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Copper (Cu)-Total			<0.00020		mg/L		0.002	25-MAY-11
Iron (Fe)-Total			<0.10		mg/L		0.1	25-MAY-11
Lead (Pb)-Total			<0.000090		mg/L		0.001	25-MAY-11
Lithium (Li)-Total			<0.0020		mg/L		0.002	25-MAY-11
Magnesium (Mg)-Total			<0.010		mg/L		0.05	25-MAY-11
Manganese (Mn)-Total			<0.00030		mg/L		0.001	25-MAY-11
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Nickel (Ni)-Total			<0.0020		mg/L		0.002	25-MAY-11
Phosphorus (P)-Total			<0.20		mg/L		0.5	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2193921							
WG1284274-1 MB								
Potassium (K)-Total			<0.020		mg/L		0.1	25-MAY-11
Rubidium (Rb)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Selenium (Se)-Total			<0.0010		mg/L		0.005	25-MAY-11
Silicon (Si)-Total			<0.050		mg/L		0.3	25-MAY-11
Silver (Ag)-Total			<0.00010		mg/L		0.001	25-MAY-11
Sodium (Na)-Total			<0.030		mg/L		0.05	25-MAY-11
Strontium (Sr)-Total			<0.00010		mg/L		0.0005	25-MAY-11
Tellurium (Te)-Total			<0.00020		mg/L		0.001	25-MAY-11
Thallium (Tl)-Total			<0.00010		mg/L		0.005	25-MAY-11
Thorium (Th)-Total			<0.00010		mg/L		0.0001	25-MAY-11
Tin (Sn)-Total			<0.00020		mg/L		0.0006	25-MAY-11
Titanium (Ti)-Total			<0.00020		mg/L		0.001	25-MAY-11
Tungsten (W)-Total			<0.0010		mg/L		0.002	25-MAY-11
Uranium (U)-Total			<0.00010		mg/L		0.0005	25-MAY-11
Vanadium (V)-Total			<0.00020		mg/L		0.002	25-MAY-11
Zinc (Zn)-Total			<0.0050		mg/L		0.02	25-MAY-11
Zirconium (Zr)-Total			<0.00040		mg/L		0.001	25-MAY-11
N-TOTKJ-WP		Water						
Batch	R2196028							
WG1287257-1 CVS								
Total Kjeldahl Nitrogen			96		%		90-110	30-MAY-11
WG1284271-4 DUP	L1007954-1							
Total Kjeldahl Nitrogen		0.94	0.91		mg/L	3.6	20	30-MAY-11
WG1284271-7 DUP	L1008004-1							
Total Kjeldahl Nitrogen		0.52	0.51		mg/L	1.9	20	30-MAY-11
WG1284271-2 LCS								
Total Kjeldahl Nitrogen			96		%		75-125	30-MAY-11
WG1284271-1 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	30-MAY-11
WG1284271-5 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	30-MAY-11
WG1284271-3 MS	L1007954-1							
Total Kjeldahl Nitrogen			91		%		70-130	30-MAY-11
WG1284271-6 MS	L1008004-1							
Total Kjeldahl Nitrogen			95		%		70-130	30-MAY-11



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N2N3-COL-WP		Water						
Batch	R2198818							
WG1290299-3	DUP	L1006708-1						
Nitrate and Nitrite as N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	04-JUN-11
WG1290299-5	DUP	L1009506-1						
Nitrate and Nitrite as N		1.65	1.65		mg/L	0.22	20	04-JUN-11
WG1290299-7	DUP	L1007954-1						
Nitrate and Nitrite as N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	04-JUN-11
WG1290299-9	DUP	L1008172-2						
Nitrate and Nitrite as N		0.159	0.159		mg/L	0.38	20	04-JUN-11
WG1290299-2	LCS							
Nitrate and Nitrite as N			100		%		85-115	04-JUN-11
WG1290299-1	MB							
Nitrate and Nitrite as N			<0.050		mg/L		0.05	04-JUN-11
WG1290299-10	MS	L1008172-2						
Nitrate and Nitrite as N			85		%		75-125	04-JUN-11
WG1290299-6	MS	L1009506-1						
Nitrate and Nitrite as N			N/A	MS-B	%		-	04-JUN-11
WG1290299-8	MS	L1007954-1						
Nitrate and Nitrite as N			97		%		75-125	04-JUN-11
NH3-COL-WP		Water						
Batch	R2199113							
WG1290617-3	DUP	L1008109-6						
Ammonia as N		4.96	4.89		mg/L	1.6	20	03-JUN-11
WG1290617-2	LCS							
Ammonia as N			100		%		85-115	03-JUN-11
WG1290617-1	MB							
Ammonia as N			<0.050		mg/L		0.05	03-JUN-11
WG1290617-4	MS	L1010351-7						
Ammonia as N			101		%		75-125	03-JUN-11
P-T-COL-WP		Water						
Batch	R2195446							
WG1284042-3	DUP	L1007955-4						
Phosphorus (P)-Total		27.3	28.7		mg/L	5.0	20	26-MAY-11
WG1284042-4	DUP	L1007983-1						
Phosphorus (P)-Total		4.41	4.77		mg/L	7.8	20	26-MAY-11
WG1284042-5	DUP	L1008217-5						
Phosphorus (P)-Total		0406	0.285		mg/L	3.2	20	26-MAY-11
WG1284042-2	LCS							
Phosphorus (P)-Total			102		%		80-120	26-MAY-11



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SO4-IC-ED								
	Water							
Batch	R2193628							
WG1284220-1	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	25-MAY-11
WG1284220-8	MS	L1008005-7						
Sulfate (SO4)			110		%		75-125	26-MAY-11
SOLIDS-TDS-WP								
	Water							
Batch	R2194642							
WG1284870-2	CVS							
Total Dissolved Solids			101		%		85-115	26-MAY-11
WG1284870-3	DUP	L1008006-1						
Total Dissolved Solids		320	316		mg/L	1.3	20	26-MAY-11
WG1284870-7	DUP	L1009203-1						
Total Dissolved Solids		1310	1390		mg/L	5.9	20	26-MAY-11
WG1284870-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	26-MAY-11
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2194642							
WG1284870-2	CVS							
Total Suspended Solids			90		%		85-115	26-MAY-11
WG1284870-3	DUP	L1008006-1						
Total Suspended Solids		14.0	13.0		mg/L	7.4	400	26-MAY-11
WG1284870-5	DUP	L1008697-1						
Total Suspended Solids		64.0	62.0		mg/L	3.2	20	26-MAY-11
WG1284870-6	DUP	L1009012-3						
Total Suspended Solids		15.0	15.0		mg/L	0.0	400	26-MAY-11
WG1284870-7	DUP	L1009203-1						
Total Suspended Solids		370	325		mg/L	13	20	26-MAY-11
WG1284870-1	MB							
Total Suspended Solids			<5.0		mg/L		5	26-MAY-11
TURBIDITY-WP								
	Water							
Batch	R2193149							
WG1284008-3	DUP	L1007853-1						
Turbidity		16.4	16.5		NTU	0.61	15	24-MAY-11
WG1284008-2	LCS							
Turbidity			101		%		85-115	24-MAY-11
WG1284008-1	MB							
Turbidity			<0.10		NTU		0.1	24-MAY-11

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L1008006

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Turbidity	1	22-MAY-11 13:00	24-MAY-11 17:47	48	53	hours	EHTL
pH	1	22-MAY-11 13:00	26-MAY-11 11:00	0.25	94	hours	EHTR-FM
Anions and Nutrients							
Phosphorus, Total	1	22-MAY-11 13:00	24-MAY-11 19:55	48	55	hours	EHTL
Aggregate Organics							
Carbonaceous BOD	1	22-MAY-11 13:00	25-MAY-11 08:00	48	67	hours	EHTL

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1008006 were received on 24-MAY-11 09:10.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



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

COC # 1008006
 Page ___ of ___



Report To Company: AECOM -W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr

Phone: _____ Fax: _____
 Invoice To Same as Report? Yes No
 Hardcopy of Invoice with Report? Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____

Quote #: Q24534
 ALS Contact: _____
 Client / Project Information
 Job #: 60213483-200
 PO / AFE: _____
 LSD: _____

Sample Identification (This description will appear on the report)
ANC-02
 Date (dd-mm-yy): 22 MAY 11
 Time (hh:mm): 1300
 Sampler: _____
 Sample Type: water

Sample #	Chlorophylla / Pheophytin	Acidity, Colour, Turbidity	Anions, Br, silica, ph.ec, Alk	NH3, TKN, PT	CBOD	Solids (TSS, TDS)	Metals & Hg - Total	Metals & Hg - Dissolved	TOC, DOC	Number of Containers
	X	X	X	X	X	X	X	X	X	6

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab. Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: Jenne Ryman Date (dd-mm-yy): 23 MAY 11 Time (hh-mm): 1630
 Received by: OK Date: MAY 24 Time: 09:10 Temperature: 6.5 °C
 SHIPMENT RELEASE (client use) SHIPMENT RECEPTION (lab use only) SHIPMENT VERIFICATION (lab use only)
 Verified by: _____ Date: _____ Time: _____
 Observations: Yes / No? If Yes add SIF



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 24-MAY-11
Report Date: 21-JUN-11 13:38 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1008007
Project P.O. #: NOT SUBMITTED
Job Reference: 60212435-200
Legal Site Desc:
C of C Numbers:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008007-1 STL 01							
Sampled By: CLIENT on 22-MAY-11 @ 15:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	187		25	mg/L		16-JUN-11	R2205780
Ammonia as N	3.69	DLA	0.50	mg/L		03-JUN-11	R2199113
Bromide (Br)	<1.0	DLM	1.0	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	<1.0		1.0	mg/L	25-MAY-11	30-MAY-11	R2195641
Chloride (Cl)	46.8	RRV	0.50	mg/L		26-MAY-11	R2193628
Colour, True	<5.0		5.0	CU		26-MAY-11	R2194632
Dissolved Organic Carbon	<1.0		1.0	mg/L		04-JUN-11	R2199025
Fluoride (F)	0.851	RRV	0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	635		0.30	mg/L		26-MAY-11	
Hardness (as CaCO3)	655		0.20	mg/L		27-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	<0.010		0.010	mg/L		26-MAY-11	R2195446
Silica, Reactive (as SiO2)	9.75	DLA	0.50	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	792	RRV	0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	1210		5.0	mg/L		27-MAY-11	R2195608
Total Kjeldahl Nitrogen	3.92		0.20	mg/L	24-MAY-11	30-MAY-11	R2196028
Total Organic Carbon	<1.0		1.0	mg/L		04-JUN-11	R2199025
Total Suspended Solids	<5.0		5.0	mg/L		27-MAY-11	R2195608
Turbidity	0.24		0.10	NTU		24-MAY-11	R2193149
Total Metals by ICP-MS							
Aluminum (Al)-Total	20.7		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00063		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0119		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	0.00044		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	0.034		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	0.00455		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	129		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	0.00012		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	0.240		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	0.249		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	12.2		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	0.00229		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0412		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	76.0		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	2.93		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	0.0345		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	6.70		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.0116		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	4.36		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	22.3		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.281		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008007-1 STL 01							
Sampled By: CLIENT on 22-MAY-11 @ 15:00							
Matrix: WATER							
Total Metals by ICP-MS							
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00222		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	0.00013		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	5.69		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	19.7		0.0020	mg/L	24-MAY-11	26-MAY-11	R2194558
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00065		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0115		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	0.00035		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	0.030		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	0.00437		0.000010	mg/L	24-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	132		0.050	mg/L	24-MAY-11	26-MAY-11	R2194558
Cesium (Cs)-Dissolved	0.00012		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	0.233		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.233		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	11.0		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	0.00233		0.000090	mg/L	24-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0353		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	78.9		0.010	mg/L	24-MAY-11	26-MAY-11	R2194558
Manganese (Mn)-Dissolved	2.98		0.00010	mg/L	24-MAY-11	26-MAY-11	R2194558
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	0.0315		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	5.62		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.0102		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	4.39		0.050	mg/L	24-MAY-11	26-MAY-11	R2194558
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	21.8		0.020	mg/L	24-MAY-11	26-MAY-11	R2194558
Strontium (Sr)-Dissolved	0.249		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	0.00239		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	0.00013		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	5.89		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	24-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008007-1 STL 01 Sampled By: CLIENT on 22-MAY-11 @ 15:00 Matrix: WATER							
Chlorophyll a, Pheophytin by fluorometry Phaeophytin a	0.51	DLB	0.20	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	See Comment		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	See Comment		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	See Comment		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	See Comment		0.40	mg/L		26-MAY-11	R2194654
Note: The pH of this sample is less than 4.5 pH units, therefore a result for Alkalinity is not reported.							
Conductivity							
Conductivity	1640		0.40	umhos/cm		26-MAY-11	R2194654
pH							
pH	3.19		0.10	pH units		26-MAY-11	R2194654
L1008007-2 STL 02 Sampled By: CLIENT on 22-MAY-11 @ 16:00 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	195		25	mg/L		16-JUN-11	R2205780
Ammonia as N	3.63	DLA	0.50	mg/L		03-JUN-11	R2199113
Bromide (Br)	<1.0	DLM	1.0	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	<1.0		1.0	mg/L	25-MAY-11	30-MAY-11	R2195641
Chloride (Cl)	46.7	RRV	0.50	mg/L		26-MAY-11	R2193628
Colour, True	5.2		5.0	CU		26-MAY-11	R2194632
Dissolved Organic Carbon	<1.0		1.0	mg/L		04-JUN-11	R2199025
Fluoride (F)	0.861		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	633		0.20	mg/L		27-MAY-11	
Hardness (as CaCO3)	653		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	0.010		0.010	mg/L		26-MAY-11	R2195446
Silica, Reactive (as SiO2)	9.78	DLA	0.50	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	798	RRV	0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	1250		5.0	mg/L		27-MAY-11	R2195608
Total Kjeldahl Nitrogen	3.78		0.20	mg/L	24-MAY-11	30-MAY-11	R2196028
Total Organic Carbon	<1.0		1.0	mg/L		04-JUN-11	R2199025
Total Suspended Solids	<5.0		5.0	mg/L		27-MAY-11	R2195608
Turbidity	0.23		0.10	NTU		24-MAY-11	R2193149
Total Metals by ICP-MS							
Aluminum (Al)-Total	24.1		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00064		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0120		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	0.00036		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	0.035		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	0.00479		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	133		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	0.00012		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008007-2 STL 02							
Sampled By: CLIENT on 22-MAY-11 @ 16:00							
Matrix: WATER							
Total Metals by ICP-MS							
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	0.260		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	0.261		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	14.2		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	0.00225		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0409		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	78.2		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	3.14		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	0.0366		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	7.32		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.0116		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	4.77		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	21.3		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.288		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00290		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	0.00014		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	6.12		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	19.5		0.0020	mg/L	24-MAY-11	26-MAY-11	R2194558
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00061		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0112		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	0.00035		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	0.032		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	0.00454		0.000010	mg/L	24-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	129		0.050	mg/L	24-MAY-11	26-MAY-11	R2194558
Cesium (Cs)-Dissolved	0.00011		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	0.247		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.247		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	12.4		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	0.00225		0.000090	mg/L	24-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0384		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	75.7		0.010	mg/L	24-MAY-11	26-MAY-11	R2194558
Manganese (Mn)-Dissolved	2.92		0.00010	mg/L	24-MAY-11	26-MAY-11	R2194558
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	0.0320		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	5.89		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008007-2 STL 02 Sampled By: CLIENT on 22-MAY-11 @ 16:00 Matrix: WATER							
Dissolved Metals by ICP-MS							
Rubidium (Rb)-Dissolved	0.0105		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	4.48		0.050	mg/L	24-MAY-11	26-MAY-11	R2194558
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	21.2		0.020	mg/L	24-MAY-11	26-MAY-11	R2194558
Strontium (Sr)-Dissolved	0.261		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	0.00219		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	0.00014		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	6.09		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	24-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	0.37	DLB	0.20	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	See Comment		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	See Comment		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	See Comment		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	See Comment		0.40	mg/L		26-MAY-11	R2194654
Note: The pH of this sample is less than 4.5 pH units, therefore a result for Alkalinity is not reported.							
Conductivity							
Conductivity	1640		0.40	umhos/cm		26-MAY-11	R2194654
pH							
pH	3.18		0.10	pH units		26-MAY-11	R2194654
L1008007-3 STL 03 Sampled By: CLIENT on 22-MAY-11 @ 17:00 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	193		25	mg/L		16-JUN-11	R2205780
Ammonia as N	3.69	DLA	0.50	mg/L		03-JUN-11	R2199113
Bromide (Br)	<1.0	DLM	1.0	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	<1.0		1.0	mg/L	25-MAY-11	30-MAY-11	R2195641
Chloride (Cl)	47.0	RRV	0.50	mg/L		26-MAY-11	R2193628
Colour, True	5.5		5.0	CU		26-MAY-11	R2194632
Dissolved Organic Carbon	<1.0		1.0	mg/L		06-JUN-11	R2199751
Fluoride (F)	0.863		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	630		0.20	mg/L		27-MAY-11	
Hardness (as CaCO3)	664		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	<0.010		0.010	mg/L		26-MAY-11	R2195446

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008007-3 STL 03							
Sampled By: CLIENT on 22-MAY-11 @ 17:00							
Matrix: WATER							
Silica, Reactive (as SiO2)	10.0	DLA	0.50	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	796	RRV	0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	1240		5.0	mg/L		27-MAY-11	R2195608
Total Kjeldahl Nitrogen	3.96		0.20	mg/L	24-MAY-11	31-MAY-11	R2196670
Total Organic Carbon	<1.0		1.0	mg/L		06-JUN-11	R2199751
Total Suspended Solids	<5.0		5.0	mg/L		27-MAY-11	R2195608
Turbidity	0.45		0.10	NTU		24-MAY-11	R2193149
Total Metals by ICP-MS							
Aluminum (Al)-Total	22.8		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	0.00063		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	0.0119		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	0.00043		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	0.034		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	0.00452		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	134		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	0.00012		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	0.255		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	0.264		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	12.9		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	0.00223		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	0.0402		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	80.2		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	3.00		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	0.0348		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	7.03		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	0.0115		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	4.70		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	22.4		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	0.281		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	0.00329		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	0.00013		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	5.96		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	19.4		0.0020	mg/L	24-MAY-11	26-MAY-11	R2194558
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	0.00061		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	0.0113		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	0.00029		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008007-3 STL 03							
Sampled By: CLIENT on 22-MAY-11 @ 17:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	0.031		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	0.00442		0.000010	mg/L	24-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	127		0.050	mg/L	24-MAY-11	26-MAY-11	R2194558
Cesium (Cs)-Dissolved	0.00011		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	0.239		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.236		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	11.2		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	0.00221		0.000090	mg/L	24-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	0.0367		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	76.1		0.010	mg/L	24-MAY-11	26-MAY-11	R2194558
Manganese (Mn)-Dissolved	2.87		0.00010	mg/L	24-MAY-11	26-MAY-11	R2194558
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	0.0316		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	5.89		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	0.0101		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	4.45		0.050	mg/L	24-MAY-11	26-MAY-11	R2194558
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	21.5		0.020	mg/L	24-MAY-11	26-MAY-11	R2194558
Strontium (Sr)-Dissolved	0.256		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	0.00223		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	0.00013		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	5.81		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	24-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	2.02		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	See Comment		1.0	mg/L		26-MAY-11	R2194654
Bicarbonate (HCO3)	See Comment		2.0	mg/L		26-MAY-11	R2194654
Carbonate (CO3)	See Comment		0.60	mg/L		26-MAY-11	R2194654
Hydroxide (OH)	See Comment		0.40	mg/L		26-MAY-11	R2194654
Note: The pH of this sample is less than 4.5 pH units, therefore a result for Alkalinity is not reported.							
Conductivity							
Conductivity	1640		0.40	umhos/cm		26-MAY-11	R2194654
pH							
pH	3.19		0.10	pH units		26-MAY-11	R2194654
L1008007-4 FLB 01							
Sampled By: CLIENT on 22-MAY-11 @ 16:00							
Matrix: WATER							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008007-4 FLB 01							
Sampled By: CLIENT on 22-MAY-11 @ 16:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	2.0		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		03-JUN-11	R2199113
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	<1.0		1.0	mg/L	25-MAY-11	30-MAY-11	R2195641
Chloride (Cl)	<0.50		0.50	mg/L		26-MAY-11	R2193628
Colour, True	<5.0		5.0	CU		26-MAY-11	R2194632
Dissolved Organic Carbon	<1.0		1.0	mg/L		06-JUN-11	R2199751
Fluoride (F)	<0.050		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	0.30		0.20	mg/L		27-MAY-11	
Hardness (as CaCO3)	0.31		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	<0.010		0.010	mg/L		26-MAY-11	R2195446
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		08-JUN-11	R2200809
Sulfate (SO4)	<0.50		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	<5.0		5.0	mg/L		27-MAY-11	R2195608
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	24-MAY-11	31-MAY-11	R2196670
Total Organic Carbon	<1.0		1.0	mg/L		06-JUN-11	R2199751
Total Suspended Solids	<5.0		5.0	mg/L		27-MAY-11	R2195608
Turbidity	<0.10		0.10	NTU		24-MAY-11	R2193149
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	<0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	0.12		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Copper (Cu)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	<0.10		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	<0.000090		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	<0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	<0.020		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	<0.050		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	<0.030		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008007-4 FLB 01							
Sampled By: CLIENT on 22-MAY-11 @ 16:00							
Matrix: WATER							
Total Metals by ICP-MS							
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	27-MAY-11	R2194558
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	<0.010		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	24-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	0.120		0.050	mg/L	24-MAY-11	27-MAY-11	R2194558
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	0.00026		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	0.00052		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	24-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	24-MAY-11	27-MAY-11	R2194558
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	27-MAY-11	R2194558
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	<0.020		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	24-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	0.045		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	27-MAY-11	R2194558
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	27-MAY-11	R2194558
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	24-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008007-4 FLB 01 Sampled By: CLIENT on 22-MAY-11 @ 16:00 Matrix: WATER Chlorophyll a, Pheophytin by fluorometry Phaeophytin a	<0.20	DLB	0.20	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	2.2		1.0	mg/L		01-JUN-11	R2197288
Bicarbonate (HCO3)	2.7		2.0	mg/L		01-JUN-11	R2197288
Carbonate (CO3)	<0.60		0.60	mg/L		01-JUN-11	R2197288
Hydroxide (OH)	<0.40		0.40	mg/L		01-JUN-11	R2197288
Conductivity							
Conductivity	1.23		0.40	umhos/cm		01-JUN-11	R2197367
pH							
pH	6.20		0.10	pH units		26-MAY-11	R2194654
L1008007-5 TRB 03 Sampled By: CLIENT on 22-MAY-11 @ 17:00 Matrix: WATER Miscellaneous Parameters							
Acidity (as CaCO3)	1.5		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		03-JUN-11	R2199113
Bromide (Br)	<0.10		0.10	mg/L		26-MAY-11	R2193628
BOD Carbonaceous	<1.0		1.0	mg/L	25-MAY-11	30-MAY-11	R2195641
Chloride (Cl)	<0.50		0.50	mg/L		26-MAY-11	R2193628
Colour, True	<5.0		5.0	CU		26-MAY-11	R2194632
Dissolved Organic Carbon	<1.0		1.0	mg/L		06-JUN-11	R2199751
Fluoride (F)	<0.050		0.050	mg/L		26-MAY-11	R2193628
Hardness (as CaCO3)	<0.20		0.20	mg/L		26-MAY-11	
Hardness (as CaCO3)	<0.30		0.30	mg/L		26-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	26-MAY-11	26-MAY-11	R2194712
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	25-MAY-11	25-MAY-11	R2194078
Nitrate and Nitrite as N	<0.050		0.050	mg/L		04-JUN-11	R2198818
Phosphorus (P)-Total	<0.010		0.010	mg/L		26-MAY-11	R2195446
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		31-MAY-11	R2196447
Sulfate (SO4)	<0.50		0.50	mg/L		26-MAY-11	R2193628
Total Dissolved Solids	<5.0		5.0	mg/L		27-MAY-11	R2195608
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	24-MAY-11	31-MAY-11	R2196670
Total Organic Carbon	<1.0		1.0	mg/L		06-JUN-11	R2199751
Total Suspended Solids	<5.0		5.0	mg/L		27-MAY-11	R2195608
Turbidity	<0.10		0.10	NTU		24-MAY-11	R2193149
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Arsenic (As)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Barium (Ba)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Boron (B)-Total	<0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	25-MAY-11	25-MAY-11	R2193921
Calcium (Ca)-Total	<0.10		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008007-5 TRB 03							
Sampled By: CLIENT on 22-MAY-11 @ 17:00							
Matrix: WATER							
Total Metals by ICP-MS							
Copper (Cu)-Total	0.00034		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Iron (Fe)-Total	<0.10		0.10	mg/L	25-MAY-11	25-MAY-11	R2193921
Lead (Pb)-Total	<0.000090		0.000090	mg/L	25-MAY-11	25-MAY-11	R2193921
Lithium (Li)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Magnesium (Mg)-Total	<0.010		0.010	mg/L	25-MAY-11	25-MAY-11	R2193921
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	25-MAY-11	25-MAY-11	R2193921
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	25-MAY-11	25-MAY-11	R2193921
Phosphorus (P)-Total	<0.20		0.20	mg/L	25-MAY-11	25-MAY-11	R2193921
Potassium (K)-Total	<0.020		0.020	mg/L	25-MAY-11	25-MAY-11	R2193921
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Selenium (Se)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Silicon (Si)-Total	<0.050		0.050	mg/L	25-MAY-11	25-MAY-11	R2193921
Silver (Ag)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Sodium (Na)-Total	<0.030		0.030	mg/L	25-MAY-11	25-MAY-11	R2193921
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Thorium (Th)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Tin (Sn)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Tungsten (W)-Total	<0.0010		0.0010	mg/L	25-MAY-11	25-MAY-11	R2193921
Uranium (U)-Total	<0.00010		0.00010	mg/L	25-MAY-11	25-MAY-11	R2193921
Vanadium (V)-Total	<0.00020		0.00020	mg/L	25-MAY-11	25-MAY-11	R2193921
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	25-MAY-11	25-MAY-11	R2193921
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	25-MAY-11	25-MAY-11	R2193921
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Antimony (Sb)-Dissolved	0.00041		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Boron (B)-Dissolved	<0.010		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	24-MAY-11	26-MAY-11	R2193987
Calcium (Ca)-Dissolved	<0.050		0.050	mg/L	24-MAY-11	26-MAY-11	R2193987
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	24-MAY-11	26-MAY-11	R2193987
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	24-MAY-11	26-MAY-11	R2193987
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	24-MAY-11	26-MAY-11	R2193987
Potassium (K)-Dissolved	<0.020		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	24-MAY-11	26-MAY-11	R2193987

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008007-5 TRB 03							
Sampled By: CLIENT on 22-MAY-11 @ 17:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	24-MAY-11	26-MAY-11	R2193987
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	24-MAY-11	26-MAY-11	R2193987
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	24-MAY-11	26-MAY-11	R2193987
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	24-MAY-11	26-MAY-11	R2193987
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	24-MAY-11	26-MAY-11	R2193987
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	25-MAY-11	25-MAY-11	R2193661
Phaeophytin a	0.37	DLB	0.20	ug/L	25-MAY-11	25-MAY-11	R2193661
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	2.0		1.0	mg/L		01-JUN-11	R2197288
Bicarbonate (HCO3)	2.4		2.0	mg/L		01-JUN-11	R2197288
Carbonate (CO3)	<0.60		0.60	mg/L		01-JUN-11	R2197288
Hydroxide (OH)	<0.40		0.40	mg/L		01-JUN-11	R2197288
Conductivity							
Conductivity	0.73		0.40	umhos/cm		01-JUN-11	R2197367
pH							
pH	5.87		0.10	pH units		26-MAY-11	R2194654

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution
DLB	Detection limit was raised due to detection of analyte at comparable level in Method Blank.
DLM	Detection Limit Adjusted For Sample Matrix Effects
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRV	Reported Result Verified By Repeat Analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ACIDITY-WP	Water	Acidity	APHA 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B

Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO₃⁻ and H₂CO₃ endpoints indicated electrometrically.

BR-IC-ED	Water	Bromide by IC	APHA 4110 B-ION CHROMATOGRAPHY
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP

This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
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This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.

The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC.

TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.

CHL,PHEO-FLUORO-WP	Water	Chlorophyll a, Pheophytin by fluorometry	EPA 445.0
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Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification.

CL-IC-ED	Water	Chloride by IC	APHA 4110 B-ION CHROMATOGRAPHY
COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR

This analysis is carried out using procedures adapted from APHA 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. Colour is pH dependent. Unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit.

CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
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A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.

EC-WP	Water	Conductivity	APHA 2510B
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Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.

ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	HARDNESS CALCULATED
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Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
F-IC-ED	Water	Fluoride by IC	APHA 4110 B-ION CHROMATOGRAPHY
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0
Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.			
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.			
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.			
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.			
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.			
N2N3-COL-WP	Water	Nitrate + Nitrite	APHA4500;2005/LACHAT;1997,1999
The sample is passed through a column containing cadmium granules coated with copper sulphate, reducing nitrate to nitrite. The resulting nitrites plus those originally present in the sample are reacted with sulfanilamide (an organic amine) to form the diazonium salt which is coupled in an acidic solution with N-(1-naphthyl)-ethylenediamine dihydrochloride, to form azo dye. The azo dye intensity is measured by a colorimeter at 520 nm. The Omnion software compares the sample peak areas to a calibration curve and reports the concentration of nitrate-nitrite in the sample as nitrogen.			
Reference: APHA, AWWA, WPCF, Standard Methods for the Examination of Water and Wastewaters, 20th Edition, Washington, 1998. Method 4500-NO3-I			
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.			
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourmetrically after persulphate digestion of the sample.			
PH-WP	Water	pH	APHA 4500H
The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.			
SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2
This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.			
SO4-IC-ED	Water	Sulfate by IC	APHA 4110 B-ION CHROMATOGRAPHY
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540C
The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540D
The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.			
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B
A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
ED	ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R2200530							
WG1292189-2	CVS							
Acidity (as CaCO3)			104		%		85-115	03-JUN-11
WG1292189-3	DUP	L1007855-2						
Acidity (as CaCO3)		1.6	1.6		mg/L	0.32	400	03-JUN-11
WG1292189-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	03-JUN-11
ACIDITY-WP								
	Water							
Batch	R2205780							
WG1297969-1	CVS							
Acidity (as CaCO3)			102		%		85-115	16-JUN-11
WG1297969-3	DUP	L1008007-2						
Acidity (as CaCO3)		195	196		mg/L	0.68	20	16-JUN-11
ALK-TOT-WP								
	Water							
Batch	R2194654							
WG1285720-4	DUP	L1008444-1						
Alkalinity, Total (as CaCO3)		37.9	37.8		mg/L	0.21	20	26-MAY-11
Bicarbonate (HCO3)		46.2	46.1		mg/L	0.21	25	26-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	26-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	26-MAY-11
WG1285720-5	DUP	L1008005-3						
Alkalinity, Total (as CaCO3)		70.0	70.0		mg/L	0.087	20	26-MAY-11
Bicarbonate (HCO3)		85.4	85.3		mg/L	0.087	25	26-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	26-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	26-MAY-11
Batch	R2197288							
WG1288720-3	CVS							
Alkalinity, Total (as CaCO3)			102		%		85-115	01-JUN-11
WG1288720-8	DUP	L1010853-4						
Alkalinity, Total (as CaCO3)		381	381		mg/L	0.053	20	01-JUN-11
Bicarbonate (HCO3)		464	465		mg/L	0.053	25	01-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	01-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	01-JUN-11
BR-IC-ED								
	Water							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BR-IC-ED		Water						
Batch	R2193628							
WG1284220-3	DUP	L1007494-186						
Bromide (Br)		1.2	1.2		mg/L	1.7	20	25-MAY-11
WG1284220-5	DUP	L1007494-401						
Bromide (Br)		1.4	1.4		mg/L	2.0	20	25-MAY-11
WG1284220-7	DUP	L1008005-7						
Bromide (Br)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Bromide (Br)			109		%		85-115	25-MAY-11
WG1284220-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	25-MAY-11
WG1284220-4	MS	L1007494-186						
Bromide (Br)			92		%		75-125	25-MAY-11
WG1284220-6	MS	L1007494-401						
Bromide (Br)			N/A	MS-B	%		-	25-MAY-11
WG1284220-8	MS	L1008005-7						
Bromide (Br)			104		%		75-125	26-MAY-11
C-DIS-ORG-WP		Water						
Batch	R2199025							
WG1290529-2	CVS							
Dissolved Organic Carbon			103		%		80-120	03-JUN-11
Batch	R2199751							
WG1291294-2	CVS							
Dissolved Organic Carbon			103		%		80-120	06-JUN-11
WG1291288-1	MB							
Dissolved Organic Carbon			<1.0		mg/L		1	06-JUN-11
C-TOT-ORG-WP		Water						
Batch	R2199025							
WG1290529-2	CVS							
Total Organic Carbon			101		%		80-120	03-JUN-11
WG1290529-3	DUP	L1008172-1						
Total Organic Carbon		17.7	17.1		mg/L	3.3	20	03-JUN-11
WG1290529-1	MB							
Total Organic Carbon			<1.0		mg/L		1	03-JUN-11
Batch	R2199751							
WG1291294-2	CVS							
Total Organic Carbon			105		%		80-120	06-JUN-11
WG1291294-3	DUP	L1008501-1						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-ORG-WP								
	Water							
Batch	R2199751							
WG1291294-3	DUP	L1008501-1						
Total Organic Carbon		16.3	15.8		mg/L	2.6	20	06-JUN-11
WG1291294-1	MB							
Total Organic Carbon			<1.0		mg/L		1	06-JUN-11
CHL,PHEO-FLUORO-WP								
	Water							
Batch	R2193661							
WG1284255-1	CVS							
Chlorophyll a			80		%		65-135	25-MAY-11
WG1284255-2	CVS							
Chlorophyll a			101		%		65-135	25-MAY-11
WG1284251-2	DUP	L1007855-1						
Chlorophyll a		2.81	3.71		ug/L	28	35	25-MAY-11
Phaeophytin a		2.68	3.22		ug/L	18	35	25-MAY-11
WG1284251-3	DUP	L1008005-2						
Chlorophyll a		3.19	3.24		ug/L	1.6	35	25-MAY-11
Phaeophytin a		3.30	3.20		ug/L	3.1	35	25-MAY-11
CL-IC-ED								
	Water							
Batch	R2193628							
WG1284220-7	DUP	L1008005-7						
Chloride (Cl)		<0.50	<0.50	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Chloride (Cl)			98		%		85-115	25-MAY-11
WG1284220-1	MB							
Chloride (Cl)			<0.50		mg/L		0.5	25-MAY-11
WG1284220-8	MS	L1008005-7						
Chloride (Cl)			108		%		75-125	26-MAY-11
COLOUR-TRUE-WP								
	Water							
Batch	R2194632							
WG1285688-3	DUP	L1004360-1						
Colour, True		42.4	43.9		CU	3.5	20	26-MAY-11
WG1285688-4	DUP	L1008712-1						
Colour, True		32.7	33.5		CU	2.3	20	26-MAY-11
WG1285688-1	MB							
Colour, True			<5.0		CU		5	26-MAY-11
CONSULT-BOD-CBOD-WP								
	Water							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CONSULT-BOD-CBOD-WP Water								
Batch R2195641								
WG1284114-3	DUP	L1008005-1						
BOD Carbonaceous		1.5	1.6		mg/L	6.7	400	30-MAY-11
WG1284114-4	DUP	L1008007-3						
BOD Carbonaceous		<1.0	<1.0	RPD-NA	mg/L	N/A	400	30-MAY-11
WG1284114-2	IRM	61-GG						
BOD Carbonaceous			106		%		85-115	30-MAY-11
WG1284114-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	30-MAY-11
EC-WP Water								
Batch R2194654								
WG1285720-1	CVS							
Conductivity			97		%		90-110	26-MAY-11
WG1285720-5	DUP	L1008005-3						
Conductivity		159	158		umhos/cm	0.69	10	26-MAY-11
Batch R2197367								
WG1288805-1	CVS							
Conductivity			99		%		90-110	01-JUN-11
WG1288805-2	DUP	L1008005-7						
Conductivity		0.96	0.96		umhos/cm	0.0	400	01-JUN-11
F-IC-ED Water								
Batch R2193628								
WG1284220-3	DUP	L1007494-186						
Fluoride (F)		4.13	4.05		mg/L	2.1	20	25-MAY-11
WG1284220-5	DUP	L1007494-401						
Fluoride (F)		1.99	1.98		mg/L	0.45	20	25-MAY-11
WG1284220-7	DUP	L1008005-7						
Fluoride (F)		<0.050	<0.050	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Fluoride (F)			106		%		85-115	25-MAY-11
WG1284220-1	MB							
Fluoride (F)			<0.050		mg/L		0.05	25-MAY-11
WG1284220-4	MS	L1007494-186						
Fluoride (F)			N/A	MS-B	%		-	25-MAY-11
WG1284220-6	MS	L1007494-401						
Fluoride (F)			N/A	MS-B	%		-	25-MAY-11
WG1284220-8	MS	L1008005-7						
Fluoride (F)			120		%		75-125	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAF-WP								
	Water							
Batch	R2194712							
WG1285755-3	DUP	L1007855-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1285755-5	DUP	L1008007-5						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1285755-2	LCS							
Mercury (Hg)-Dissolved			98		%		80-120	26-MAY-11
Mercury (Hg)-Dissolved			98		%		80-120	26-MAY-11
WG1285754-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
WG1285755-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	26-MAY-11
WG1285755-4	MS	L1007855-1						
Mercury (Hg)-Dissolved			110		%		70-130	26-MAY-11
Mercury (Hg)-Dissolved			110		%		70-130	26-MAY-11
WG1285755-6	MS	L1008007-5						
Mercury (Hg)-Dissolved			93		%		70-130	26-MAY-11
Mercury (Hg)-Dissolved			93		%		70-130	26-MAY-11
HG-T-CVAF-WP								
	Water							
Batch	R2194078							
WG1285021-3	DUP	L1007210-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
WG1285021-5	DUP	L1008005-5						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	25-MAY-11
WG1285021-2	LCS							
Mercury (Hg)-Total			88		%		80-120	25-MAY-11
Mercury (Hg)-Total			88		%		80-120	25-MAY-11
WG1285021-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	25-MAY-11
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	25-MAY-11
WG1285021-4	MS	L1006894-1						
Mercury (Hg)-Total			117				70-130	



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
	Water							
Batch	R2194078							
WG1285021-4 MS		L1006894-1						
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
WG1285021-6 MS		L1008005-5						
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
Mercury (Hg)-Total			117		%		70-130	25-MAY-11
MET-D-L-MS-WP								
	Water							
Batch	R2193987							
WG1284822-4 DUP		WG1284822-3						
Aluminum (Al)-Dissolved		0.0298	0.0288		mg/L	3.3	20	26-MAY-11
Antimony (Sb)-Dissolved		0.00364	0.00361		mg/L	0.86	20	26-MAY-11
Arsenic (As)-Dissolved		0.00377	0.00368		mg/L	2.6	20	26-MAY-11
Barium (Ba)-Dissolved		0.0252	0.0256		mg/L	1.6	20	26-MAY-11
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Boron (B)-Dissolved		0.026	0.028		mg/L	6.0	400	26-MAY-11
Cadmium (Cd)-Dissolved		0.00326	0.00329		mg/L	0.92	20	26-MAY-11
Calcium (Ca)-Dissolved		167	168		mg/L	0.60	20	26-MAY-11
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Chromium (Cr)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	26-MAY-11
Cobalt (Co)-Dissolved		0.00105	0.00102		mg/L	2.8	20	26-MAY-11
Copper (Cu)-Dissolved		0.0293	0.0293		mg/L	0.16	20	26-MAY-11
Iron (Fe)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	26-MAY-11
Lead (Pb)-Dissolved		0.000357	0.000355		mg/L	0.56	400	26-MAY-11
Lithium (Li)-Dissolved		0.0072	0.0080		mg/L	10	400	26-MAY-11
Magnesium (Mg)-Dissolved		8.79	8.62		mg/L	2.0	20	26-MAY-11
Manganese (Mn)-Dissolved		0.0681	0.0682		mg/L	0.11	20	26-MAY-11
Molybdenum (Mo)-Dissolved		0.00365	0.00364		mg/L	0.30	20	26-MAY-11
Nickel (Ni)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	26-MAY-11
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	26-MAY-11
Potassium (K)-Dissolved		5.88	5.81		mg/L	1.2	20	26-MAY-11
Rubidium (Rb)-Dissolved		0.00645	0.00637		mg/L	1.2	20	26-MAY-11
Selenium (Se)-Dissolved		0.0149	0.0143		mg/L	4.0	20	26-MAY-11
Silicon (Si)-Dissolved		1.17	1.20		mg/L	2.5	20	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2193987							
WG1284822-4 DUP		WG1284822-3						
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Sodium (Na)-Dissolved		254	258		mg/L	1.6	20	26-MAY-11
Strontium (Sr)-Dissolved		1.03	1.02		mg/L	1.1	20	26-MAY-11
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	26-MAY-11
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Titanium (Ti)-Dissolved		0.00139	0.00128		mg/L	8.3	20	26-MAY-11
Tungsten (W)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	26-MAY-11
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	26-MAY-11
Vanadium (V)-Dissolved		0.00047	0.00049		mg/L	3.7	400	26-MAY-11
Zinc (Zn)-Dissolved		0.423	0.425		mg/L	0.41	20	26-MAY-11
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	26-MAY-11
WG1284822-2 LCS								
Aluminum (Al)-Dissolved			109		%		80-120	26-MAY-11
Antimony (Sb)-Dissolved			103		%		80-120	26-MAY-11
Arsenic (As)-Dissolved			100		%		80-120	26-MAY-11
Barium (Ba)-Dissolved			102		%		80-120	26-MAY-11
Beryllium (Be)-Dissolved			103		%		80-120	26-MAY-11
Bismuth (Bi)-Dissolved			109		%		80-120	26-MAY-11
Boron (B)-Dissolved			104		%		80-120	26-MAY-11
Cadmium (Cd)-Dissolved			106		%		80-120	26-MAY-11
Calcium (Ca)-Dissolved			101		%		80-120	26-MAY-11
Cesium (Cs)-Dissolved			100		%		80-120	26-MAY-11
Chromium (Cr)-Dissolved			103		%		80-120	26-MAY-11
Cobalt (Co)-Dissolved			100		%		80-120	26-MAY-11
Copper (Cu)-Dissolved			99		%		80-120	26-MAY-11
Iron (Fe)-Dissolved			99		%		80-120	26-MAY-11
Lead (Pb)-Dissolved			101		%		80-120	26-MAY-11
Lithium (Li)-Dissolved			103		%		80-120	26-MAY-11
Magnesium (Mg)-Dissolved			104		%		80-120	26-MAY-11
Manganese (Mn)-Dissolved			101		%		80-120	26-MAY-11
Molybdenum (Mo)-Dissolved			106		%		80-120	26-MAY-11



Quality Control Report

Workorder: L1008007

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2193987							
WG1284822-2	LCS							
Nickel (Ni)-Dissolved			99		%		80-120	26-MAY-11
Phosphorus (P)-Dissolved			103		%		80-120	26-MAY-11
Potassium (K)-Dissolved			103		%		80-120	26-MAY-11
Rubidium (Rb)-Dissolved			107		%		80-120	26-MAY-11
Selenium (Se)-Dissolved			101		%		80-120	26-MAY-11
Silicon (Si)-Dissolved			104		%		80-120	26-MAY-11
Silver (Ag)-Dissolved			102		%		80-120	26-MAY-11
Sodium (Na)-Dissolved			104		%		80-120	26-MAY-11
Strontium (Sr)-Dissolved			108		%		80-120	26-MAY-11
Tellurium (Te)-Dissolved			103		%		80-120	26-MAY-11
Thallium (Tl)-Dissolved			111		%		80-120	26-MAY-11
Thorium (Th)-Dissolved			102		%		80-120	26-MAY-11
Tin (Sn)-Dissolved			104		%		80-120	26-MAY-11
Titanium (Ti)-Dissolved			100		%		80-120	26-MAY-11
Tungsten (W)-Dissolved			98		%		80-120	26-MAY-11
Uranium (U)-Dissolved			100		%		80-120	26-MAY-11
Vanadium (V)-Dissolved			103		%		80-120	26-MAY-11
Zinc (Zn)-Dissolved			100		%		80-120	26-MAY-11
Zirconium (Zr)-Dissolved			102		%		80-120	26-MAY-11
WG1284822-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.02	26-MAY-11
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Arsenic (As)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Boron (B)-Dissolved			<0.010		mg/L		0.03	26-MAY-11
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.0002	26-MAY-11
Calcium (Ca)-Dissolved			<0.050		mg/L		0.2	26-MAY-11
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	26-MAY-11
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Copper (Cu)-Dissolved			<0.00020		mg/L		0.002	26-MAY-11
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	26-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2193987							
WG1284822-1	MB							
Lead (Pb)-Dissolved			<0.000090		mg/L		0.001	26-MAY-11
Lithium (Li)-Dissolved			<0.0020		mg/L		0.01	26-MAY-11
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.05	26-MAY-11
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.001	26-MAY-11
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.002	26-MAY-11
Phosphorus (P)-Dissolved			<0.10		mg/L		0.5	26-MAY-11
Potassium (K)-Dissolved			<0.020		mg/L		0.1	26-MAY-11
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0005	26-MAY-11
Selenium (Se)-Dissolved			<0.0010		mg/L		0.005	26-MAY-11
Silicon (Si)-Dissolved			<0.050		mg/L		0.3	26-MAY-11
Silver (Ag)-Dissolved			<0.00010		mg/L		0.001	26-MAY-11
Sodium (Na)-Dissolved			<0.020		mg/L		0.05	26-MAY-11
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.005	26-MAY-11
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	26-MAY-11
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0006	26-MAY-11
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.001	26-MAY-11
Tungsten (W)-Dissolved			<0.00020		mg/L		0.002	26-MAY-11
Uranium (U)-Dissolved			<0.00010		mg/L		0.0005	26-MAY-11
Vanadium (V)-Dissolved			<0.00020		mg/L		0.002	26-MAY-11
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.02	26-MAY-11
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.001	26-MAY-11

MET-T-L-MS-WP **Water**

Batch **R2193921**

WG1284274-4 **DUP**

WG1284274-3

Aluminum (Al)-Total	0.0423	0.0388			mg/L	8.7	20	25-MAY-11
Antimony (Sb)-Total	<0.00020	<0.00020	RPD-NA		mg/L	N/A	400	25-MAY-11
Arsenic (As)-Total	0.00176	0.00169			mg/L	4.1	20	25-MAY-11
Barium (Ba)-Total	0.0117	0.0121			mg/L	2.8	20	25-MAY-11
Beryllium (Be)-Total	<0.00020	<0.00020	RPD-NA		mg/L	N/A	400	25-MAY-11
Bismuth (Bi)-Total	<0.00020	<0.00020	RPD-NA		mg/L	N/A	400	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2193921							
WG1284274-4	DUP	WG1284274-3						
Boron (B)-Total		0.012	<0.010	RPD-NA	mg/L	N/A	400	25-MAY-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	25-MAY-11
Calcium (Ca)-Total		12.2	11.9		mg/L	2.8	20	25-MAY-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Copper (Cu)-Total		0.00052	0.00045		mg/L	14	400	25-MAY-11
Iron (Fe)-Total		0.16	0.14		mg/L	8.3	400	25-MAY-11
Lead (Pb)-Total		0.000099	0.000099		mg/L	0.0	400	25-MAY-11
Magnesium (Mg)-Total		5.22	4.87		mg/L	7.0	20	25-MAY-11
Manganese (Mn)-Total		0.0457	0.0444		mg/L	2.8	20	25-MAY-11
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	25-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	25-MAY-11
Potassium (K)-Total		0.913	0.859		mg/L	6.1	20	25-MAY-11
Rubidium (Rb)-Total		0.00108	0.00106		mg/L	1.8	20	25-MAY-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Silicon (Si)-Total		0.397	0.424		mg/L	6.8	20	25-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Sodium (Na)-Total		1.40	1.36		mg/L	2.3	20	25-MAY-11
Strontium (Sr)-Total		0.0283	0.0280		mg/L	0.93	20	25-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	25-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Titanium (Ti)-Total		0.00038	0.00042		mg/L	10	400	25-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Zinc (Zn)-Total		0.0078	0.0072		mg/L	8.5	400	25-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	25-MAY-11
WG1284274-6	DUP	WG1284274-5						
Aluminum (Al)-Total		0.0384	0.0458		mg/L	18	20	25-MAY-11
Antimony (Sb)-Total		0.0148	0.0146		mg/L	1.1	20	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2193921							
WG1284274-6	DUP	WG1284274-5						
Arsenic (As)-Total		0.731	0.721		mg/L	1.3	20	25-MAY-11
Barium (Ba)-Total		0.0365	0.0356		mg/L	2.5	20	25-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Boron (B)-Total		0.041	0.043		mg/L	5.5	400	25-MAY-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	25-MAY-11
Calcium (Ca)-Total		68.7	66.1		mg/L	3.8	20	25-MAY-11
Cesium (Cs)-Total		0.00026	0.00025		mg/L	2.4	400	25-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Cobalt (Co)-Total		0.00069	0.00072		mg/L	5.0	400	25-MAY-11
Copper (Cu)-Total		0.00167	0.00170		mg/L	1.7	20	25-MAY-11
Iron (Fe)-Total		0.53	0.54		mg/L	1.2	20	25-MAY-11
Lead (Pb)-Total		0.000290	0.000288		mg/L	0.69	400	25-MAY-11
Lithium (Li)-Total		0.0226	0.0232		mg/L	2.8	20	25-MAY-11
Magnesium (Mg)-Total		27.5	26.3		mg/L	4.3	20	25-MAY-11
Manganese (Mn)-Total		0.126	0.125		mg/L	0.79	20	25-MAY-11
Molybdenum (Mo)-Total		0.00089	0.00094		mg/L	6.1	400	25-MAY-11
Nickel (Ni)-Total		0.0139	0.0136		mg/L	2.3	20	25-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	25-MAY-11
Potassium (K)-Total		5.66	5.70		mg/L	0.79	20	25-MAY-11
Rubidium (Rb)-Total		0.00603	0.00625		mg/L	3.6	20	25-MAY-11
Selenium (Se)-Total		0.0036	0.0035		mg/L	1.9	400	25-MAY-11
Silicon (Si)-Total		1.44	1.42		mg/L	1.9	20	25-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Sodium (Na)-Total		43.9	42.5		mg/L	3.4	20	25-MAY-11
Strontium (Sr)-Total		0.807	0.831		mg/L	3.0	20	25-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	25-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	25-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	25-MAY-11
Titanium (Ti)-Total		0.00183	0.00192		mg/L	4.6	20	25-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	25-MAY-11
Uranium (U)-Total		0.00032	0.00032		mg/L			25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2193921							
WG1284274-6	DUP	WG1284274-5						
Uranium (U)-Total		0.00032	0.00032		mg/L	0.0	400	25-MAY-11
Vanadium (V)-Total		0.00075	0.00072		mg/L	3.8	400	25-MAY-11
Zinc (Zn)-Total		0.0119	0.0118		mg/L	0.87	400	25-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	25-MAY-11
WG1284274-2	LCS							
Aluminum (Al)-Total			108		%		80-120	25-MAY-11
Antimony (Sb)-Total			102		%		80-120	25-MAY-11
Arsenic (As)-Total			102		%		80-120	25-MAY-11
Barium (Ba)-Total			101		%		80-120	25-MAY-11
Beryllium (Be)-Total			105		%		80-120	25-MAY-11
Bismuth (Bi)-Total			113		%		80-120	25-MAY-11
Boron (B)-Total			105		%		80-120	25-MAY-11
Cadmium (Cd)-Total			104		%		80-120	25-MAY-11
Calcium (Ca)-Total			103		%		80-120	25-MAY-11
Cesium (Cs)-Total			103		%		80-120	25-MAY-11
Chromium (Cr)-Total			98		%		80-120	25-MAY-11
Cobalt (Co)-Total			100		%		80-120	25-MAY-11
Copper (Cu)-Total			101		%		80-120	25-MAY-11
Iron (Fe)-Total			95		%		80-120	25-MAY-11
Lead (Pb)-Total			100		%		80-120	25-MAY-11
Lithium (Li)-Total			105		%		80-120	25-MAY-11
Magnesium (Mg)-Total			105		%		80-120	25-MAY-11
Manganese (Mn)-Total			102		%		80-120	25-MAY-11
Molybdenum (Mo)-Total			105		%		80-120	25-MAY-11
Nickel (Ni)-Total			103		%		80-120	25-MAY-11
Phosphorus (P)-Total			104		%		80-120	25-MAY-11
Potassium (K)-Total			103		%		80-120	25-MAY-11
Rubidium (Rb)-Total			103		%		80-120	25-MAY-11
Selenium (Se)-Total			100		%		80-120	25-MAY-11
Silicon (Si)-Total			108		%		80-120	25-MAY-11
Silver (Ag)-Total			104		%		80-120	25-MAY-11
Sodium (Na)-Total			107		%		80-120	25-MAY-11
Strontium (Sr)-Total			106		%		80-120	25-MAY-11
Tellurium (Te)-Total			105		%		80-120	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2193921							
WG1284274-2	LCS							
Tellurium (Te)-Total			105		%		80-120	25-MAY-11
Thallium (Tl)-Total			114		%		80-120	25-MAY-11
Thorium (Th)-Total			99		%		70-130	25-MAY-11
Tin (Sn)-Total			105		%		80-120	25-MAY-11
Titanium (Ti)-Total			105		%		80-120	25-MAY-11
Tungsten (W)-Total			98		%		80-120	25-MAY-11
Uranium (U)-Total			95		%		80-120	25-MAY-11
Vanadium (V)-Total			104		%		80-120	25-MAY-11
Zinc (Zn)-Total			99		%		80-120	25-MAY-11
Zirconium (Zr)-Total			103		%		80-120	25-MAY-11
WG1284274-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.02	25-MAY-11
Antimony (Sb)-Total			<0.00020		mg/L		0.001	25-MAY-11
Arsenic (As)-Total			<0.00020		mg/L		0.001	25-MAY-11
Barium (Ba)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Beryllium (Be)-Total			<0.00020		mg/L		0.001	25-MAY-11
Bismuth (Bi)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Boron (B)-Total			<0.010		mg/L		0.03	25-MAY-11
Cadmium (Cd)-Total			<0.000010		mg/L		0.0002	25-MAY-11
Calcium (Ca)-Total			<0.10		mg/L		0.2	25-MAY-11
Cesium (Cs)-Total			<0.00010		mg/L		0.0005	25-MAY-11
Chromium (Cr)-Total			<0.0010		mg/L		0.002	25-MAY-11
Cobalt (Co)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Copper (Cu)-Total			<0.00020		mg/L		0.002	25-MAY-11
Iron (Fe)-Total			<0.10		mg/L		0.1	25-MAY-11
Lead (Pb)-Total			<0.000090		mg/L		0.001	25-MAY-11
Lithium (Li)-Total			<0.0020		mg/L		0.002	25-MAY-11
Magnesium (Mg)-Total			<0.010		mg/L		0.05	25-MAY-11
Manganese (Mn)-Total			<0.00030		mg/L		0.001	25-MAY-11
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0005	25-MAY-11
Nickel (Ni)-Total			<0.0020		mg/L		0.002	25-MAY-11
Phosphorus (P)-Total			<0.20		mg/L		0.5	25-MAY-11
Potassium (K)-Total			<0.020		mg/L		0.1	25-MAY-11
Rubidium (Rb)-Total			<0.00020		mg/L		0.0005	25-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2193921							
WG1284274-1	MB							
Selenium (Se)-Total			<0.0010		mg/L		0.005	25-MAY-11
Silicon (Si)-Total			<0.050		mg/L		0.3	25-MAY-11
Silver (Ag)-Total			<0.00010		mg/L		0.001	25-MAY-11
Sodium (Na)-Total			<0.030		mg/L		0.05	25-MAY-11
Strontium (Sr)-Total			<0.00010		mg/L		0.0005	25-MAY-11
Tellurium (Te)-Total			<0.00020		mg/L		0.001	25-MAY-11
Thallium (Tl)-Total			<0.00010		mg/L		0.005	25-MAY-11
Thorium (Th)-Total			<0.00010		mg/L		0.0001	25-MAY-11
Tin (Sn)-Total			<0.00020		mg/L		0.0006	25-MAY-11
Titanium (Ti)-Total			<0.00020		mg/L		0.001	25-MAY-11
Tungsten (W)-Total			<0.0010		mg/L		0.002	25-MAY-11
Uranium (U)-Total			<0.00010		mg/L		0.0005	25-MAY-11
Vanadium (V)-Total			<0.00020		mg/L		0.002	25-MAY-11
Zinc (Zn)-Total			<0.0050		mg/L		0.02	25-MAY-11
Zirconium (Zr)-Total			<0.00040		mg/L		0.001	25-MAY-11
N-TOTKJ-WP		Water						
Batch	R2196028							
WG1287257-1	CVS							
Total Kjeldahl Nitrogen			96		%		90-110	30-MAY-11
WG1284271-4	DUP	L1007954-1						
Total Kjeldahl Nitrogen		0.94	0.91		mg/L	3.6	20	30-MAY-11
WG1284271-7	DUP	L1008004-1						
Total Kjeldahl Nitrogen		0.52	0.51		mg/L	1.9	20	30-MAY-11
WG1284271-2	LCS							
Total Kjeldahl Nitrogen			96		%		75-125	30-MAY-11
WG1284271-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	30-MAY-11
WG1284271-5	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	30-MAY-11
WG1284271-3	MS	L1007954-1						
Total Kjeldahl Nitrogen			91		%		70-130	30-MAY-11
WG1284271-6	MS	L1008004-1						
Total Kjeldahl Nitrogen			95		%		70-130	30-MAY-11



Quality Control Report

Workorder: L1008007

Report Date: 21-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N-TOTKJ-WP		Water						
Batch	R2196670							
WG1287942-1	CVS							
Total Kjeldahl Nitrogen			97		%		90-110	31-MAY-11
WG1284964-4	DUP	L1008007-3						
Total Kjeldahl Nitrogen		3.96	3.86		mg/L	2.6	20	31-MAY-11
WG1284964-7	DUP	L1008172-3						
Total Kjeldahl Nitrogen		1.39	1.41		mg/L	1.4	20	31-MAY-11
WG1284964-2	LCS							
Total Kjeldahl Nitrogen			92		%		75-125	31-MAY-11
WG1284964-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	31-MAY-11
WG1284964-5	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	31-MAY-11
WG1284964-3	MS	L1008007-3						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	31-MAY-11
WG1284964-6	MS	L1008172-3						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	31-MAY-11
N2N3-COL-WP		Water						
Batch	R2198818							
WG1290299-3	DUP	L1006708-1						
Nitrate and Nitrite as N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	04-JUN-11
WG1290299-5	DUP	L1009506-1						
Nitrate and Nitrite as N		1.65	1.65		mg/L	0.22	20	04-JUN-11
WG1290299-7	DUP	L1007954-1						
Nitrate and Nitrite as N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	04-JUN-11
WG1290299-9	DUP	L1008172-2						
Nitrate and Nitrite as N		0.159	0.159		mg/L	0.38	20	04-JUN-11
WG1290299-2	LCS							
Nitrate and Nitrite as N			100		%		85-115	04-JUN-11
WG1290299-1	MB							
Nitrate and Nitrite as N			<0.050		mg/L		0.05	04-JUN-11
WG1290299-10	MS	L1008172-2						
Nitrate and Nitrite as N			85		%		75-125	04-JUN-11
WG1290299-6	MS	L1009506-1						
Nitrate and Nitrite as N			N/A	MS-B	%		-	04-JUN-11
WG1290299-8	MS	L1007954-1						
Nitrate and Nitrite as N			97		%		75-125	04-JUN-11
NH3-COL-WP		Water						



Quality Control Report

Workorder: L1008007

Report Date: 21-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-COL-WP		Water						
Batch	R2199113							
WG1290617-3	DUP	L1008109-6						
Ammonia as N		4.96	4.89		mg/L	1.6	20	03-JUN-11
WG1290617-2	LCS							
Ammonia as N			100		%		85-115	03-JUN-11
WG1290617-1	MB							
Ammonia as N			<0.050		mg/L		0.05	03-JUN-11
WG1290617-4	MS	L1010351-7						
Ammonia as N			101		%		75-125	03-JUN-11
P-T-COL-WP		Water						
Batch	R2195446							
WG1284042-3	DUP	L1007955-4						
Phosphorus (P)-Total		27.3	28.7		mg/L	5.0	20	26-MAY-11
WG1284042-4	DUP	L1007983-1						
Phosphorus (P)-Total		4.41	4.77		mg/L	7.8	20	26-MAY-11
WG1284042-5	DUP	L1008217-5						
Phosphorus (P)-Total		0406	0.285		mg/L	3.2	20	26-MAY-11
WG1284042-2	LCS							
Phosphorus (P)-Total			102		%		80-120	26-MAY-11
WG1284042-1	MB							
Phosphorus (P)-Total			<0.010		mg/L		0.01	26-MAY-11
WG1284042-6	MS	L1007985-2						
Phosphorus (P)-Total			100		%		70-130	26-MAY-11
WG1284042-7	MS	L1008004-1						
Phosphorus (P)-Total			95		%		70-130	26-MAY-11
WG1284042-8	MS	L1008005-6						
Phosphorus (P)-Total			91		%		70-130	26-MAY-11
PH-WP		Water						
Batch	R2194654							
WG1285720-4	DUP	L1008444-1						
pH		7.46	7.47	J	pH units	0.01	0.2	26-MAY-11
WG1285720-5	DUP	L1008005-3						
pH		8.17	8.16	J	pH units	0.00	0.2	26-MAY-11
WG1285720-2	LCS							
pH			7.42		pH units		7.3-7.5	26-MAY-11
SIO2-L-COL-WP		Water						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SIO2-L-COL-WP								
	Water							
Batch	R2196447							
WG1287600-3	DUP	L1008007-3						
Silica, Reactive (as SiO2)		10.0	9.97		mg/L	0.51	20	31-MAY-11
WG1287600-4	DUP	L1009761-1						
Silica, Reactive (as SiO2)		3.49	3.46		mg/L	0.90	20	31-MAY-11
WG1287600-2	LCS							
Silica, Reactive (as SiO2)			102		%		85-115	31-MAY-11
WG1287600-1	MB							
Silica, Reactive (as SiO2)			<0.0050		mg/L		0.005	31-MAY-11
WG1287600-5	MS	L1007855-5						
Silica, Reactive (as SiO2)			105		%		75-125	31-MAY-11
WG1287600-6	MS	L1007954-5						
Silica, Reactive (as SiO2)			104		%		75-125	31-MAY-11
Batch	R2200809							
WG1292266-5	DUP	L1012431-2						
Silica, Reactive (as SiO2)		6.06	6.21		mg/L	2.6	20	08-JUN-11
WG1292266-6	DUP	L1010371-3						
Silica, Reactive (as SiO2)		8.12	8.27		mg/L	1.8	20	08-JUN-11
WG1292266-2	LCS							
Silica, Reactive (as SiO2)			99		%		85-115	08-JUN-11
WG1292266-1	MB							
Silica, Reactive (as SiO2)			<0.0050		mg/L		0.005	08-JUN-11
WG1292266-3	MS	L1008007-4						
Silica, Reactive (as SiO2)			97		%		75-125	08-JUN-11
WG1292266-4	MS	L1010336-3						
Silica, Reactive (as SiO2)			97		%		75-125	08-JUN-11
SO4-IC-ED								
	Water							
Batch	R2193628							
WG1284220-7	DUP	L1008005-7						
Sulfate (SO4)		<0.50	<0.50	RPD-NA	mg/L	N/A	20	26-MAY-11
WG1284220-2	LCS							
Sulfate (SO4)			99		%		85-115	25-MAY-11
WG1284220-1	MB							
Sulfate (SO4)			<0.50		mg/L		0.5	25-MAY-11
WG1284220-8	MS	L1008005-7						
Sulfate (SO4)			110		%		75-125	26-MAY-11
SOLIDS-TDS-WP								
	Water							



Quality Control Report

Workorder: L1008007

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TDS-WP		Water						
Batch	R2195608							
WG1285528-2	CVS							
Total Dissolved Solids			101		%		85-115	27-MAY-11
WG1285528-3	DUP	L1008712-1						
Total Dissolved Solids		1150	1150		mg/L	0.0	20	27-MAY-11
WG1285528-4	DUP	L1009186-1						
Total Dissolved Solids		417	414		mg/L	0.72	20	27-MAY-11
WG1285528-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	27-MAY-11
SOLIDS-TOTSUS-WP		Water						
Batch	R2195608							
WG1285528-2	CVS							
Total Suspended Solids			88		%		85-115	27-MAY-11
WG1285528-3	DUP	L1008712-1						
Total Suspended Solids		24.0	24.0		mg/L	0.0	400	27-MAY-11
WG1285528-5	DUP	L1009219-1						
Total Suspended Solids		176	168		mg/L	4.7	20	27-MAY-11
WG1285528-7	DUP	L1009469-2						
Total Suspended Solids		57.0	52.0		mg/L	9.2	20	27-MAY-11
WG1285528-8	DUP	L1009409-1						
Total Suspended Solids		475	510		mg/L	7.1	20	27-MAY-11
WG1285528-1	MB							
Total Suspended Solids			<5.0		mg/L		5	27-MAY-11
TURBIDITY-WP		Water						
Batch	R2193149							
WG1284008-3	DUP	L1007853-1						
Turbidity		16.4	16.5		NTU	0.61	15	24-MAY-11
WG1284008-2	LCS							
Turbidity			101		%		85-115	24-MAY-11
WG1284008-1	MB							
Turbidity			<0.10		NTU		0.1	24-MAY-11

Quality Control Report

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L1008007

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Turbidity							
	1	22-MAY-11 15:00	24-MAY-11 17:47	48	51	hours	EHTL
	2	22-MAY-11 16:00	24-MAY-11 17:47	48	50	hours	EHTL
	3	22-MAY-11 17:00	24-MAY-11 17:47	48	49	hours	EHTL
	4	22-MAY-11 16:00	24-MAY-11 17:47	48	50	hours	EHTL
	5	22-MAY-11 17:00	24-MAY-11 17:47	48	49	hours	EHTL
pH							
	1	22-MAY-11 15:00	26-MAY-11 11:00	0.25	92	hours	EHTR-FM
	2	22-MAY-11 16:00	26-MAY-11 11:00	0.25	91	hours	EHTR-FM
	3	22-MAY-11 17:00	26-MAY-11 11:00	0.25	90	hours	EHTR-FM
	4	22-MAY-11 16:00	26-MAY-11 11:00	0.25	91	hours	EHTR-FM
	5	22-MAY-11 17:00	26-MAY-11 11:00	0.25	90	hours	EHTR-FM
Anions and Nutrients							
Acidity							
	1	22-MAY-11 15:00	16-JUN-11 17:13	14	25	days	EHT
	2	22-MAY-11 16:00	16-JUN-11 17:13	14	25	days	EHT
	3	22-MAY-11 17:00	16-JUN-11 17:13	14	25	days	EHT
Phosphorus, Total							
	1	22-MAY-11 15:00	24-MAY-11 19:55	48	53	hours	EHTL
	2	22-MAY-11 16:00	24-MAY-11 19:55	48	52	hours	EHTL
	3	22-MAY-11 17:00	24-MAY-11 19:55	48	51	hours	EHTL
	4	22-MAY-11 16:00	24-MAY-11 19:55	48	52	hours	EHTL
	5	22-MAY-11 17:00	24-MAY-11 19:55	48	51	hours	EHTL
Aggregate Organics							
Carbonaceous BOD							
	1	22-MAY-11 15:00	25-MAY-11 08:00	48	65	hours	EHTL
	2	22-MAY-11 16:00	25-MAY-11 08:00	48	64	hours	EHTL
	3	22-MAY-11 17:00	25-MAY-11 08:00	48	63	hours	EHTL
	4	22-MAY-11 16:00	25-MAY-11 08:00	48	64	hours	EHTL
	5	22-MAY-11 17:00	25-MAY-11 08:00	48	63	hours	EHTL

Legend & Qualifier Definitions:

- EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
- EHTR: Exceeded ALS recommended hold time prior to sample receipt.
- EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
- EHT: Exceeded ALS recommended hold time prior to analysis.
- Rec. HT: ALS recommended hold time (see units).

Notes*:
 Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
 Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1008007 were received on 24-MAY-11 09:10.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



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



COC # 1008007 Page of

Report To Company: AECOM -W172 Contact: Cliff Samoiloff Address: 99 Commerce Dr Phone: _____ Fax: _____ Email 1: cliff.samoiloff@aecom.com Email 2: shawna.kiantanson@aecom.com Email 3: _____		Service Requested (Rush for routine analysis subject to availability) <input checked="" type="radio"/> Regular (Standard Turnaround Times - Business Days) <input type="radio"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT	
Client / Project Information Job #: 60212435-200 PO / AFE: _____ LSD: _____ Quote #: Q24534 ALS Contact: _____		Analysis Request Please indicate below Filtered, Preserved or both (F, P, F/P) Chlorophylla / Pheophytin Acidity, Colour, Turbidity Anions, Br, silica, ph, ec, Alk NH ₃ , TKN, PT CBOD Solids (TSS, TDS) Metals & Hg - Total Metals & Hg - Dissolved TOC, DOC Number of Containers	
Sample Identification (This description will appear on the report) Lab Work Order # (lab use only) STL 01 STL 02 STL 03 FLB 01 TRB 03 ARB 02		Sampler: Date (dd-mm-yy) 23 MAY 11 Time (hh:mm) 1500 Sample Type water Date 23 MAY 11 Time 09:10 Temperature 5.8 °C	
SHIPMENT RELEASE (client use) Date (dd-mm-yy) 23 MAY 11 Time (hh:mm) 1630 Received by: Jennie Ryman		SHIPMENT VERIFICATION (lab use only) Verified by: _____ Date: _____ Time: _____ Observations: Yes / No? If Yes add SIF	

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/IAB Tier 1 - Natural, etc) / Hazardous Details
 STL dissolved metals samples bed filtered and preserved.

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 provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 26-MAY-11
Report Date: 13-JUN-11 13:02 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1009420
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-200
Legal Site Desc:
C of C Numbers:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1009420-1 ANB 10							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	5.14		0.50	mg/L		27-MAY-11	R2195808
Fluoride							
Fluoride	<0.10		0.10	mg/L		27-MAY-11	R2195808
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		27-MAY-11	R2195808
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		27-MAY-11	R2195808
Sulfate							
Sulfate	4.24		0.50	mg/L		27-MAY-11	R2195808
Miscellaneous Parameters							
Acidity (as CaCO3)	2.0		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		06-JUN-11	R2199657
Bromide (Br)	<0.10		0.10	mg/L		27-MAY-11	R2195808
BOD Carbonaceous	1.2		1.0	mg/L	26-MAY-11	31-MAY-11	R2196137
Colour, True	12.2		5.0	CU		28-MAY-11	R2196539
Dissolved Organic Carbon	10.1		1.0	mg/L		07-JUN-11	R2200416
Hardness (as CaCO3)	72.2		0.30	mg/L		30-MAY-11	
Hardness (as CaCO3)	72.2		0.20	mg/L		30-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	30-MAY-11	30-MAY-11	R2196940
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		26-MAY-11	
Phosphorus (P)-Total	0.019		0.010	mg/L		27-MAY-11	R2195667
Silica, Reactive (as SiO2)	1.51		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	108		5.0	mg/L		30-MAY-11	R2196199
Total Kjeldahl Nitrogen	1.17		0.20	mg/L	26-MAY-11	31-MAY-11	R2196526
Total Organic Carbon	10.3		1.0	mg/L		07-JUN-11	R2200416
Total Suspended Solids	<5.0		5.0	mg/L		30-MAY-11	R2196199
Turbidity	2.16		0.10	NTU		27-MAY-11	R2194531
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0673		0.0050	mg/L	27-MAY-11	27-MAY-11	R2195452
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Arsenic (As)-Total	0.00101		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Barium (Ba)-Total	0.0116		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Boron (B)-Total	<0.010		0.010	mg/L	27-MAY-11	27-MAY-11	R2195452
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	27-MAY-11	27-MAY-11	R2195452
Calcium (Ca)-Total	17.0		0.10	mg/L	27-MAY-11	27-MAY-11	R2195452
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Copper (Cu)-Total	0.00137		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Iron (Fe)-Total	0.10		0.10	mg/L	27-MAY-11	27-MAY-11	R2195452
Lead (Pb)-Total	<0.000090		0.000090	mg/L	27-MAY-11	27-MAY-11	R2195452
Lithium (Li)-Total	0.0025		0.0020	mg/L	27-MAY-11	27-MAY-11	R2195452
Magnesium (Mg)-Total	7.58		0.010	mg/L	27-MAY-11	27-MAY-11	R2195452
Manganese (Mn)-Total	0.0207		0.00030	mg/L	27-MAY-11	27-MAY-11	R2195452
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	27-MAY-11	27-MAY-11	R2195452

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1009420-1 ANB 10							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Total Metals by ICP-MS							
Phosphorus (P)-Total	<0.20		0.20	mg/L	27-MAY-11	27-MAY-11	R2195452
Potassium (K)-Total	1.20		0.020	mg/L	27-MAY-11	27-MAY-11	R2195452
Rubidium (Rb)-Total	0.00111		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Selenium (Se)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Silicon (Si)-Total	0.939		0.050	mg/L	27-MAY-11	27-MAY-11	R2195452
Silver (Ag)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Sodium (Na)-Total	3.83		0.030	mg/L	27-MAY-11	27-MAY-11	R2195452
Strontium (Sr)-Total	0.0461		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Thorium (Th)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Tin (Sn)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Titanium (Ti)-Total	0.00302		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Tungsten (W)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Uranium (U)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Vanadium (V)-Total	0.00033		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	27-MAY-11	27-MAY-11	R2195452
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	27-MAY-11	27-MAY-11	R2195452
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0023		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Antimony (Sb)-Dissolved	0.00022		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Arsenic (As)-Dissolved	0.00099		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Barium (Ba)-Dissolved	0.0105		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Boron (B)-Dissolved	<0.010		0.010	mg/L	26-MAY-11	28-MAY-11	R2195501
Cadmium (Cd)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Calcium (Ca)-Dissolved	16.8		0.050	mg/L	26-MAY-11	28-MAY-11	R2195501
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Copper (Cu)-Dissolved	0.00106		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	26-MAY-11	28-MAY-11	R2195501
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	26-MAY-11	28-MAY-11	R2195501
Lithium (Li)-Dissolved	0.0026		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Magnesium (Mg)-Dissolved	7.35		0.010	mg/L	26-MAY-11	28-MAY-11	R2195501
Manganese (Mn)-Dissolved	0.00017		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	26-MAY-11	28-MAY-11	R2195501
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	26-MAY-11	28-MAY-11	R2195501
Potassium (K)-Dissolved	1.14		0.020	mg/L	26-MAY-11	28-MAY-11	R2195501
Rubidium (Rb)-Dissolved	0.00091		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	26-MAY-11	28-MAY-11	R2195501
Silicon (Si)-Dissolved	0.942		0.050	mg/L	26-MAY-11	28-MAY-11	R2195501
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Sodium (Na)-Dissolved	3.72		0.020	mg/L	26-MAY-11	28-MAY-11	R2195501
Strontium (Sr)-Dissolved	0.0459		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1009420-1 ANB 10							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Vanadium (V)-Dissolved	0.00051		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	26-MAY-11	28-MAY-11	R2195501
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	2.88		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	1.78		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	70.9		1.0	mg/L		27-MAY-11	R2195130
Bicarbonate (HCO3)	86.5		2.0	mg/L		27-MAY-11	R2195130
Carbonate (CO3)	<0.60		0.60	mg/L		27-MAY-11	R2195130
Hydroxide (OH)	<0.40		0.40	mg/L		27-MAY-11	R2195130
Conductivity							
Conductivity	157		0.40	umhos/cm		27-MAY-11	R2195130
pH							
pH	8.19		0.10	pH units		27-MAY-11	R2195130
L1009420-2 ANB 09							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	4.69		0.50	mg/L		27-MAY-11	R2195808
Fluoride							
Fluoride	<0.10		0.10	mg/L		27-MAY-11	R2195808
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		27-MAY-11	R2195808
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		27-MAY-11	R2195808
Sulfate							
Sulfate	6.27		0.50	mg/L		27-MAY-11	R2195808
Miscellaneous Parameters							
Acidity (as CaCO3)	1.9		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		06-JUN-11	R2199657
Bromide (Br)	<0.10		0.10	mg/L		27-MAY-11	R2195808
BOD Carbonaceous	<1.0		1.0	mg/L	26-MAY-11	31-MAY-11	R2196137
Colour, True	14.1		5.0	CU		28-MAY-11	R2196539
Dissolved Organic Carbon	10.0		1.0	mg/L		07-JUN-11	R2200416
Hardness (as CaCO3)	72.2		0.30	mg/L		30-MAY-11	
Hardness (as CaCO3)	72.2		0.20	mg/L		30-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	30-MAY-11	30-MAY-11	R2196940
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		26-MAY-11	
Phosphorus (P)-Total	0.042		0.010	mg/L		27-MAY-11	R2195667
Silica, Reactive (as SiO2)	1.25		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	94.0		5.0	mg/L		30-MAY-11	R2196199
Total Kjeldahl Nitrogen	0.56		0.20	mg/L	26-MAY-11	31-MAY-11	R2196526
Total Organic Carbon	10.0		1.0	mg/L		07-JUN-11	R2200416

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1009420-2 ANB 09							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Total Suspended Solids	5.0		5.0	mg/L		30-MAY-11	R2196199
Turbidity	2.89		0.10	NTU		27-MAY-11	R2194531
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.139		0.0050	mg/L	27-MAY-11	27-MAY-11	R2195452
Antimony (Sb)-Total	0.00026		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Arsenic (As)-Total	0.00099		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Barium (Ba)-Total	0.0123		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Boron (B)-Total	0.010		0.010	mg/L	27-MAY-11	27-MAY-11	R2195452
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	27-MAY-11	27-MAY-11	R2195452
Calcium (Ca)-Total	18.4		0.10	mg/L	27-MAY-11	27-MAY-11	R2195452
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Copper (Cu)-Total	0.00168		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Iron (Fe)-Total	0.18		0.10	mg/L	27-MAY-11	27-MAY-11	R2195452
Lead (Pb)-Total	0.000117		0.000090	mg/L	27-MAY-11	27-MAY-11	R2195452
Lithium (Li)-Total	0.0023		0.0020	mg/L	27-MAY-11	27-MAY-11	R2195452
Magnesium (Mg)-Total	7.67		0.010	mg/L	27-MAY-11	27-MAY-11	R2195452
Manganese (Mn)-Total	0.0177		0.00030	mg/L	27-MAY-11	27-MAY-11	R2195452
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	27-MAY-11	27-MAY-11	R2195452
Phosphorus (P)-Total	<0.20		0.20	mg/L	27-MAY-11	27-MAY-11	R2195452
Potassium (K)-Total	1.31		0.020	mg/L	27-MAY-11	27-MAY-11	R2195452
Rubidium (Rb)-Total	0.00130		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Selenium (Se)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Silicon (Si)-Total	1.04		0.050	mg/L	27-MAY-11	27-MAY-11	R2195452
Silver (Ag)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Sodium (Na)-Total	3.77		0.030	mg/L	27-MAY-11	27-MAY-11	R2195452
Strontium (Sr)-Total	0.0467		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Thorium (Th)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Tin (Sn)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Titanium (Ti)-Total	0.00613		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Tungsten (W)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Uranium (U)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Vanadium (V)-Total	0.00049		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	27-MAY-11	27-MAY-11	R2195452
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	27-MAY-11	27-MAY-11	R2195452
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0067		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Antimony (Sb)-Dissolved	0.00044		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Arsenic (As)-Dissolved	0.00087		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Barium (Ba)-Dissolved	0.0106		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Boron (B)-Dissolved	<0.010		0.010	mg/L	26-MAY-11	28-MAY-11	R2195501
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	26-MAY-11	28-MAY-11	R2195501
Calcium (Ca)-Dissolved	17.0		0.050	mg/L	26-MAY-11	28-MAY-11	R2195501
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1009420-2 ANB 09							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Copper (Cu)-Dissolved	0.00079		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	26-MAY-11	28-MAY-11	R2195501
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	26-MAY-11	28-MAY-11	R2195501
Lithium (Li)-Dissolved	0.0021		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Magnesium (Mg)-Dissolved	7.21		0.010	mg/L	26-MAY-11	28-MAY-11	R2195501
Manganese (Mn)-Dissolved	0.00025		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	26-MAY-11	28-MAY-11	R2195501
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	26-MAY-11	28-MAY-11	R2195501
Potassium (K)-Dissolved	1.22		0.020	mg/L	26-MAY-11	28-MAY-11	R2195501
Rubidium (Rb)-Dissolved	0.00094		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	26-MAY-11	28-MAY-11	R2195501
Silicon (Si)-Dissolved	0.839		0.050	mg/L	26-MAY-11	28-MAY-11	R2195501
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Sodium (Na)-Dissolved	3.38		0.020	mg/L	26-MAY-11	28-MAY-11	R2195501
Strontium (Sr)-Dissolved	0.0447		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Vanadium (V)-Dissolved	0.00071		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Zinc (Zn)-Dissolved	<0.00020		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	26-MAY-11	28-MAY-11	R2195501
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	2.69		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	1.67		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	70.3		1.0	mg/L		27-MAY-11	R2195130
Bicarbonate (HCO3)	85.8		2.0	mg/L		27-MAY-11	R2195130
Carbonate (CO3)	<0.60		0.60	mg/L		27-MAY-11	R2195130
Hydroxide (OH)	<0.40		0.40	mg/L		27-MAY-11	R2195130
Conductivity							
Conductivity	158		0.40	umhos/cm		27-MAY-11	R2195130
pH							
pH	8.18		0.10	pH units		27-MAY-11	R2195130
L1009420-3 ANB 08							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	4.67		0.50	mg/L		27-MAY-11	R2195808
Fluoride							
Fluoride	<0.10		0.10	mg/L		27-MAY-11	R2195808
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		27-MAY-11	R2195808

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1009420-3 ANB 08							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		27-MAY-11	R2195808
Sulfate							
Sulfate	6.02		0.50	mg/L		27-MAY-11	R2195808
Miscellaneous Parameters							
Acidity (as CaCO3)	1.7		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		06-JUN-11	R2199657
Bromide (Br)	<0.10		0.10	mg/L		27-MAY-11	R2195808
BOD Carbonaceous	<1.0		1.0	mg/L	26-MAY-11	31-MAY-11	R2196137
Colour, True	14.6		5.0	CU		28-MAY-11	R2196539
Dissolved Organic Carbon	10.0		1.0	mg/L		07-JUN-11	R2200416
Hardness (as CaCO3)	72.7		0.30	mg/L		30-MAY-11	
Hardness (as CaCO3)	72.7		0.20	mg/L		30-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	30-MAY-11	30-MAY-11	R2196940
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		26-MAY-11	
Phosphorus (P)-Total	0.012		0.010	mg/L		27-MAY-11	R2195667
Silica, Reactive (as SiO2)	1.28		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	106		5.0	mg/L		30-MAY-11	R2196199
Total Kjeldahl Nitrogen	0.60		0.20	mg/L	26-MAY-11	31-MAY-11	R2196526
Total Organic Carbon	10.1		1.0	mg/L		07-JUN-11	R2200416
Total Suspended Solids	5.0		5.0	mg/L		30-MAY-11	R2196199
Turbidity	2.87		0.10	NTU		27-MAY-11	R2194531
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.141		0.0050	mg/L	27-MAY-11	27-MAY-11	R2195452
Antimony (Sb)-Total	0.00022		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Arsenic (As)-Total	0.00098		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Barium (Ba)-Total	0.0123		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Boron (B)-Total	0.011		0.010	mg/L	27-MAY-11	27-MAY-11	R2195452
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	27-MAY-11	27-MAY-11	R2195452
Calcium (Ca)-Total	17.8		0.10	mg/L	27-MAY-11	27-MAY-11	R2195452
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Copper (Cu)-Total	0.00096		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Iron (Fe)-Total	0.19		0.10	mg/L	27-MAY-11	27-MAY-11	R2195452
Lead (Pb)-Total	<0.000090		0.000090	mg/L	27-MAY-11	27-MAY-11	R2195452
Lithium (Li)-Total	0.0025		0.0020	mg/L	27-MAY-11	27-MAY-11	R2195452
Magnesium (Mg)-Total	7.69		0.010	mg/L	27-MAY-11	27-MAY-11	R2195452
Manganese (Mn)-Total	0.0162		0.00030	mg/L	27-MAY-11	27-MAY-11	R2195452
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	27-MAY-11	27-MAY-11	R2195452
Phosphorus (P)-Total	<0.20		0.20	mg/L	27-MAY-11	27-MAY-11	R2195452
Potassium (K)-Total	1.32		0.020	mg/L	27-MAY-11	27-MAY-11	R2195452
Rubidium (Rb)-Total	0.00132		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Selenium (Se)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Silicon (Si)-Total	1.07		0.050	mg/L	27-MAY-11	27-MAY-11	R2195452
Silver (Ag)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Sodium (Na)-Total	3.58		0.030	mg/L	27-MAY-11	27-MAY-11	R2195452

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1009420-3 ANB 08							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Total Metals by ICP-MS							
Strontium (Sr)-Total	0.0445		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Thorium (Th)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Tin (Sn)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Titanium (Ti)-Total	0.00644		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Tungsten (W)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Uranium (U)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Vanadium (V)-Total	0.00046		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	27-MAY-11	27-MAY-11	R2195452
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	27-MAY-11	27-MAY-11	R2195452
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0048		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Antimony (Sb)-Dissolved	0.00039		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Arsenic (As)-Dissolved	0.00092		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Barium (Ba)-Dissolved	0.0104		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Boron (B)-Dissolved	<0.010		0.010	mg/L	26-MAY-11	28-MAY-11	R2195501
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	26-MAY-11	28-MAY-11	R2195501
Calcium (Ca)-Dissolved	17.1		0.050	mg/L	26-MAY-11	28-MAY-11	R2195501
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Copper (Cu)-Dissolved	0.00107		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	26-MAY-11	28-MAY-11	R2195501
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	26-MAY-11	28-MAY-11	R2195501
Lithium (Li)-Dissolved	0.0029		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Magnesium (Mg)-Dissolved	7.30		0.010	mg/L	26-MAY-11	28-MAY-11	R2195501
Manganese (Mn)-Dissolved	0.00022		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	26-MAY-11	28-MAY-11	R2195501
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	26-MAY-11	28-MAY-11	R2195501
Potassium (K)-Dissolved	1.21		0.020	mg/L	26-MAY-11	28-MAY-11	R2195501
Rubidium (Rb)-Dissolved	0.00093		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	26-MAY-11	28-MAY-11	R2195501
Silicon (Si)-Dissolved	0.876		0.050	mg/L	26-MAY-11	28-MAY-11	R2195501
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Sodium (Na)-Dissolved	3.51		0.020	mg/L	26-MAY-11	28-MAY-11	R2195501
Strontium (Sr)-Dissolved	0.0447		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Vanadium (V)-Dissolved	0.00078		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	26-MAY-11	28-MAY-11	R2195501
Chlorophyll a, Pheophytin by fluorometry							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1009420-3 ANB 08							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	2.58		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	1.65		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	70.4		1.0	mg/L		27-MAY-11	R2195130
Bicarbonate (HCO3)	85.9		2.0	mg/L		27-MAY-11	R2195130
Carbonate (CO3)	<0.60		0.60	mg/L		27-MAY-11	R2195130
Hydroxide (OH)	<0.40		0.40	mg/L		27-MAY-11	R2195130
Conductivity							
Conductivity	157		0.40	umhos/cm		27-MAY-11	R2195130
pH							
pH	8.18		0.10	pH units		27-MAY-11	R2195130
L1009420-4 ANB 07							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	4.56		0.50	mg/L		27-MAY-11	R2195808
Fluoride							
Fluoride	<0.10		0.10	mg/L		27-MAY-11	R2195808
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		27-MAY-11	R2195808
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		27-MAY-11	R2195808
Sulfate							
Sulfate	6.05		0.50	mg/L		27-MAY-11	R2195808
Miscellaneous Parameters							
Acidity (as CaCO3)	1.8		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		06-JUN-11	R2199657
Bromide (Br)	<0.10		0.10	mg/L		27-MAY-11	R2195808
BOD Carbonaceous	<1.0		1.0	mg/L	26-MAY-11	31-MAY-11	R2196137
Colour, True	16.4		5.0	CU		28-MAY-11	R2196539
Dissolved Organic Carbon	10.1		1.0	mg/L		07-JUN-11	R2200416
Hardness (as CaCO3)	72.7		0.20	mg/L		30-MAY-11	
Hardness (as CaCO3)	72.7		0.30	mg/L		30-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	30-MAY-11	30-MAY-11	R2196940
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		26-MAY-11	
Phosphorus (P)-Total	0.012		0.010	mg/L		27-MAY-11	R2195667
Silica, Reactive (as SiO2)	1.25		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	102		5.0	mg/L		30-MAY-11	R2196199
Total Kjeldahl Nitrogen	0.62		0.20	mg/L	26-MAY-11	31-MAY-11	R2196526
Total Organic Carbon	10.1		1.0	mg/L		07-JUN-11	R2200416
Total Suspended Solids	7.0		5.0	mg/L		30-MAY-11	R2196199
Turbidity	4.09		0.10	NTU		27-MAY-11	R2194531
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.226		0.0050	mg/L	27-MAY-11	27-MAY-11	R2195452
Antimony (Sb)-Total	0.00024		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Arsenic (As)-Total	0.00101		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Barium (Ba)-Total	0.0129		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1009420-4 ANB 07							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Total Metals by ICP-MS							
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Boron (B)-Total	0.010		0.010	mg/L	27-MAY-11	27-MAY-11	R2195452
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	27-MAY-11	27-MAY-11	R2195452
Calcium (Ca)-Total	17.6		0.10	mg/L	27-MAY-11	27-MAY-11	R2195452
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Copper (Cu)-Total	0.00107		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Iron (Fe)-Total	0.28		0.10	mg/L	27-MAY-11	27-MAY-11	R2195452
Lead (Pb)-Total	0.000128		0.000090	mg/L	27-MAY-11	27-MAY-11	R2195452
Lithium (Li)-Total	0.0029		0.0020	mg/L	27-MAY-11	27-MAY-11	R2195452
Magnesium (Mg)-Total	7.69		0.010	mg/L	27-MAY-11	27-MAY-11	R2195452
Manganese (Mn)-Total	0.0196		0.00030	mg/L	27-MAY-11	27-MAY-11	R2195452
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	27-MAY-11	27-MAY-11	R2195452
Phosphorus (P)-Total	<0.20		0.20	mg/L	27-MAY-11	27-MAY-11	R2195452
Potassium (K)-Total	1.31		0.020	mg/L	27-MAY-11	27-MAY-11	R2195452
Rubidium (Rb)-Total	0.00152		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Selenium (Se)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Silicon (Si)-Total	1.17		0.050	mg/L	27-MAY-11	27-MAY-11	R2195452
Silver (Ag)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Sodium (Na)-Total	3.52		0.030	mg/L	27-MAY-11	27-MAY-11	R2195452
Strontium (Sr)-Total	0.0454		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Thorium (Th)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Tin (Sn)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Titanium (Ti)-Total	0.00998		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Tungsten (W)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Uranium (U)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Vanadium (V)-Total	0.00064		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	27-MAY-11	27-MAY-11	R2195452
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	27-MAY-11	27-MAY-11	R2195452
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0052		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Antimony (Sb)-Dissolved	0.00044		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Arsenic (As)-Dissolved	0.00088		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Barium (Ba)-Dissolved	0.0105		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Boron (B)-Dissolved	<0.010		0.010	mg/L	26-MAY-11	28-MAY-11	R2195501
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	26-MAY-11	28-MAY-11	R2195501
Calcium (Ca)-Dissolved	17.1		0.050	mg/L	26-MAY-11	28-MAY-11	R2195501
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Copper (Cu)-Dissolved	0.00069		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	26-MAY-11	28-MAY-11	R2195501
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	26-MAY-11	28-MAY-11	R2195501
Lithium (Li)-Dissolved	0.0027		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1009420-4 ANB 07							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Magnesium (Mg)-Dissolved	7.28		0.010	mg/L	26-MAY-11	28-MAY-11	R2195501
Manganese (Mn)-Dissolved	0.00027		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	26-MAY-11	28-MAY-11	R2195501
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	26-MAY-11	28-MAY-11	R2195501
Potassium (K)-Dissolved	1.21		0.020	mg/L	26-MAY-11	28-MAY-11	R2195501
Rubidium (Rb)-Dissolved	0.00090		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	26-MAY-11	28-MAY-11	R2195501
Silicon (Si)-Dissolved	0.766		0.050	mg/L	26-MAY-11	28-MAY-11	R2195501
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Sodium (Na)-Dissolved	3.40		0.020	mg/L	26-MAY-11	28-MAY-11	R2195501
Strontium (Sr)-Dissolved	0.0433		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Titanium (Ti)-Dissolved	0.00022		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Vanadium (V)-Dissolved	0.00065		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	26-MAY-11	28-MAY-11	R2195501
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	2.80		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	1.97		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	69.6		1.0	mg/L		28-MAY-11	R2196148
Bicarbonate (HCO3)	84.9		2.0	mg/L		28-MAY-11	R2196148
Carbonate (CO3)	<0.60		0.60	mg/L		28-MAY-11	R2196148
Hydroxide (OH)	<0.40		0.40	mg/L		28-MAY-11	R2196148
Conductivity							
Conductivity	155		0.40	umhos/cm		28-MAY-11	R2196148
pH							
pH	7.91		0.10	pH units		28-MAY-11	R2196148
L1009420-5 DUP 02							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	4.71		0.50	mg/L		27-MAY-11	R2195808
Fluoride							
Fluoride	<0.10		0.10	mg/L		27-MAY-11	R2195808
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		27-MAY-11	R2195808
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		27-MAY-11	R2195808
Sulfate							
Sulfate	6.28		0.50	mg/L		27-MAY-11	R2195808
Miscellaneous Parameters							
Acidity (as CaCO3)	1.8		1.0	mg/L		10-JUN-11	R2202438

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1009420-5 DUP 02							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Ammonia as N	<0.050		0.050	mg/L		06-JUN-11	R2199657
Bromide (Br)	<0.10		0.10	mg/L		27-MAY-11	R2195808
BOD Carbonaceous	<1.0		1.0	mg/L	26-MAY-11	31-MAY-11	R2196137
Colour, True	10.5		5.0	CU		28-MAY-11	R2196539
Dissolved Organic Carbon	10.1		1.0	mg/L		07-JUN-11	R2200416
Hardness (as CaCO3)	72.9		0.20	mg/L		30-MAY-11	
Hardness (as CaCO3)	72.9		0.30	mg/L		30-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	30-MAY-11	30-MAY-11	R2196940
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		26-MAY-11	
Phosphorus (P)-Total	0.040		0.010	mg/L		27-MAY-11	R2195667
Silica, Reactive (as SiO2)	1.25		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	118		5.0	mg/L		30-MAY-11	R2196199
Total Kjeldahl Nitrogen	0.55		0.20	mg/L	26-MAY-11	31-MAY-11	R2196526
Total Organic Carbon	10.5		1.0	mg/L		07-JUN-11	R2200416
Total Suspended Solids	5.0		5.0	mg/L		30-MAY-11	R2196199
Turbidity	3.02		0.10	NTU		27-MAY-11	R2194531
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.139		0.0050	mg/L	27-MAY-11	27-MAY-11	R2195452
Antimony (Sb)-Total	0.00027		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Arsenic (As)-Total	0.00099		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Barium (Ba)-Total	0.0123		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Boron (B)-Total	0.010		0.010	mg/L	27-MAY-11	27-MAY-11	R2195452
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	27-MAY-11	27-MAY-11	R2195452
Calcium (Ca)-Total	18.3		0.10	mg/L	27-MAY-11	27-MAY-11	R2195452
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Copper (Cu)-Total	0.00180		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Iron (Fe)-Total	0.18		0.10	mg/L	27-MAY-11	27-MAY-11	R2195452
Lead (Pb)-Total	0.000111		0.000090	mg/L	27-MAY-11	27-MAY-11	R2195452
Lithium (Li)-Total	0.0029		0.0020	mg/L	27-MAY-11	27-MAY-11	R2195452
Magnesium (Mg)-Total	7.79		0.010	mg/L	27-MAY-11	27-MAY-11	R2195452
Manganese (Mn)-Total	0.0175		0.00030	mg/L	27-MAY-11	27-MAY-11	R2195452
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	27-MAY-11	27-MAY-11	R2195452
Phosphorus (P)-Total	<0.20		0.20	mg/L	27-MAY-11	27-MAY-11	R2195452
Potassium (K)-Total	1.33		0.020	mg/L	27-MAY-11	27-MAY-11	R2195452
Rubidium (Rb)-Total	0.00127		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Selenium (Se)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Silicon (Si)-Total	1.06		0.050	mg/L	27-MAY-11	27-MAY-11	R2195452
Silver (Ag)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Sodium (Na)-Total	3.72		0.030	mg/L	27-MAY-11	27-MAY-11	R2195452
Strontium (Sr)-Total	0.0458		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Thorium (Th)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Tin (Sn)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Titanium (Ti)-Total	0.00603		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1009420-5 DUP 02							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Total Metals by ICP-MS							
Tungsten (W)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Uranium (U)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Vanadium (V)-Total	0.00048		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	27-MAY-11	27-MAY-11	R2195452
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	27-MAY-11	27-MAY-11	R2195452
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0045		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Antimony (Sb)-Dissolved	0.00044		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Arsenic (As)-Dissolved	0.00089		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Barium (Ba)-Dissolved	0.0105		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Boron (B)-Dissolved	<0.010		0.010	mg/L	26-MAY-11	28-MAY-11	R2195501
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	26-MAY-11	28-MAY-11	R2195501
Calcium (Ca)-Dissolved	17.2		0.050	mg/L	26-MAY-11	28-MAY-11	R2195501
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Copper (Cu)-Dissolved	0.00073		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	26-MAY-11	28-MAY-11	R2195501
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	26-MAY-11	28-MAY-11	R2195501
Lithium (Li)-Dissolved	0.0026		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Magnesium (Mg)-Dissolved	7.26		0.010	mg/L	26-MAY-11	28-MAY-11	R2195501
Manganese (Mn)-Dissolved	0.00024		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	26-MAY-11	28-MAY-11	R2195501
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	26-MAY-11	28-MAY-11	R2195501
Potassium (K)-Dissolved	1.22		0.020	mg/L	26-MAY-11	28-MAY-11	R2195501
Rubidium (Rb)-Dissolved	0.00094		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	26-MAY-11	28-MAY-11	R2195501
Silicon (Si)-Dissolved	0.796		0.050	mg/L	26-MAY-11	28-MAY-11	R2195501
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Sodium (Na)-Dissolved	3.44		0.020	mg/L	26-MAY-11	28-MAY-11	R2195501
Strontium (Sr)-Dissolved	0.0451		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Vanadium (V)-Dissolved	0.00070		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	26-MAY-11	28-MAY-11	R2195501
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	2.78		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	1.74		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	70.3		1.0	mg/L		27-MAY-11	R2195130
Bicarbonate (HCO3)	85.7		2.0	mg/L		27-MAY-11	R2195130
Carbonate (CO3)	<0.60		0.60	mg/L		27-MAY-11	R2195130

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1009420-5 DUP 02 Sampled By: JR on 24-MAY-11 @ 12:40 Matrix: WATER							
Alkalinity Hydroxide (OH)	<0.40		0.40	mg/L		27-MAY-11	R2195130
Conductivity Conductivity	159		0.40	umhos/cm		27-MAY-11	R2195130
pH pH	8.19		0.10	pH units		27-MAY-11	R2195130
L1009420-6 TRB 05 Sampled By: JR on 24-MAY-11 @ 12:40 Matrix: WATER							
Anions by IC							
Chloride Chloride	<0.50		0.50	mg/L		27-MAY-11	R2195808
Fluoride Fluoride	<0.10		0.10	mg/L		27-MAY-11	R2195808
Nitrate as N Nitrate-N	<0.050		0.050	mg/L		27-MAY-11	R2195808
Nitrite as N Nitrite-N	<0.050		0.050	mg/L		27-MAY-11	R2195808
Sulfate Sulfate	<0.50		0.50	mg/L		27-MAY-11	R2195808
Miscellaneous Parameters							
Acidity (as CaCO3)	1.3		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		06-JUN-11	R2199657
Bromide (Br)	<0.10		0.10	mg/L		27-MAY-11	R2195808
BOD Carbonaceous	<1.0		1.0	mg/L	26-MAY-11	31-MAY-11	R2196137
Colour, True	<5.0		5.0	CU		28-MAY-11	R2196539
Dissolved Organic Carbon	<1.0		1.0	mg/L		07-JUN-11	R2200416
Hardness (as CaCO3)	<0.20		0.20	mg/L		30-MAY-11	
Hardness (as CaCO3)	<0.30		0.30	mg/L		30-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	30-MAY-11	30-MAY-11	R2196940
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		26-MAY-11	
Phosphorus (P)-Total	<0.010		0.010	mg/L		27-MAY-11	R2195667
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	<5.0		5.0	mg/L		30-MAY-11	R2196199
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	26-MAY-11	31-MAY-11	R2196526
Total Organic Carbon	<1.0		1.0	mg/L		07-JUN-11	R2200416
Total Suspended Solids	<5.0		5.0	mg/L		30-MAY-11	R2196199
Turbidity	0.12		0.10	NTU		27-MAY-11	R2194531
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	27-MAY-11	27-MAY-11	R2195452
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Arsenic (As)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Barium (Ba)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Boron (B)-Total	<0.010		0.010	mg/L	27-MAY-11	27-MAY-11	R2195452
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	27-MAY-11	27-MAY-11	R2195452
Calcium (Ca)-Total	<0.10		0.10	mg/L	27-MAY-11	27-MAY-11	R2195452
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1009420-6 TRB 05							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Total Metals by ICP-MS							
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Copper (Cu)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Iron (Fe)-Total	<0.10		0.10	mg/L	27-MAY-11	27-MAY-11	R2195452
Lead (Pb)-Total	<0.000090		0.000090	mg/L	27-MAY-11	27-MAY-11	R2195452
Lithium (Li)-Total	<0.0020		0.0020	mg/L	27-MAY-11	27-MAY-11	R2195452
Magnesium (Mg)-Total	<0.010		0.010	mg/L	27-MAY-11	27-MAY-11	R2195452
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	27-MAY-11	27-MAY-11	R2195452
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	27-MAY-11	27-MAY-11	R2195452
Phosphorus (P)-Total	<0.20		0.20	mg/L	27-MAY-11	27-MAY-11	R2195452
Potassium (K)-Total	<0.020		0.020	mg/L	27-MAY-11	27-MAY-11	R2195452
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Selenium (Se)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Silicon (Si)-Total	<0.050		0.050	mg/L	27-MAY-11	27-MAY-11	R2195452
Silver (Ag)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Sodium (Na)-Total	<0.030		0.030	mg/L	27-MAY-11	27-MAY-11	R2195452
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Thorium (Th)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Tin (Sn)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Tungsten (W)-Total	<0.0010		0.0010	mg/L	27-MAY-11	27-MAY-11	R2195452
Uranium (U)-Total	<0.00010		0.00010	mg/L	27-MAY-11	27-MAY-11	R2195452
Vanadium (V)-Total	<0.00020		0.00020	mg/L	27-MAY-11	27-MAY-11	R2195452
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	27-MAY-11	27-MAY-11	R2195452
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	27-MAY-11	27-MAY-11	R2195452
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Antimony (Sb)-Dissolved	0.00040		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Boron (B)-Dissolved	<0.010		0.010	mg/L	26-MAY-11	28-MAY-11	R2195501
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	26-MAY-11	28-MAY-11	R2195501
Calcium (Ca)-Dissolved	<0.050		0.050	mg/L	26-MAY-11	28-MAY-11	R2195501
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	26-MAY-11	28-MAY-11	R2195501
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	26-MAY-11	28-MAY-11	R2195501
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	26-MAY-11	28-MAY-11	R2195501
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	26-MAY-11	28-MAY-11	R2195501
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	26-MAY-11	28-MAY-11	R2195501
Potassium (K)-Dissolved	<0.020		0.020	mg/L	26-MAY-11	28-MAY-11	R2195501
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1009420-6 TRB 05							
Sampled By: JR on 24-MAY-11 @ 12:40							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	26-MAY-11	28-MAY-11	R2195501
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	26-MAY-11	28-MAY-11	R2195501
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	26-MAY-11	28-MAY-11	R2195501
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	26-MAY-11	28-MAY-11	R2195501
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	26-MAY-11	28-MAY-11	R2195501
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	26-MAY-11	28-MAY-11	R2195501
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	26-MAY-11	28-MAY-11	R2195501
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	<0.10		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO ₃)	2.0		1.0	mg/L		01-JUN-11	R2197288
Bicarbonate (HCO ₃)	2.5		2.0	mg/L		01-JUN-11	R2197288
Carbonate (CO ₃)	<0.60		0.60	mg/L		01-JUN-11	R2197288
Hydroxide (OH)	<0.40		0.40	mg/L		01-JUN-11	R2197288
Conductivity							
Conductivity	0.88		0.40	umhos/cm		01-JUN-11	R2197367
pH							
pH	6.02		0.10	pH units		27-MAY-11	R2195130

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B
Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically.			
BR-IC-WP	Water	Bromide	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
CHL,PHEO-FLUORO-WP	Water	Chlorophyll a, Pheophytin by fluorometry	EPA 445.0
Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification.			
CL-IC-WP	Water	Chloride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR
This analysis is carried out using procedures adapted from APHA 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. Colour is pH dependent. Unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit.			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.			
EC-WP	Water	Conductivity	APHA 2510B
Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	HARDNESS CALCULATED
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
F-IC-WP	Water	Fluoride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
		Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
		Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
		Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.	
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
		Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.	
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-WP	Water	Nitrite as N	EPA 300.1 IC
NO3-IC-WP	Water	Nitrate as N	EPA 300.1 IC
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
		This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.	
PH-WP	Water	pH	APHA 4500H
		The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.	
SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2
		This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.	
SO4-IC-WP	Water	Sulfate	EPA 300.1 IC
		This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".	
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540C
		The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.	
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540D
		The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.	
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1009420

Report Date: 13-JUN-11

Page 1 of 20

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R2200530							
WG1292189-2	CVS							
Acidity (as CaCO3)			104		%		85-115	03-JUN-11
WG1292189-3	DUP	L1007855-2						
Acidity (as CaCO3)		1.6	1.6		mg/L	0.32	400	03-JUN-11
WG1292189-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	03-JUN-11
Batch	R2202438							
WG1294090-2	CVS							
Acidity (as CaCO3)			101		%		85-115	10-JUN-11
WG1294090-3	DUP	L1010047-1						
Acidity (as CaCO3)		2.2	2.2		mg/L	0.0	400	10-JUN-11
WG1294090-4	DUP	L1012148-11						
Acidity (as CaCO3)		2.0	1.9		mg/L	3.3	400	10-JUN-11
WG1294090-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	10-JUN-11
ALK-TOT-WP								
	Water							
Batch	R2195130							
WG1286226-3	CVS							
Alkalinity, Total (as CaCO3)			103		%		85-115	27-MAY-11
Batch	R2196148							
WG1286686-3	CVS							
Alkalinity, Total (as CaCO3)			102		%		85-115	28-MAY-11
WG1286686-7	CVS							
Alkalinity, Total (as CaCO3)			108		%		85-115	28-MAY-11
WG1286686-4	DUP	L1009855-1						
Alkalinity, Total (as CaCO3)		432	432		mg/L	0.14	20	28-MAY-11
Bicarbonate (HCO3)		527	527		mg/L	0.14	25	28-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	28-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	28-MAY-11
WG1286686-5	DUP	L1010124-1						
Alkalinity, Total (as CaCO3)		440	439		mg/L	0.14	20	28-MAY-11
Bicarbonate (HCO3)		536	536		mg/L	0.14	25	28-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	28-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	28-MAY-11



Quality Control Report

Workorder: L1009420

Report Date: 13-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ALK-TOT-WP		Water						
Batch R2197288								
WG1288720-3	CVS							
Alkalinity, Total (as CaCO3)			102		%		85-115	01-JUN-11
WG1288720-8	DUP	L1010853-4						
Alkalinity, Total (as CaCO3)		381	381		mg/L	0.053	20	01-JUN-11
Bicarbonate (HCO3)		464	465		mg/L	0.053	25	01-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	01-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	01-JUN-11
BR-IC-WP		Water						
Batch R2195808								
WG1286939-2	LCS							
Bromide (Br)			101		%		85-115	27-MAY-11
WG1286939-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	27-MAY-11
C-DIS-ORG-WP		Water						
Batch R2200416								
WG1292079-2	DUP	L1012274-3						
Dissolved Organic Carbon		15.5	15.3		mg/L	1.3	20	08-JUN-11
WG1292079-1	MB							
Dissolved Organic Carbon			<1.0		mg/L		1	07-JUN-11
C-TOT-ORG-WP		Water						
Batch R2200416								
WG1292089-3	DUP	L1009623-3						
Total Organic Carbon		13.7	13.3		mg/L	2.8	20	07-JUN-11
WG1292089-1	MB							
Total Organic Carbon			<1.0		mg/L		1	07-JUN-11
CHL,PHEO-FLUORO-WP		Water						
Batch R2196839								
WG1288191-1	CVS							
Chlorophyll a			103		%		65-135	01-JUN-11
WG1288191-2	CVS							
Chlorophyll a			120		%		65-135	01-JUN-11
WG1287097-2	DUP	L1009420-1						
Chlorophyll a		2.88	2.11		ug/L	31	35	01-JUN-11
Phaeophytin a		1.78	1.88		ug/L	5.5	35	01-JUN-11
WG1287097-1	MB							
Chlorophyll a			<0.10		ug/L		0.1	01-JUN-11



Quality Control Report

Workorder: L1009420

Report Date: 13-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CHL,PHEO-FLUORO-WP Water								
Batch	R2196839							
WG1287097-1	MB							
Phaeophytin a			<0.10		ug/L		0.1	01-JUN-11
CL-IC-WP Water								
Batch	R2195808							
WG1286939-3	DUP	L1005975-4						
Chloride		18.9	18.8		mg/L	0.14	20	27-MAY-11
WG1286939-2	LCS							
Chloride			100		%		85-115	27-MAY-11
WG1286939-1	MB							
Chloride			<0.50		mg/L		0.5	27-MAY-11
WG1286939-4	MS	L1005975-4						
Chloride			103		%		75-125	27-MAY-11
COLOUR-TRUE-WP Water								
Batch	R2196539							
WG1286363-3	DUP	L1008742-1						
Colour, True		30.1	30.6		CU	1.6	20	28-MAY-11
WG1286363-2	LCS							
Colour, True			93		%		85-115	28-MAY-11
WG1286363-1	MB							
Colour, True			<5.0		CU		5	28-MAY-11
CONSULT-BOD-CBOD-WP Water								
Batch	R2196137							
WG1284783-3	DUP	L1009403-2						
BOD Carbonaceous		1.4	1.4		mg/L	0.0	400	31-MAY-11
WG1284783-2	IRM	61-GG						
BOD Carbonaceous			107		%		85-115	31-MAY-11
WG1284783-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	31-MAY-11
EC-WP Water								
Batch	R2195130							
WG1286226-1	CVS							
Conductivity			97		%		90-110	27-MAY-11
WG1286226-5	DUP	L1009429-1						
Conductivity		294	295		umhos/cm	0.068	10	27-MAY-11
WG1286226-6	DUP	L1009387-1						
Conductivity		2910	2910		umhos/cm	0.014	10	27-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-WP		Water						
Batch	R2196148							
WG1286686-1	CVS							
Conductivity			97		%		90-110	28-MAY-11
WG1286686-4	DUP	L1009855-1						
Conductivity		1730	1730		umhos/cm	0.041	10	28-MAY-11
WG1286686-5	DUP	L1010124-1						
Conductivity		779	780		umhos/cm	0.033	10	28-MAY-11
Batch	R2197367							
WG1288805-1	CVS							
Conductivity			99		%		90-110	01-JUN-11
WG1288805-2	DUP	L1008005-7						
Conductivity		0.96	0.96		umhos/cm	0.0	400	01-JUN-11
F-IC-WP		Water						
Batch	R2195808							
WG1286939-2	LCS							
Fluoride			102		%		85-115	27-MAY-11
WG1286939-1	MB							
Fluoride			<0.10		mg/L		0.1	27-MAY-11
HG-D-CVAF-WP		Water						
Batch	R2196940							
WG1288251-7	DUP	L1009420-6						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	30-MAY-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	30-MAY-11
WG1288251-2	LCS							
Mercury (Hg)-Dissolved			98		%		80-120	30-MAY-11
Mercury (Hg)-Dissolved			98		%		80-120	30-MAY-11
WG1288250-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	30-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	30-MAY-11
WG1288251-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	30-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	30-MAY-11
WG1288251-8	MS	L1009420-6						
Mercury (Hg)-Dissolved			102		%		70-130	30-MAY-11
Mercury (Hg)-Dissolved			102		%		70-130	30-MAY-11
HG-T-CVAF-WP		Water						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
	Water							
Batch	R2198344							
WG1289697-3	DUP	L1009186-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-5	DUP	L1010393-5						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-2	LCS							
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
WG1289697-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
WG1289697-4	MS	L1009186-1						
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
WG1289697-6	MS	L1010393-5						
Mercury (Hg)-Total			115		%		70-130	02-JUN-11
Mercury (Hg)-Total			115		%		70-130	02-JUN-11
MET-D-L-MS-WP								
	Water							
Batch	R2195501							
WG1286621-4	DUP	WG1286621-3						
Aluminum (Al)-Dissolved			<0.0020	<0.0020	RPD-NA	mg/L	N/A	400
Antimony (Sb)-Dissolved			0.00429	0.00429		mg/L	0.023	20
Arsenic (As)-Dissolved			0.0965	0.0982		mg/L	1.8	20
Barium (Ba)-Dissolved			0.125	0.124		mg/L	0.22	20
Beryllium (Be)-Dissolved			<0.00020	<0.00020	RPD-NA	mg/L	N/A	400
Bismuth (Bi)-Dissolved			<0.00020	<0.00020	RPD-NA	mg/L	N/A	400
Boron (B)-Dissolved			0.037	0.037		mg/L	1.4	400
Cadmium (Cd)-Dissolved			0.000039	0.000042		mg/L	7.4	400
Calcium (Ca)-Dissolved			149	152		mg/L	2.1	20
Cesium (Cs)-Dissolved			<0.00010	<0.00010	RPD-NA	mg/L	N/A	400
Chromium (Cr)-Dissolved			<0.0020	<0.0020	RPD-NA	mg/L	N/A	400
Cobalt (Co)-Dissolved			0.00611	0.00614		mg/L	0.51	20
Copper (Cu)-Dissolved			0.00317	0.00318		mg/L	0.32	20
Iron (Fe)-Dissolved			0.10	0.10		mg/L	0.65	400



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2195501							
WG1286621-4	DUP	WG1286621-3						
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	400	28-MAY-11
Lithium (Li)-Dissolved		0.0225	0.0231		mg/L	2.5	20	28-MAY-11
Magnesium (Mg)-Dissolved		68.4	68.8		mg/L	0.64	20	28-MAY-11
Manganese (Mn)-Dissolved		0.283	0.280		mg/L	0.78	20	28-MAY-11
Molybdenum (Mo)-Dissolved		0.00247	0.00255		mg/L	3.3	20	28-MAY-11
Nickel (Ni)-Dissolved		0.0069	0.0069		mg/L	0.36	20	28-MAY-11
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	28-MAY-11
Potassium (K)-Dissolved		7.28	7.20		mg/L	1.1	20	28-MAY-11
Rubidium (Rb)-Dissolved		0.00117	0.00119		mg/L	2.1	20	28-MAY-11
Selenium (Se)-Dissolved		0.0014	0.0013		mg/L	10	400	28-MAY-11
Silicon (Si)-Dissolved		8.21	8.30		mg/L	1.0	20	28-MAY-11
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	28-MAY-11
Sodium (Na)-Dissolved		24.3	24.7		mg/L	1.6	20	28-MAY-11
Strontium (Sr)-Dissolved		1.09	1.10		mg/L	0.91	20	28-MAY-11
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	28-MAY-11
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	28-MAY-11
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	28-MAY-11
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	28-MAY-11
Titanium (Ti)-Dissolved		0.00182	0.00202		mg/L	10	20	28-MAY-11
Tungsten (W)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	28-MAY-11
Uranium (U)-Dissolved		0.00242	0.00243		mg/L	0.58	20	28-MAY-11
Vanadium (V)-Dissolved		0.00490	0.00492		mg/L	0.55	20	28-MAY-11
Zinc (Zn)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	28-MAY-11
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	28-MAY-11
WG1286621-2	LCS							
Aluminum (Al)-Dissolved			105		%		80-120	28-MAY-11
Antimony (Sb)-Dissolved			97		%		80-120	28-MAY-11
Arsenic (As)-Dissolved			101		%		80-120	28-MAY-11
Barium (Ba)-Dissolved			106		%		80-120	28-MAY-11
Beryllium (Be)-Dissolved			102		%		80-120	28-MAY-11
Bismuth (Bi)-Dissolved			100		%		80-120	28-MAY-11
Boron (B)-Dissolved			103		%		80-120	28-MAY-11
Cadmium (Cd)-Dissolved			107		%		80-120	28-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2195501							
WG1286621-2	LCS							
Calcium (Ca)-Dissolved			106		%		80-120	28-MAY-11
Cesium (Cs)-Dissolved			109		%		80-120	28-MAY-11
Chromium (Cr)-Dissolved			105		%		80-120	28-MAY-11
Cobalt (Co)-Dissolved			109		%		80-120	28-MAY-11
Copper (Cu)-Dissolved			110		%		80-120	28-MAY-11
Iron (Fe)-Dissolved			103		%		80-120	28-MAY-11
Lead (Pb)-Dissolved			101		%		80-120	28-MAY-11
Lithium (Li)-Dissolved			103		%		80-120	28-MAY-11
Magnesium (Mg)-Dissolved			101		%		80-120	28-MAY-11
Manganese (Mn)-Dissolved			110		%		80-120	28-MAY-11
Molybdenum (Mo)-Dissolved			106		%		80-120	28-MAY-11
Nickel (Ni)-Dissolved			103		%		80-120	28-MAY-11
Phosphorus (P)-Dissolved			105		%		80-120	28-MAY-11
Potassium (K)-Dissolved			104		%		80-120	28-MAY-11
Rubidium (Rb)-Dissolved			109		%		80-120	28-MAY-11
Selenium (Se)-Dissolved			101		%		80-120	28-MAY-11
Silicon (Si)-Dissolved			108		%		80-120	28-MAY-11
Silver (Ag)-Dissolved			104		%		80-120	28-MAY-11
Sodium (Na)-Dissolved			103		%		80-120	28-MAY-11
Strontium (Sr)-Dissolved			109		%		80-120	28-MAY-11
Tellurium (Te)-Dissolved			100		%		80-120	28-MAY-11
Thallium (Tl)-Dissolved			99		%		80-120	28-MAY-11
Thorium (Th)-Dissolved			103		%		80-120	28-MAY-11
Tin (Sn)-Dissolved			103		%		80-120	28-MAY-11
Titanium (Ti)-Dissolved			101		%		80-120	28-MAY-11
Tungsten (W)-Dissolved			103		%		80-120	28-MAY-11
Uranium (U)-Dissolved			109		%		80-120	28-MAY-11
Vanadium (V)-Dissolved			105		%		80-120	28-MAY-11
Zinc (Zn)-Dissolved			104		%		80-120	28-MAY-11
Zirconium (Zr)-Dissolved			107		%		80-120	28-MAY-11
WG1286621-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.02	28-MAY-11
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.001	28-MAY-11
Arsenic (As)-Dissolved			<0.00020		mg/L		0.001	28-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R2195501							
WG1286621-1	MB							
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0005	28-MAY-11
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.001	28-MAY-11
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0005	28-MAY-11
Boron (B)-Dissolved			<0.010		mg/L		0.03	28-MAY-11
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.0002	28-MAY-11
Calcium (Ca)-Dissolved			<0.050		mg/L		0.2	28-MAY-11
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0005	28-MAY-11
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	28-MAY-11
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0005	28-MAY-11
Copper (Cu)-Dissolved			<0.00020		mg/L		0.002	28-MAY-11
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	28-MAY-11
Lead (Pb)-Dissolved			<0.000090		mg/L		0.001	28-MAY-11
Lithium (Li)-Dissolved			<0.0020		mg/L		0.01	28-MAY-11
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.05	28-MAY-11
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.001	28-MAY-11
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0005	28-MAY-11
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.002	28-MAY-11
Phosphorus (P)-Dissolved			<0.10		mg/L		0.5	28-MAY-11
Potassium (K)-Dissolved			<0.020		mg/L		0.1	28-MAY-11
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0005	28-MAY-11
Selenium (Se)-Dissolved			<0.0010		mg/L		0.005	28-MAY-11
Silicon (Si)-Dissolved			<0.050		mg/L		0.3	28-MAY-11
Silver (Ag)-Dissolved			<0.00010		mg/L		0.001	28-MAY-11
Sodium (Na)-Dissolved			<0.020		mg/L		0.05	28-MAY-11
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0005	28-MAY-11
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.001	28-MAY-11
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.005	28-MAY-11
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	28-MAY-11
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0006	28-MAY-11
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.001	28-MAY-11
Tungsten (W)-Dissolved			<0.00020		mg/L		0.002	28-MAY-11
Uranium (U)-Dissolved			<0.00010		mg/L		0.0005	28-MAY-11
Vanadium (V)-Dissolved			<0.00020		mg/L		0.002	28-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2195501							
WG1286621-1	MB							
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.02	28-MAY-11
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.001	28-MAY-11
MET-T-L-MS-WP		Water						
Batch	R2195452							
WG1285777-4	DUP	WG1285777-3						
Aluminum (Al)-Total		0.139	0.127		mg/L	9.5	20	27-MAY-11
Antimony (Sb)-Total		0.00027	0.00025		mg/L	6.2	400	27-MAY-11
Arsenic (As)-Total		0.00099	0.00103		mg/L	3.5	20	27-MAY-11
Barium (Ba)-Total		0.0123	0.0123		mg/L	0.40	20	27-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	27-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	27-MAY-11
Boron (B)-Total		0.010	<0.010	RPD-NA	mg/L	N/A	400	27-MAY-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	27-MAY-11
Calcium (Ca)-Total		18.3	17.9		mg/L	1.9	20	27-MAY-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	27-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	27-MAY-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	27-MAY-11
Copper (Cu)-Total		0.00180	0.00181		mg/L	0.61	20	27-MAY-11
Iron (Fe)-Total		0.18	0.17		mg/L	4.1	400	27-MAY-11
Lead (Pb)-Total		0.000111	0.000121		mg/L	8.6	400	27-MAY-11
Lithium (Li)-Total		0.0029	0.0024		mg/L	19	400	27-MAY-11
Magnesium (Mg)-Total		7.79	7.63		mg/L	2.1	20	27-MAY-11
Manganese (Mn)-Total		0.0175	0.0168		mg/L	3.6	20	27-MAY-11
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	27-MAY-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	27-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	27-MAY-11
Potassium (K)-Total		1.33	1.31		mg/L	1.8	20	27-MAY-11
Rubidium (Rb)-Total		0.00127	0.00130		mg/L	1.8	20	27-MAY-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	27-MAY-11
Silicon (Si)-Total		1.06	1.01		mg/L	4.6	20	27-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	27-MAY-11
Sodium (Na)-Total		3.72	3.71		mg/L	0.33	20	27-MAY-11
Strontium (Sr)-Total		0.0458	0.0457		mg/L	0.083	20	27-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2195452							
WG1285777-4	DUP	WG1285777-3						
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	27-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	27-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	27-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	27-MAY-11
Titanium (Ti)-Total		0.00603	0.00700		mg/L	15	20	27-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	27-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	27-MAY-11
Vanadium (V)-Total		0.00048	0.00048		mg/L	0.84	400	27-MAY-11
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	27-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	27-MAY-11
WG1285777-6	DUP	WG1285777-5						
Aluminum (Al)-Total		0.0108	0.0120		mg/L	11	400	27-MAY-11
Antimony (Sb)-Total		0.0247	0.0242		mg/L	2.0	20	27-MAY-11
Arsenic (As)-Total		0.164	0.159		mg/L	3.0	20	27-MAY-11
Barium (Ba)-Total		0.0253	0.0248		mg/L	1.9	20	27-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	27-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	27-MAY-11
Boron (B)-Total		0.102	0.099		mg/L	2.2	20	27-MAY-11
Cadmium (Cd)-Total		0.000045	0.000043		mg/L	4.5	400	27-MAY-11
Calcium (Ca)-Total		490	476		mg/L	3.0	20	27-MAY-11
Cesium (Cs)-Total		0.00044	0.00042		mg/L	5.1	400	27-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	27-MAY-11
Cobalt (Co)-Total		0.676	0.657		mg/L	2.9	20	27-MAY-11
Copper (Cu)-Total		0.0344	0.0329		mg/L	4.2	20	27-MAY-11
Iron (Fe)-Total		0.13	0.13		mg/L	0.98	400	27-MAY-11
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	400	27-MAY-11
Lithium (Li)-Total		0.0530	0.0517		mg/L	2.4	20	27-MAY-11
Magnesium (Mg)-Total		82.8	79.5		mg/L	4.0	20	27-MAY-11
Manganese (Mn)-Total		0.151	0.146		mg/L	3.3	20	27-MAY-11
Molybdenum (Mo)-Total		0.0215	0.0210		mg/L	2.4	20	27-MAY-11
Nickel (Ni)-Total		0.140	0.138		mg/L	1.5	20	27-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	27-MAY-11
Potassium (K)-Total		37.2	36.0		mg/L	3.4	20	27-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2195452							
WG1285777-6	DUP	WG1285777-5						
Rubidium (Rb)-Total		0.0308	0.0303		mg/L	1.7	20	27-MAY-11
Selenium (Se)-Total		0.0181	0.0183		mg/L	0.78	20	27-MAY-11
Silicon (Si)-Total		1.71	1.78		mg/L	4.2	20	27-MAY-11
Silver (Ag)-Total		0.00024	0.00024		mg/L	2.1	400	27-MAY-11
Sodium (Na)-Total		153	149		mg/L	2.8	20	27-MAY-11
Strontium (Sr)-Total		0.888	0.859		mg/L	3.3	20	27-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	27-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	27-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	27-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	27-MAY-11
Titanium (Ti)-Total		0.0104	0.0105		mg/L	0.72	20	27-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	27-MAY-11
Uranium (U)-Total		0.00026	0.00025		mg/L	4.4	400	27-MAY-11
Vanadium (V)-Total		0.00036	0.00036		mg/L	1.1	400	27-MAY-11
Zinc (Zn)-Total		0.0068	0.0068		mg/L	0.53	400	27-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	27-MAY-11
WG1285777-2	LCS							
Aluminum (Al)-Total			102		%		80-120	27-MAY-11
Antimony (Sb)-Total			96		%		80-120	27-MAY-11
Arsenic (As)-Total			99		%		80-120	27-MAY-11
Barium (Ba)-Total			102		%		80-120	27-MAY-11
Beryllium (Be)-Total			97		%		80-120	27-MAY-11
Bismuth (Bi)-Total			98		%		80-120	27-MAY-11
Boron (B)-Total			102		%		80-120	27-MAY-11
Cadmium (Cd)-Total			104		%		80-120	27-MAY-11
Calcium (Ca)-Total			101		%		80-120	27-MAY-11
Cesium (Cs)-Total			104		%		80-120	27-MAY-11
Chromium (Cr)-Total			103		%		80-120	27-MAY-11
Cobalt (Co)-Total			105		%		80-120	27-MAY-11
Copper (Cu)-Total			100		%		80-120	27-MAY-11
Iron (Fe)-Total			105		%		80-120	27-MAY-11
Lead (Pb)-Total			97		%		80-120	27-MAY-11
Lithium (Li)-Total			100		%		80-120	27-MAY-11



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 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2195452							
WG1285777-2	LCS							
Magnesium (Mg)-Total			102		%		80-120	27-MAY-11
Manganese (Mn)-Total			103		%		80-120	27-MAY-11
Molybdenum (Mo)-Total			105		%		80-120	27-MAY-11
Nickel (Ni)-Total			100		%		80-120	27-MAY-11
Phosphorus (P)-Total			107		%		80-120	27-MAY-11
Potassium (K)-Total			102		%		80-120	27-MAY-11
Rubidium (Rb)-Total			106		%		80-120	27-MAY-11
Selenium (Se)-Total			99		%		80-120	27-MAY-11
Silicon (Si)-Total			104		%		80-120	27-MAY-11
Silver (Ag)-Total			100		%		80-120	27-MAY-11
Sodium (Na)-Total			103		%		80-120	27-MAY-11
Strontium (Sr)-Total			105		%		80-120	27-MAY-11
Tellurium (Te)-Total			98		%		80-120	27-MAY-11
Thallium (Tl)-Total			97		%		80-120	27-MAY-11
Thorium (Th)-Total			99		%		70-130	27-MAY-11
Tin (Sn)-Total			100		%		80-120	27-MAY-11
Titanium (Ti)-Total			101		%		80-120	27-MAY-11
Tungsten (W)-Total			100		%		80-120	27-MAY-11
Uranium (U)-Total			101		%		80-120	27-MAY-11
Vanadium (V)-Total			103		%		80-120	27-MAY-11
Zinc (Zn)-Total			100		%		80-120	27-MAY-11
Zirconium (Zr)-Total			102		%		80-120	27-MAY-11
WG1285777-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.02	27-MAY-11
Antimony (Sb)-Total			<0.00020		mg/L		0.001	27-MAY-11
Arsenic (As)-Total			<0.00020		mg/L		0.001	27-MAY-11
Barium (Ba)-Total			<0.00020		mg/L		0.0005	27-MAY-11
Beryllium (Be)-Total			<0.00020		mg/L		0.001	27-MAY-11
Bismuth (Bi)-Total			<0.00020		mg/L		0.0005	27-MAY-11
Boron (B)-Total			<0.010		mg/L		0.03	27-MAY-11
Cadmium (Cd)-Total			<0.000010		mg/L		0.0002	27-MAY-11
Calcium (Ca)-Total			<0.10		mg/L		0.2	27-MAY-11
Cesium (Cs)-Total			<0.00010		mg/L		0.0005	27-MAY-11
Chromium (Cr)-Total			<0.0010		mg/L		0.002	27-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2195452							
WG1285777-1	MB							
Cobalt (Co)-Total			<0.00020		mg/L		0.0005	27-MAY-11
Copper (Cu)-Total			<0.00020		mg/L		0.002	27-MAY-11
Iron (Fe)-Total			<0.10		mg/L		0.1	27-MAY-11
Lead (Pb)-Total			<0.000090		mg/L		0.001	27-MAY-11
Lithium (Li)-Total			<0.0020		mg/L		0.002	27-MAY-11
Magnesium (Mg)-Total			<0.010		mg/L		0.05	27-MAY-11
Manganese (Mn)-Total			<0.00030		mg/L		0.001	27-MAY-11
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0005	27-MAY-11
Nickel (Ni)-Total			<0.0020		mg/L		0.002	27-MAY-11
Phosphorus (P)-Total			<0.20		mg/L		0.5	27-MAY-11
Potassium (K)-Total			<0.020		mg/L		0.1	27-MAY-11
Rubidium (Rb)-Total			<0.00020		mg/L		0.0005	27-MAY-11
Selenium (Se)-Total			<0.0010		mg/L		0.005	27-MAY-11
Silicon (Si)-Total			<0.050		mg/L		0.3	27-MAY-11
Silver (Ag)-Total			<0.00010		mg/L		0.001	27-MAY-11
Sodium (Na)-Total			<0.030		mg/L		0.05	27-MAY-11
Strontium (Sr)-Total			<0.00010		mg/L		0.0005	27-MAY-11
Tellurium (Te)-Total			<0.00020		mg/L		0.001	27-MAY-11
Thallium (Tl)-Total			<0.00010		mg/L		0.005	27-MAY-11
Thorium (Th)-Total			<0.00010		mg/L		0.0001	27-MAY-11
Tin (Sn)-Total			<0.00020		mg/L		0.0006	27-MAY-11
Titanium (Ti)-Total			<0.00020		mg/L		0.001	27-MAY-11
Tungsten (W)-Total			<0.0010		mg/L		0.002	27-MAY-11
Uranium (U)-Total			<0.00010		mg/L		0.0005	27-MAY-11
Vanadium (V)-Total			<0.00020		mg/L		0.002	27-MAY-11
Zinc (Zn)-Total			<0.0050		mg/L		0.02	27-MAY-11
Zirconium (Zr)-Total			<0.00040		mg/L		0.001	27-MAY-11
N-TOTKJ-WP		Water						
Batch	R2196526							
WG1286902-1	CVS							
Total Kjeldahl Nitrogen			93		%		90-110	31-MAY-11
WG1285990-4	DUP	L1009481-2						
Total Kjeldahl Nitrogen		1.10	1.03		mg/L	6.6	20	31-MAY-11
WG1285990-7	DUP	L1009420-1						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N-TOTKJ-WP								
	Water							
Batch	R2196526							
WG1285990-7	DUP	L1009420-1						
Total Kjeldahl Nitrogen		1.17	1.15		mg/L	1.7	20	31-MAY-11
WG1285990-2	LCS							
Total Kjeldahl Nitrogen			92		%		75-125	31-MAY-11
WG1285990-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	31-MAY-11
WG1285990-5	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	31-MAY-11
WG1285990-3	MS	L1009481-2						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	31-MAY-11
WG1285990-6	MS	L1009420-1						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	31-MAY-11
NH3-COL-WP								
	Water							
Batch	R2199657							
WG1291213-3	DUP	L1009383-1						
Ammonia as N		2.14	2.12		mg/L	0.94	20	06-JUN-11
WG1291213-2	LCS							
Ammonia as N			99		%		85-115	06-JUN-11
WG1291213-1	MB							
Ammonia as N			<0.050		mg/L		0.05	06-JUN-11
WG1291213-4	MS	L1009420-6						
Ammonia as N			99		%		75-125	06-JUN-11
NO2-IC-WP								
	Water							
Batch	R2195808							
WG1286939-2	LCS							
Nitrite-N			101		%		85-115	27-MAY-11
WG1286939-1	MB							
Nitrite-N			<0.050		mg/L		0.05	27-MAY-11
NO3-IC-WP								
	Water							
Batch	R2195808							
WG1286939-2	LCS							
Nitrate-N			99		%		85-115	27-MAY-11
WG1286939-1	MB							
Nitrate-N			<0.050		mg/L		0.05	27-MAY-11
P-T-COL-WP								
	Water							



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-T-COL-WP		Water						
Batch	R2195667							
WG1285452-3	DUP	L1009007-5						
Phosphorus (P)-Total		1.12	1.03		mg/L	8.4	20	27-MAY-11
WG1285452-5	DUP	L1009446-3						
Phosphorus (P)-Total		0.018	0.018		mg/L	2.3	20	27-MAY-11
WG1285452-6	DUP	L1009452-1						
Phosphorus (P)-Total		9.17	8.67		mg/L	5.6	20	27-MAY-11
WG1285452-2	LCS							
Phosphorus (P)-Total			100		%		80-120	27-MAY-11
WG1285452-1	MB							
Phosphorus (P)-Total			<0.010		mg/L		0.01	27-MAY-11
WG1285452-10	MS	L1009469-1						
Phosphorus (P)-Total			101		%		70-130	27-MAY-11
WG1285452-7	MS	L1008283-1						
Phosphorus (P)-Total			N/A	MS-B	%		-	27-MAY-11
WG1285452-8	MS	L1009013-1						
Phosphorus (P)-Total			92		%		70-130	27-MAY-11
PH-WP		Water						
Batch	R2195130							
WG1286226-4	DUP	L1009704-2						
pH		7.64	7.61	J	pH units	0.04	0.2	27-MAY-11
WG1286226-5	DUP	L1009429-1						
pH		8.31	8.31	J	pH units	0.00	0.2	27-MAY-11
WG1286226-6	DUP	L1009387-1						
pH		7.19	7.20	J	pH units	0.01	0.2	27-MAY-11
WG1286226-7	DUP	L1009420-6						
pH		6.02	6.09	J	pH units	0.06	0.2	27-MAY-11
WG1286226-2	LCS							
pH			7.40		pH units		7.3-7.5	27-MAY-11
Batch	R2196148							
WG1286686-4	DUP	L1009855-1						
pH		7.53	7.54	J	pH units	0.01	0.2	28-MAY-11
WG1286686-5	DUP	L1010124-1						
pH		7.88	7.89	J	pH units	0.01	0.2	28-MAY-11
WG1286686-6	DUP	L1010112-1						
pH		8.57	8.60	J	pH units	0.04	0.2	28-MAY-11
WG1286686-2	LCS							
pH			7.42		pH units		7.3-7.5	28-MAY-11
SIO2-L-COL-WP		Water						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SIO2-L-COL-WP								
	Water							
Batch	R2200809							
WG1292266-5	DUP	L1012431-2						
Silica, Reactive (as SiO2)		6.06	6.21		mg/L	2.6	20	08-JUN-11
WG1292266-6	DUP	L1010371-3						
Silica, Reactive (as SiO2)		8.12	8.27		mg/L	1.8	20	08-JUN-11
WG1292266-2	LCS							
Silica, Reactive (as SiO2)			99		%		85-115	08-JUN-11
WG1292266-1	MB							
Silica, Reactive (as SiO2)			<0.0050		mg/L		0.005	08-JUN-11
WG1292266-3	MS	L1008007-4						
Silica, Reactive (as SiO2)			97		%		75-125	08-JUN-11
WG1292266-4	MS	L1010336-3						
Silica, Reactive (as SiO2)			97		%		75-125	08-JUN-11
SO4-IC-WP								
	Water							
Batch	R2195808							
WG1286939-3	DUP	L1005975-4						
Sulfate		72.5	72.5		mg/L	0.050	20	27-MAY-11
WG1286939-2	LCS							
Sulfate			100		%		85-115	27-MAY-11
WG1286939-1	MB							
Sulfate			<0.50		mg/L		0.5	27-MAY-11
WG1286939-4	MS	L1005975-4						
Sulfate			N/A	MS-B	%		-	27-MAY-11
SOLIDS-TDS-WP								
	Water							
Batch	R2196199							
WG1286605-2	CVS							
Total Dissolved Solids			101		%		85-115	30-MAY-11
WG1286605-3	DUP	L1009445-1						
Total Dissolved Solids		522	510		mg/L	2.3	20	30-MAY-11
WG1286605-6	DUP	L1010230-1						
Total Dissolved Solids		1540	1600		mg/L	3.8	20	30-MAY-11
WG1286605-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	30-MAY-11
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2196199							
WG1286605-2	CVS							
Total Suspended Solids			94		%		85-115	30-MAY-11
WG1286605-4	DUP	L1009709-1						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2196199							
WG1286605-4	DUP	L1009709-1						
Total Suspended Solids		148	137		mg/L	7.7	20	30-MAY-11
WG1286605-5	DUP	L1009716-1						
Total Suspended Solids		98.0	96.0		mg/L	2.1	20	30-MAY-11
WG1286605-6	DUP	L1010230-1						
Total Suspended Solids		390	370		mg/L	5.3	20	30-MAY-11
WG1286605-7	DUP	L1010243-4						
Total Suspended Solids		270	303		mg/L	12	20	30-MAY-11
WG1286605-1	MB							
Total Suspended Solids			<5.0		mg/L		5	30-MAY-11
TURBIDITY-WP								
	Water							
Batch	R2194531							
WG1285520-3	DUP	L1008926-2						
Turbidity		12.0	12.2		NTU	1.7	15	27-MAY-11
WG1285520-2	LCS							
Turbidity			99		%		85-115	27-MAY-11
WG1285520-1	MB							
Turbidity			<0.10		NTU		0.1	27-MAY-11

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L1009420

Report Date: 13-JUN-11

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Turbidity							
	1	24-MAY-11 12:40	27-MAY-11 06:20	48	66	hours	EHTL
	2	24-MAY-11 12:40	27-MAY-11 06:20	48	66	hours	EHTL
	3	24-MAY-11 12:40	27-MAY-11 06:20	48	66	hours	EHTL
	4	24-MAY-11 12:40	27-MAY-11 06:20	48	66	hours	EHTL
	5	24-MAY-11 12:40	27-MAY-11 06:20	48	66	hours	EHTL
	6	24-MAY-11 12:40	27-MAY-11 06:20	48	66	hours	EHTL
pH							
	1	24-MAY-11 12:40	27-MAY-11 08:29	0.25	68	hours	EHTR-FM
	2	24-MAY-11 12:40	27-MAY-11 08:29	0.25	68	hours	EHTR-FM
	3	24-MAY-11 12:40	27-MAY-11 08:29	0.25	68	hours	EHTR-FM
	4	24-MAY-11 12:40	28-MAY-11 11:36	0.25	95	hours	EHTR-FM
	5	24-MAY-11 12:40	27-MAY-11 08:29	0.25	68	hours	EHTR-FM
	6	24-MAY-11 12:40	27-MAY-11 08:29	0.25	68	hours	EHTR-FM
Anions and Nutrients							
Acidity							
	4	24-MAY-11 12:40	10-JUN-11 12:46	14	17	days	EHT
	5	24-MAY-11 12:40	10-JUN-11 12:46	14	17	days	EHT
	6	24-MAY-11 12:40	10-JUN-11 12:46	14	17	days	EHT
Bromide							
	1	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
	2	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
	3	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
	4	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
	5	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
	6	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
Nitrate as N							
	1	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
	2	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
	3	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
	4	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
	5	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
	6	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
Nitrite as N							
	1	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
	2	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
	3	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
	4	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
	5	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
	6	24-MAY-11 12:40	27-MAY-11 15:56	48	75	hours	EHTL
Phosphorus, Total							
	1	24-MAY-11 12:40	26-MAY-11 18:30	48	54	hours	EHTL
	2	24-MAY-11 12:40	26-MAY-11 18:30	48	54	hours	EHTL
	3	24-MAY-11 12:40	26-MAY-11 18:30	48	54	hours	EHTL
	4	24-MAY-11 12:40	26-MAY-11 18:30	48	54	hours	EHTL
	5	24-MAY-11 12:40	26-MAY-11 18:30	48	54	hours	EHTL
	6	24-MAY-11 12:40	26-MAY-11 18:30	48	54	hours	EHTL

Legend & Qualifier Definitions:

- EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
- EHTR: Exceeded ALS recommended hold time prior to sample receipt.
- EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
- EHT: Exceeded ALS recommended hold time prior to analysis.
- Rec. HT: ALS recommended hold time (see units).

Quality Control Report

Workorder: L1009420

Report Date: 13-JUN-11

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Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1009420 were received on 26-MAY-11 09:00.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L1009420

Report To
 Company: AECOM -W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone: 928-7427 Fax:
 Invoice To Same as Report? Yes No
 Hardcopy of Invoice with Report? Yes No
 Company:
 Contact:
 Address:
 Phone: Fax:

Client / Project Information
 Job #: 60213483-200
 PO / AFE:
 LSD:
 Quote #: Q24534
 ALS Contact:
 Date: 2/11/11
 Time: 10:45
 Date: 2/11/11
 Time: 10:00
 Date: 2/11/11
 Time: 10:45

Sample #	Lab Work Order # (lab use only)	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Analysis Request										Number of Containers
						Chlorophylla / Pheophytin	Acidity, Colour, Turbidity	Anions, Br, silica, ph, ec, Alk	NH3, TKN, PT	CBOD	Solids (TSS, TDS)	Metals & Hg - Total	Metals & Hg - Dissolved	TOC, DOC		
1	ANB10		2/11/11	10:40	water	X	X	X	X	X	X	X	X	X	X	6
2	ANB09		2/11/11	10:45		X	X	X	X	X	X	X	X	X	X	6
3	ANB08		2/11/11	11:45		X	X	X	X	X	X	X	X	X	X	6
4	ANB07		2/11/11	10:00		X	X	X	X	X	X	X	X	X	X	6
5	DUP 02		2/11/11	10:45	water	X	X	X	X	X	X	X	X	X	X	6
6	TRB-05?		2/11/11	10:45		X	X	X	X	X	X	X	X	X	X	6

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

TRB 05 was received in the same cooler - called L/M for Cliff to see if it was to be analyzed.

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 provided on a separate Excel tab.

Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)
 Released by: *Semce Rymon* Date (dd-mm-yy): 2/11/11 Time (hh-mm): 1700

SHIPMENT RECEPTION (lab use only)
 Received by: *[Signature]* Date: 2/11/11 Time: 09:00 Temperature: 11.3 °C

SHIPMENT VERIFICATION (lab use only)
 Verified by: Date: Time: Observations: Yes / No? If Yes add SIF



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 27-MAY-11
Report Date: 13-JUN-11 13:03 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1010045
Project P.O. #: NOT SUBMITTED
Job Reference: 60212435-200
Legal Site Desc:
C of C Numbers:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010045-1 STC-01							
Sampled By: CLIENT on 25-MAY-11 @ 16:20							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	6.87		0.50	mg/L		30-MAY-11	R2196510
Fluoride							
Fluoride	0.14		0.10	mg/L		30-MAY-11	R2196510
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		30-MAY-11	R2196510
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		30-MAY-11	R2196510
Sulfate							
Sulfate	93.9		0.50	mg/L		30-MAY-11	R2196510
Miscellaneous Parameters							
Acidity (as CaCO3)	3.2		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		07-JUN-11	R2200308
Bromide (Br)	<0.10		0.10	mg/L		30-MAY-11	R2196510
BOD Carbonaceous	<1.0		1.0	mg/L	28-MAY-11	02-JUN-11	R2197300
Colour, True	34.1		5.0	CU		28-MAY-11	R2196539
Dissolved Organic Carbon	17.1		1.0	mg/L		09-JUN-11	R2201700
Hardness (as CaCO3)	223		0.20	mg/L		03-JUN-11	
Hardness (as CaCO3)	213		0.30	mg/L		31-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	30-MAY-11	30-MAY-11	R2196940
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		27-MAY-11	
Phosphorus (P)-Total	<0.010		0.010	mg/L		30-MAY-11	R2196166
Silica, Reactive (as SiO2)	4.45		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	268		5.0	mg/L		31-MAY-11	R2196836
Total Kjeldahl Nitrogen	0.64		0.20	mg/L	28-MAY-11	01-JUN-11	R2196965
Total Organic Carbon	17.0		1.0	mg/L		09-JUN-11	R2201700
Total Suspended Solids	<5.0		5.0	mg/L		31-MAY-11	R2196836
Turbidity	0.30		0.10	NTU		27-MAY-11	R2195240
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0157		0.0050	mg/L	30-MAY-11	30-MAY-11	R2196009
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Arsenic (As)-Total	0.00077		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Barium (Ba)-Total	0.0212		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Boron (B)-Total	0.032		0.010	mg/L	30-MAY-11	30-MAY-11	R2196009
Cadmium (Cd)-Total	0.000010		0.000010	mg/L	30-MAY-11	30-MAY-11	R2196009
Calcium (Ca)-Total	51.9		0.10	mg/L	30-MAY-11	30-MAY-11	R2196009
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	30-MAY-11	30-MAY-11	R2196009
Cobalt (Co)-Total	0.00069		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Copper (Cu)-Total	0.0123		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Iron (Fe)-Total	0.11		0.10	mg/L	30-MAY-11	30-MAY-11	R2196009
Lead (Pb)-Total	<0.000090		0.000090	mg/L	30-MAY-11	30-MAY-11	R2196009
Lithium (Li)-Total	0.0035		0.0020	mg/L	30-MAY-11	30-MAY-11	R2196009
Magnesium (Mg)-Total	20.2		0.010	mg/L	30-MAY-11	30-MAY-11	R2196009
Manganese (Mn)-Total	0.0354		0.00030	mg/L	30-MAY-11	30-MAY-11	R2196009
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	30-MAY-11	30-MAY-11	R2196009

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010045-1 STC-01							
Sampled By: CLIENT on 25-MAY-11 @ 16:20							
Matrix: WATER							
Total Metals by ICP-MS							
Phosphorus (P)-Total	<0.20		0.20	mg/L	30-MAY-11	30-MAY-11	R2196009
Potassium (K)-Total	3.62		0.020	mg/L	30-MAY-11	30-MAY-11	R2196009
Rubidium (Rb)-Total	0.00141		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Selenium (Se)-Total	<0.0010		0.0010	mg/L	30-MAY-11	30-MAY-11	R2196009
Silicon (Si)-Total	2.20		0.050	mg/L	30-MAY-11	30-MAY-11	R2196009
Silver (Ag)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Sodium (Na)-Total	9.77		0.030	mg/L	30-MAY-11	30-MAY-11	R2196009
Strontium (Sr)-Total	0.129		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Thorium (Th)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Tin (Sn)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Titanium (Ti)-Total	0.00073		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Tungsten (W)-Total	<0.0010		0.0010	mg/L	30-MAY-11	30-MAY-11	R2196009
Uranium (U)-Total	0.00023		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Vanadium (V)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Zinc (Zn)-Total	0.0161		0.0050	mg/L	30-MAY-11	30-MAY-11	R2196009
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	30-MAY-11	30-MAY-11	R2196009
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0133		0.0020	mg/L	27-MAY-11	31-MAY-11	R2196767
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Arsenic (As)-Dissolved	0.00081		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Barium (Ba)-Dissolved	0.0220		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Boron (B)-Dissolved	0.028		0.010	mg/L	27-MAY-11	31-MAY-11	R2196767
Cadmium (Cd)-Dissolved	0.000011		0.000010	mg/L	27-MAY-11	31-MAY-11	R2196767
Calcium (Ca)-Dissolved	54.1		0.050	mg/L	27-MAY-11	31-MAY-11	R2196767
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Chromium (Cr)-Dissolved	0.0027		0.0020	mg/L	27-MAY-11	31-MAY-11	R2196767
Cobalt (Co)-Dissolved	0.00042		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Copper (Cu)-Dissolved	0.0114		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	27-MAY-11	31-MAY-11	R2196767
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	27-MAY-11	31-MAY-11	R2196767
Lithium (Li)-Dissolved	0.0027		0.0020	mg/L	27-MAY-11	31-MAY-11	R2196767
Magnesium (Mg)-Dissolved	21.5		0.010	mg/L	27-MAY-11	31-MAY-11	R2196767
Manganese (Mn)-Dissolved	0.0208		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Nickel (Ni)-Dissolved	0.0012		0.0010	mg/L	27-MAY-11	31-MAY-11	R2196767
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	27-MAY-11	31-MAY-11	R2196767
Potassium (K)-Dissolved	3.87		0.020	mg/L	27-MAY-11	31-MAY-11	R2196767
Rubidium (Rb)-Dissolved	0.00134		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	27-MAY-11	31-MAY-11	R2196767
Silicon (Si)-Dissolved	2.02		0.050	mg/L	27-MAY-11	31-MAY-11	R2196767
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Sodium (Na)-Dissolved	10.4		0.020	mg/L	27-MAY-11	31-MAY-11	R2196767
Strontium (Sr)-Dissolved	0.129		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010045-1 STC-01							
Sampled By: CLIENT on 25-MAY-11 @ 16:20							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Titanium (Ti)-Dissolved	0.00049		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Uranium (U)-Dissolved	0.00021		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	03-JUN-11	R2198253
Zinc (Zn)-Dissolved	0.0148		0.0020	mg/L	27-MAY-11	31-MAY-11	R2196767
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	27-MAY-11	31-MAY-11	R2196767
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	0.26		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	0.12		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	127		1.0	mg/L		28-MAY-11	R2196148
Bicarbonate (HCO3)	155		2.0	mg/L		28-MAY-11	R2196148
Carbonate (CO3)	<0.60		0.60	mg/L		28-MAY-11	R2196148
Hydroxide (OH)	<0.40		0.40	mg/L		28-MAY-11	R2196148
Conductivity							
Conductivity	433		0.40	umhos/cm		28-MAY-11	R2196148
pH							
pH	7.89		0.10	pH units		28-MAY-11	R2196148

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B
Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically.			
BR-IC-WP	Water	Bromide	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
CHL,PHEO-FLUORO-WP	Water	Chlorophyll a, Pheophytin by fluorometry	EPA 445.0
Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification.			
CL-IC-WP	Water	Chloride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR
This analysis is carried out using procedures adapted from APHA 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. Colour is pH dependent. Unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit.			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.			
EC-WP	Water	Conductivity	APHA 2510B
Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	HARDNESS CALCULATED
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
F-IC-WP	Water	Fluoride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
		Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
		Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
		Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.	
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
		Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.	
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-WP	Water	Nitrite as N	EPA 300.1 IC
NO3-IC-WP	Water	Nitrate as N	EPA 300.1 IC
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
		This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.	
PH-WP	Water	pH	APHA 4500H
		The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.	
SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2
		This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.	
SO4-IC-WP	Water	Sulfate	EPA 300.1 IC
		This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".	
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540C
		The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.	
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540D
		The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.	
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1010045

Report Date: 13-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R2202438							
WG1294090-2	CVS							
Acidity (as CaCO3)			101		%		85-115	10-JUN-11
WG1294090-3	DUP	L1010047-1						
Acidity (as CaCO3)		2.2	2.2		mg/L	0.0	400	10-JUN-11
WG1294090-4	DUP	L1012148-11						
Acidity (as CaCO3)		2.0	1.9		mg/L	3.3	400	10-JUN-11
WG1294090-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	10-JUN-11
ALK-TOT-WP								
	Water							
Batch	R2196148							
WG1286686-3	CVS							
Alkalinity, Total (as CaCO3)			102		%		85-115	28-MAY-11
WG1286686-7	CVS							
Alkalinity, Total (as CaCO3)			108		%		85-115	28-MAY-11
WG1286686-4	DUP	L1009855-1						
Alkalinity, Total (as CaCO3)		432	432		mg/L	0.14	20	28-MAY-11
Bicarbonate (HCO3)		527	527		mg/L	0.14	25	28-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	28-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	28-MAY-11
WG1286686-5	DUP	L1010124-1						
Alkalinity, Total (as CaCO3)		440	439		mg/L	0.14	20	28-MAY-11
Bicarbonate (HCO3)		536	536		mg/L	0.14	25	28-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	28-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	28-MAY-11
BR-IC-WP								
	Water							
Batch	R2196510							
WG1287662-2	LCS							
Bromide (Br)			102		%		85-115	30-MAY-11
WG1287662-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	30-MAY-11
C-DIS-ORG-WP								
	Water							
Batch	R2201700							
WG1293263-2	CVS							
Dissolved Organic Carbon			101		%		80-120	09-JUN-11
C-TOT-ORG-WP								
	Water							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-ORG-WP								
	Water							
Batch	R2201700							
WG1293263-2	CVS							
Total Organic Carbon			101		%		80-120	09-JUN-11
WG1293263-3	DUP	L1010393-1						
Total Organic Carbon		19.4	19.1		mg/L	1.2	20	09-JUN-11
WG1293263-1	MB							
Total Organic Carbon			<1.0		mg/L		1	09-JUN-11
CHL,PHEO-FLUORO-WP								
	Water							
Batch	R2196839							
WG1288191-1	CVS							
Chlorophyll a			103		%		65-135	01-JUN-11
WG1288191-2	CVS							
Chlorophyll a			120		%		65-135	01-JUN-11
WG1287097-2	DUP	L1009420-1						
Chlorophyll a		2.88	2.11		ug/L	31	35	01-JUN-11
Phaeophytin a		1.78	1.88		ug/L	5.5	35	01-JUN-11
WG1287097-1	MB							
Chlorophyll a			<0.10		ug/L		0.1	01-JUN-11
Phaeophytin a			<0.10		ug/L		0.1	01-JUN-11
CL-IC-WP								
	Water							
Batch	R2196510							
WG1287662-3	DUP	L1009090-1						
Chloride		4.77	4.76		mg/L	0.23	20	30-MAY-11
WG1287662-2	LCS							
Chloride			99		%		85-115	30-MAY-11
WG1287662-1	MB							
Chloride			<0.50		mg/L		0.5	30-MAY-11
WG1287662-4	MS	L1009090-1						
Chloride			108		%		75-125	30-MAY-11
COLOUR-TRUE-WP								
	Water							
Batch	R2196539							
WG1286363-3	DUP	L1008742-1						
Colour, True		30.1	30.6		CU	1.6	20	28-MAY-11
WG1286363-2	LCS							
Colour, True			93		%		85-115	28-MAY-11
WG1286363-1	MB							
Colour, True			<5.0		CU		5	28-MAY-11
CONSULT-BOD-CBOD-WP								
	Water							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CONSULT-BOD-CBOD-WP Water								
Batch R2197300								
WG1286310-3	DUP	L1010045-1						
BOD Carbonaceous		<1.0	<1.0	RPD-NA	mg/L	N/A	400	02-JUN-11
WG1286310-2	IRM	61-GG						
BOD Carbonaceous			94		%		85-115	02-JUN-11
WG1286310-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	02-JUN-11
EC-WP Water								
Batch R2196148								
WG1286686-1	CVS							
Conductivity			97		%		90-110	28-MAY-11
WG1286686-4	DUP	L1009855-1						
Conductivity		1730	1730		umhos/cm	0.041	10	28-MAY-11
WG1286686-5	DUP	L1010124-1						
Conductivity		779	780		umhos/cm	0.033	10	28-MAY-11
F-IC-WP Water								
Batch R2196510								
WG1287662-2	LCS							
Fluoride			103		%		85-115	30-MAY-11
WG1287662-1	MB							
Fluoride			<0.10		mg/L		0.1	30-MAY-11
HG-D-CVAF-WP Water								
Batch R2196940								
WG1288251-7	DUP	L1009420-6						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	30-MAY-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	30-MAY-11
WG1288251-2	LCS							
Mercury (Hg)-Dissolved			98		%		80-120	30-MAY-11
Mercury (Hg)-Dissolved			98		%		80-120	30-MAY-11
WG1288250-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	30-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	30-MAY-11
WG1288251-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	30-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	30-MAY-11
WG1288251-8	MS	L1009420-6						
Mercury (Hg)-Dissolved			102		%		70-130	30-MAY-11
Mercury (Hg)-Dissolved			102		%		70-130	30-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
	Water							
Batch	R2198344							
WG1289697-3	DUP	L1009186-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-5	DUP	L1010393-5						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-2	LCS							
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
WG1289697-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
WG1289697-4	MS	L1009186-1						
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
WG1289697-6	MS	L1010393-5						
Mercury (Hg)-Total			115		%		70-130	02-JUN-11
Mercury (Hg)-Total			115		%		70-130	02-JUN-11
MET-D-L-MS-WP								
	Water							
Batch	R2196767							
WG1288070-4	DUP	WG1288070-3						
Aluminum (Al)-Dissolved		0.0258	0.0252		mg/L	2.4	20	31-MAY-11
Antimony (Sb)-Dissolved		0.00321	0.00325		mg/L	1.3	20	31-MAY-11
Arsenic (As)-Dissolved		0.00459	0.00466		mg/L	1.5	20	31-MAY-11
Barium (Ba)-Dissolved		0.0268	0.0269		mg/L	0.38	20	31-MAY-11
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Boron (B)-Dissolved		0.029	0.029		mg/L	2.4	400	31-MAY-11
Cadmium (Cd)-Dissolved		0.00189	0.00187		mg/L	1.4	20	31-MAY-11
Calcium (Ca)-Dissolved		164	166		mg/L	1.7	20	31-MAY-11
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Chromium (Cr)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	31-MAY-11
Cobalt (Co)-Dissolved		0.00089	0.00089		mg/L	0.22	400	31-MAY-11
Copper (Cu)-Dissolved		0.0252	0.0250		mg/L	0.81	20	31-MAY-11
Iron (Fe)-Dissolved		0.16	0.16		mg/L	2.5	400	31-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2196767							
WG1288070-4	DUP	WG1288070-3						
Lead (Pb)-Dissolved		0.00120	0.00120		mg/L	0.083	20	31-MAY-11
Lithium (Li)-Dissolved		0.0079	0.0078		mg/L	1.3	400	31-MAY-11
Magnesium (Mg)-Dissolved		10.8	10.7		mg/L	0.91	20	31-MAY-11
Manganese (Mn)-Dissolved		0.0595	0.0608		mg/L	2.3	20	31-MAY-11
Molybdenum (Mo)-Dissolved		0.00387	0.00371		mg/L	4.3	20	31-MAY-11
Nickel (Ni)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	31-MAY-11
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	31-MAY-11
Potassium (K)-Dissolved		6.11	6.16		mg/L	0.92	20	31-MAY-11
Rubidium (Rb)-Dissolved		0.00687	0.00665		mg/L	3.3	20	31-MAY-11
Selenium (Se)-Dissolved		0.0195	0.0198		mg/L	1.6	20	31-MAY-11
Silicon (Si)-Dissolved		0.995	1.02		mg/L	2.0	20	31-MAY-11
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Sodium (Na)-Dissolved		30.2	30.7		mg/L	1.7	20	31-MAY-11
Strontium (Sr)-Dissolved		1.02	0.999		mg/L	1.9	20	31-MAY-11
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	31-MAY-11
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Titanium (Ti)-Dissolved		0.00152	0.00176		mg/L	14	20	31-MAY-11
Tungsten (W)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Zinc (Zn)-Dissolved		0.323	0.323		mg/L	0.10	20	31-MAY-11
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1288070-2	LCS							
Aluminum (Al)-Dissolved			105		%		80-120	01-JUN-11
Antimony (Sb)-Dissolved			112		%		80-120	01-JUN-11
Arsenic (As)-Dissolved			107		%		80-120	01-JUN-11
Barium (Ba)-Dissolved			112		%		80-120	01-JUN-11
Beryllium (Be)-Dissolved			113		%		80-120	01-JUN-11
Bismuth (Bi)-Dissolved			114		%		80-120	01-JUN-11
Boron (B)-Dissolved			115		%		80-120	01-JUN-11
Cadmium (Cd)-Dissolved			101		%		80-120	01-JUN-11
Calcium (Ca)-Dissolved			106		%		80-120	01-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2196767							
WG1288070-2 LCS								
Cesium (Cs)-Dissolved			106		%		80-120	01-JUN-11
Chromium (Cr)-Dissolved			109		%		80-120	01-JUN-11
Cobalt (Co)-Dissolved			112		%		80-120	01-JUN-11
Copper (Cu)-Dissolved			106		%		80-120	01-JUN-11
Iron (Fe)-Dissolved			101		%		80-120	01-JUN-11
Lead (Pb)-Dissolved			110		%		80-120	01-JUN-11
Lithium (Li)-Dissolved			106		%		80-120	01-JUN-11
Magnesium (Mg)-Dissolved			107		%		80-120	01-JUN-11
Manganese (Mn)-Dissolved			112		%		80-120	01-JUN-11
Molybdenum (Mo)-Dissolved			108		%		80-120	01-JUN-11
Nickel (Ni)-Dissolved			110		%		80-120	01-JUN-11
Phosphorus (P)-Dissolved			115		%		80-120	01-JUN-11
Potassium (K)-Dissolved			108		%		80-120	01-JUN-11
Rubidium (Rb)-Dissolved			111		%		80-120	01-JUN-11
Selenium (Se)-Dissolved			110		%		80-120	01-JUN-11
Silicon (Si)-Dissolved			112		%		80-120	01-JUN-11
Silver (Ag)-Dissolved			101		%		80-120	01-JUN-11
Sodium (Na)-Dissolved			112		%		80-120	01-JUN-11
Strontium (Sr)-Dissolved			105		%		80-120	01-JUN-11
Tellurium (Te)-Dissolved			101		%		80-120	01-JUN-11
Thallium (Tl)-Dissolved			115		%		80-120	01-JUN-11
Thorium (Th)-Dissolved			103		%		80-120	01-JUN-11
Tin (Sn)-Dissolved			101		%		80-120	01-JUN-11
Titanium (Ti)-Dissolved			108		%		80-120	01-JUN-11
Tungsten (W)-Dissolved			111		%		80-120	01-JUN-11
Uranium (U)-Dissolved			108		%		80-120	01-JUN-11
Zinc (Zn)-Dissolved			106		%		80-120	01-JUN-11
Zirconium (Zr)-Dissolved			109		%		80-120	01-JUN-11
WG1288070-1 MB								
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.02	31-MAY-11
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Arsenic (As)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2196767							
WG1288070-1	MB							
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Boron (B)-Dissolved			<0.010		mg/L		0.03	31-MAY-11
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.0002	31-MAY-11
Calcium (Ca)-Dissolved			<0.050		mg/L		0.2	31-MAY-11
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	31-MAY-11
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Copper (Cu)-Dissolved			<0.00020		mg/L		0.002	31-MAY-11
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	31-MAY-11
Lead (Pb)-Dissolved			<0.000090		mg/L		0.001	31-MAY-11
Lithium (Li)-Dissolved			<0.0020		mg/L		0.01	31-MAY-11
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.05	31-MAY-11
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.001	31-MAY-11
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.002	31-MAY-11
Phosphorus (P)-Dissolved			<0.10		mg/L		0.5	31-MAY-11
Potassium (K)-Dissolved			<0.020		mg/L		0.1	31-MAY-11
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Selenium (Se)-Dissolved			<0.0010		mg/L		0.005	31-MAY-11
Silicon (Si)-Dissolved			<0.050		mg/L		0.3	31-MAY-11
Silver (Ag)-Dissolved			<0.00010		mg/L		0.001	31-MAY-11
Sodium (Na)-Dissolved			<0.020		mg/L		0.05	31-MAY-11
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.005	31-MAY-11
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	31-MAY-11
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0006	31-MAY-11
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Tungsten (W)-Dissolved			<0.00020		mg/L		0.002	31-MAY-11
Uranium (U)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.02	31-MAY-11
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.001	31-MAY-11

MET-T-L-MS-WP **Water**



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2196009							
WG1286743-4	DUP	WG1286743-3						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	30-MAY-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Arsenic (As)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Barium (Ba)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	30-MAY-11
Cadmium (Cd)-Total		0.000016	0.000015		mg/L	6.5	400	30-MAY-11
Calcium (Ca)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	30-MAY-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	30-MAY-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Copper (Cu)-Total		0.0683	0.0660		mg/L	3.5	20	30-MAY-11
Iron (Fe)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	30-MAY-11
Lead (Pb)-Total		0.00210	0.00206		mg/L	1.9	20	30-MAY-11
Lithium (Li)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	30-MAY-11
Magnesium (Mg)-Total		0.025	0.024		mg/L	1.7	400	30-MAY-11
Manganese (Mn)-Total		0.00031	<0.00030	RPD-NA	mg/L	N/A	400	30-MAY-11
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	30-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	30-MAY-11
Potassium (K)-Total		0.060	0.055		mg/L	9.1	400	30-MAY-11
Rubidium (Rb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	30-MAY-11
Silicon (Si)-Total		1.09	0.976		mg/L	11	20	30-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Sodium (Na)-Total		37.3	36.7		mg/L	1.6	20	30-MAY-11
Strontium (Sr)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	30-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Titanium (Ti)-Total		0.00027	0.00026		mg/L			30-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2196009							
WG1286743-4	DUP	WG1286743-3						
Titanium (Ti)-Total		0.00027	0.00026		mg/L	4.9	400	30-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	30-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Zinc (Zn)-Total		0.0424	0.0411		mg/L	3.0	20	30-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	30-MAY-11
WG1286743-6	DUP	WG1286743-5						
Aluminum (Al)-Total		0.320	0.340		mg/L	6.1	20	30-MAY-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Arsenic (As)-Total		0.00049	0.00051		mg/L	3.8	400	30-MAY-11
Barium (Ba)-Total		0.0104	0.0105		mg/L	1.7	20	30-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Boron (B)-Total		0.317	0.318		mg/L	0.32	20	30-MAY-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	30-MAY-11
Calcium (Ca)-Total		21.8	22.1		mg/L	1.4	20	30-MAY-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	30-MAY-11
Cobalt (Co)-Total		0.00024	0.00025		mg/L	2.9	400	30-MAY-11
Copper (Cu)-Total		0.0448	0.0461		mg/L	2.8	20	30-MAY-11
Iron (Fe)-Total		1.28	1.33		mg/L	3.6	20	30-MAY-11
Lead (Pb)-Total		0.000302	0.000276		mg/L	9.0	400	30-MAY-11
Lithium (Li)-Total		0.0030	0.0029		mg/L	2.3	400	30-MAY-11
Magnesium (Mg)-Total		6.34	6.44		mg/L	1.6	20	30-MAY-11
Manganese (Mn)-Total		0.0228	0.0235		mg/L	2.8	20	30-MAY-11
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Nickel (Ni)-Total		0.0020	0.0021		mg/L	2.5	400	30-MAY-11
Phosphorus (P)-Total		0.50	0.52		mg/L	2.7	400	30-MAY-11
Potassium (K)-Total		1.40	1.45		mg/L	3.0	20	30-MAY-11
Rubidium (Rb)-Total		0.00163	0.00167		mg/L	2.7	20	30-MAY-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	30-MAY-11
Silicon (Si)-Total		0.979	1.07		mg/L	8.5	20	30-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2196009							
WG1286743-6	DUP	WG1286743-5						
Sodium (Na)-Total		34.2	37.3		mg/L	8.6	20	30-MAY-11
Strontium (Sr)-Total		0.0400	0.0399		mg/L	0.15	20	30-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	30-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Titanium (Ti)-Total		0.00124	0.00128		mg/L	2.9	20	30-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	30-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Vanadium (V)-Total		0.00209	0.00216		mg/L	3.4	20	30-MAY-11
Zinc (Zn)-Total		0.0155	0.0160		mg/L	3.0	400	30-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	30-MAY-11
WG1286743-2	LCS							
Aluminum (Al)-Total			108		%		80-120	30-MAY-11
Antimony (Sb)-Total			107		%		80-120	30-MAY-11
Arsenic (As)-Total			104		%		80-120	30-MAY-11
Barium (Ba)-Total			111		%		80-120	30-MAY-11
Beryllium (Be)-Total			110		%		80-120	30-MAY-11
Bismuth (Bi)-Total			106		%		80-120	30-MAY-11
Boron (B)-Total			110		%		80-120	30-MAY-11
Cadmium (Cd)-Total			108		%		80-120	30-MAY-11
Calcium (Ca)-Total			109		%		80-120	30-MAY-11
Cesium (Cs)-Total			106		%		80-120	30-MAY-11
Chromium (Cr)-Total			106		%		80-120	30-MAY-11
Cobalt (Co)-Total			109		%		80-120	30-MAY-11
Copper (Cu)-Total			106		%		80-120	30-MAY-11
Iron (Fe)-Total			107		%		80-120	30-MAY-11
Lead (Pb)-Total			104		%		80-120	30-MAY-11
Lithium (Li)-Total			106		%		80-120	30-MAY-11
Magnesium (Mg)-Total			105		%		80-120	30-MAY-11
Manganese (Mn)-Total			108		%		80-120	30-MAY-11
Molybdenum (Mo)-Total			110		%		80-120	30-MAY-11
Nickel (Ni)-Total			109		%		80-120	30-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2196009							
WG1286743-2	LCS							
Phosphorus (P)-Total			108		%		80-120	30-MAY-11
Potassium (K)-Total			106		%		80-120	30-MAY-11
Rubidium (Rb)-Total			108		%		80-120	30-MAY-11
Selenium (Se)-Total			104		%		80-120	30-MAY-11
Silicon (Si)-Total			109		%		80-120	30-MAY-11
Silver (Ag)-Total			107		%		80-120	30-MAY-11
Sodium (Na)-Total			109		%		80-120	30-MAY-11
Strontium (Sr)-Total			105		%		80-120	30-MAY-11
Tellurium (Te)-Total			100		%		80-120	30-MAY-11
Thallium (Tl)-Total			107		%		80-120	30-MAY-11
Thorium (Th)-Total			104		%		70-130	30-MAY-11
Tin (Sn)-Total			108		%		80-120	30-MAY-11
Titanium (Ti)-Total			106		%		80-120	30-MAY-11
Tungsten (W)-Total			107		%		80-120	30-MAY-11
Uranium (U)-Total			111		%		80-120	30-MAY-11
Vanadium (V)-Total			111		%		80-120	30-MAY-11
Zinc (Zn)-Total			106		%		80-120	30-MAY-11
Zirconium (Zr)-Total			105		%		80-120	30-MAY-11
WG1286743-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.02	30-MAY-11
Antimony (Sb)-Total			<0.00020		mg/L		0.001	30-MAY-11
Arsenic (As)-Total			<0.00020		mg/L		0.001	30-MAY-11
Barium (Ba)-Total			<0.00020		mg/L		0.0005	30-MAY-11
Beryllium (Be)-Total			<0.00020		mg/L		0.001	30-MAY-11
Bismuth (Bi)-Total			<0.00020		mg/L		0.0005	30-MAY-11
Boron (B)-Total			<0.010		mg/L		0.03	30-MAY-11
Cadmium (Cd)-Total			<0.000010		mg/L		0.0002	30-MAY-11
Calcium (Ca)-Total			<0.10		mg/L		0.2	30-MAY-11
Cesium (Cs)-Total			<0.00010		mg/L		0.0005	30-MAY-11
Chromium (Cr)-Total			<0.0010		mg/L		0.002	30-MAY-11
Cobalt (Co)-Total			<0.00020		mg/L		0.0005	30-MAY-11
Copper (Cu)-Total			<0.00020		mg/L		0.002	30-MAY-11
Iron (Fe)-Total			<0.10		mg/L		0.1	30-MAY-11
Lead (Pb)-Total			<0.000090		mg/L		0.001	30-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2196009							
WG1286743-1	MB							
Lithium (Li)-Total			<0.0020		mg/L		0.002	30-MAY-11
Magnesium (Mg)-Total			<0.010		mg/L		0.05	30-MAY-11
Manganese (Mn)-Total			<0.00030		mg/L		0.001	30-MAY-11
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0005	30-MAY-11
Nickel (Ni)-Total			<0.0020		mg/L		0.002	30-MAY-11
Phosphorus (P)-Total			<0.20		mg/L		0.5	30-MAY-11
Potassium (K)-Total			<0.020		mg/L		0.1	30-MAY-11
Rubidium (Rb)-Total			<0.00020		mg/L		0.0005	30-MAY-11
Selenium (Se)-Total			<0.0010		mg/L		0.005	30-MAY-11
Silicon (Si)-Total			<0.050		mg/L		0.3	30-MAY-11
Silver (Ag)-Total			<0.00010		mg/L		0.001	30-MAY-11
Sodium (Na)-Total			<0.030		mg/L		0.05	30-MAY-11
Strontium (Sr)-Total			<0.00010		mg/L		0.0005	30-MAY-11
Tellurium (Te)-Total			<0.00020		mg/L		0.001	30-MAY-11
Thallium (Tl)-Total			<0.00010		mg/L		0.005	30-MAY-11
Thorium (Th)-Total			<0.00010		mg/L		0.0001	30-MAY-11
Tin (Sn)-Total			<0.00020		mg/L		0.0006	30-MAY-11
Titanium (Ti)-Total			<0.00020		mg/L		0.001	30-MAY-11
Tungsten (W)-Total			<0.0010		mg/L		0.002	30-MAY-11
Uranium (U)-Total			<0.00010		mg/L		0.0005	30-MAY-11
Vanadium (V)-Total			<0.00020		mg/L		0.002	30-MAY-11
Zinc (Zn)-Total			<0.0050		mg/L		0.02	30-MAY-11
Zirconium (Zr)-Total			<0.00040		mg/L		0.001	30-MAY-11
N-TOTKJ-WP		Water						
Batch	R2196965							
WG1288329-1	CVS							
Total Kjeldahl Nitrogen			95		%		90-110	01-JUN-11
WG1287348-4	DUP	L1010124-1						
Total Kjeldahl Nitrogen		0.39	0.34		mg/L	13	20	01-JUN-11
WG1287348-7	DUP	L1010393-1						
Total Kjeldahl Nitrogen		0.88	0.86		mg/L	2.2	20	01-JUN-11
WG1287348-2	LCS							
Total Kjeldahl Nitrogen			94		%		75-125	01-JUN-11
WG1287348-1	MB							



Quality Control Report

Workorder: L1010045

Report Date: 13-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N-TOTKJ-WP								
	Water							
Batch	R2196965							
WG1287348-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	01-JUN-11
WG1287348-5	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	01-JUN-11
WG1287348-3	MS	L1010124-1						
Total Kjeldahl Nitrogen			86		%		70-130	01-JUN-11
WG1287348-6	MS	L1010393-1						
Total Kjeldahl Nitrogen			96		%		70-130	01-JUN-11
NH3-COL-WP								
	Water							
Batch	R2200308							
WG1291885-3	DUP	L1011705-3						
Ammonia as N		0.433	0.437		mg/L	0.75	20	07-JUN-11
WG1291885-5	DUP	L1010336-3						
Ammonia as N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	07-JUN-11
WG1291885-2	LCS							
Ammonia as N			99		%		85-115	07-JUN-11
WG1291885-1	MB							
Ammonia as N			<0.050		mg/L		0.05	07-JUN-11
WG1291885-4	MS	L1009861-4						
Ammonia as N			101		%		75-125	07-JUN-11
WG1291885-6	MS	L1010336-3						
Ammonia as N			115		%		75-125	07-JUN-11
NO2-IC-WP								
	Water							
Batch	R2196510							
WG1287662-3	DUP	L1009090-1						
Nitrite-N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	30-MAY-11
WG1287662-2	LCS							
Nitrite-N			100		%		85-115	30-MAY-11
WG1287662-1	MB							
Nitrite-N			<0.050		mg/L		0.05	30-MAY-11
WG1287662-4	MS	L1009090-1						
Nitrite-N			100		%		75-125	30-MAY-11
NO3-IC-WP								
	Water							
Batch	R2196510							
WG1287662-3	DUP	L1009090-1						
Nitrate-N		4.33	4.33		mg/L	0.085	20	30-MAY-11
WG1287662-2	LCS							



Quality Control Report

Workorder: L1010045

Report Date: 13-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-IC-WP								
	Water							
Batch	R2196510							
WG1287662-2	LCS							
Nitrate-N			99		%		85-115	30-MAY-11
WG1287662-1	MB							
Nitrate-N			<0.050		mg/L		0.05	30-MAY-11
WG1287662-4	MS	L1009090-1						
Nitrate-N			N/A	MS-B	%		-	30-MAY-11
P-T-COL-WP								
	Water							
Batch	R2196166							
WG1286133-3	DUP	L1009621-1						
Phosphorus (P)-Total		73.3	70.1		mg/L	4.5	20	30-MAY-11
WG1286133-4	DUP	L1009704-2						
Phosphorus (P)-Total		15.8	14.6		mg/L	7.9	20	30-MAY-11
WG1286133-2	LCS							
Phosphorus (P)-Total			95		%		80-120	30-MAY-11
WG1286133-1	MB							
Phosphorus (P)-Total			<0.010		mg/L		0.01	30-MAY-11
WG1286133-5	MS	L1009610-1						
Phosphorus (P)-Total			97		%		70-130	30-MAY-11
PH-WP								
	Water							
Batch	R2196148							
WG1286686-4	DUP	L1009855-1						
pH		7.53	7.54	J	pH units	0.01	0.2	28-MAY-11
WG1286686-5	DUP	L1010124-1						
pH		7.88	7.89	J	pH units	0.01	0.2	28-MAY-11
WG1286686-6	DUP	L1010112-1						
pH		8.57	8.60	J	pH units	0.04	0.2	28-MAY-11
WG1286686-2	LCS							
pH			7.42		pH units		7.3-7.5	28-MAY-11
SIO2-L-COL-WP								
	Water							
Batch	R2200809							
WG1292266-5	DUP	L1012431-2						
Silica, Reactive (as SiO2)		6.06	6.21		mg/L	2.6	20	08-JUN-11
WG1292266-6	DUP	L1010371-3						
Silica, Reactive (as SiO2)		8.12	8.27		mg/L	1.8	20	08-JUN-11
WG1292266-2	LCS							
Silica, Reactive (as SiO2)			99		%		85-115	08-JUN-11
WG1292266-1	MB							



Quality Control Report

Workorder: L1010045

Report Date: 13-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SIO2-L-COL-WP								
	Water							
Batch	R2200809							
WG1292266-1	MB							
Silica, Reactive (as SiO2)			<0.0050		mg/L		0.005	08-JUN-11
WG1292266-3	MS	L1008007-4						
Silica, Reactive (as SiO2)			97		%		75-125	08-JUN-11
WG1292266-4	MS	L1010336-3						
Silica, Reactive (as SiO2)			97		%		75-125	08-JUN-11
SO4-IC-WP								
	Water							
Batch	R2196510							
WG1287662-3	DUP	L1009090-1						
Sulfate			119		mg/L	0.15	20	30-MAY-11
WG1287662-2	LCS							
Sulfate			100		%		85-115	30-MAY-11
WG1287662-1	MB							
Sulfate			<0.50		mg/L		0.5	30-MAY-11
WG1287662-4	MS	L1009090-1						
Sulfate			N/A	MS-B	%		-	30-MAY-11
SOLIDS-TDS-WP								
	Water							
Batch	R2196836							
WG1287243-2	CVS							
Total Dissolved Solids			101		%		85-115	31-MAY-11
WG1287243-4	DUP	L1010017-2						
Total Dissolved Solids			200		mg/L	12	20	31-MAY-11
WG1287243-5	DUP	L1010336-3						
Total Dissolved Solids			<5.0	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1287243-7	DUP	L1010604-1						
Total Dissolved Solids			1420		mg/L	9.6	20	31-MAY-11
WG1287243-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	31-MAY-11
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2196836							
WG1287243-2	CVS							
Total Suspended Solids			96		%		85-115	31-MAY-11
WG1287243-4	DUP	L1010017-2						
Total Suspended Solids			<5.0	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1287243-5	DUP	L1010336-3						
Total Suspended Solids			<5.0	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1287243-6	DUP	L1010351-4						



Quality Control Report

Workorder: L1010045

Report Date: 13-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2196836							
WG1287243-6	DUP	L1010351-4						
Total Suspended Solids		26.0	29.0		mg/L	11	20	31-MAY-11
WG1287243-7	DUP	L1010604-1						
Total Suspended Solids		440	450		mg/L	2.2	20	31-MAY-11
WG1287243-1	MB							
Total Suspended Solids			<5.0		mg/L		5	31-MAY-11
TURBIDITY-WP								
	Water							
Batch	R2195240							
WG1286347-3	DUP	L1009585-1						
Turbidity		0.28	0.28		NTU	1.1	15	27-MAY-11
WG1286347-2	LCS							
Turbidity			101		%		85-115	27-MAY-11
WG1286347-1	MB							
Turbidity			<0.10		NTU		0.1	27-MAY-11

Quality Control Report

Workorder: L1010045

Report Date: 13-JUN-11

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L1010045

Report Date: 13-JUN-11

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH	1	25-MAY-11 16:20	28-MAY-11 11:36	0.25	67	hours	EHTR-FM
Anions and Nutrients							
Acidity	1	25-MAY-11 16:20	10-JUN-11 12:46	14	16	days	EHT
Bromide	1	25-MAY-11 16:20	30-MAY-11 16:26	48	120	hours	EHTL
Nitrate as N	1	25-MAY-11 16:20	30-MAY-11 16:26	48	120	hours	EHTL
Nitrite as N	1	25-MAY-11 16:20	30-MAY-11 16:26	48	120	hours	EHTL
Phosphorus, Total	1	25-MAY-11 16:20	27-MAY-11 17:30	48	49	hours	EHTL
Aggregate Organics							
Carbonaceous BOD	1	25-MAY-11 16:20	28-MAY-11 13:27	48	69	hours	EHTL

Legend & Qualifier Definitions:

- EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
- EHTR: Exceeded ALS recommended hold time prior to sample receipt.
- EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
- EHT: Exceeded ALS recommended hold time prior to analysis.
- Rec. HT: ALS recommended hold time (see units).

Notes*:
 Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
 Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1010045 were received on 27-MAY-11 15:15.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Report To Company: AECOM-W172 Contact: Cliff Samoiloff Address: 99 Commerce Dr Phone: _____ Fax: _____		Format / Distribution Hard <input type="checkbox"/> Other <input type="checkbox"/> Excel <input checked="" type="checkbox"/> Digital <input type="checkbox"/> Fax <input type="checkbox"/> Email 1: cliff.samoiloff@aecom.com Email 2: shawna.kjartanson@aecom.com Email 3: _____		Service Requested (Rush for routine analysis subject to availability) <input checked="" type="radio"/> Regular (Standard Turnaround Times - Business Days) <input type="radio"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT	
Client / Project Information Job #: 60212435-200 PO / AFE: _____ LSD: _____ Quote #: Q24534		Analysis Request Please indicate below Filtered, Preserved or both (F, P, F/P)			
ALS Contact: Lab Work Order # (lab-use only): STC-01 Sample Identification (This description will appear on the report): Date (dd-mm-yy): 25 MAY 11 Time (hh:mm): 18:45 Sampler: _____ Sample Type: water		Chlorophylla / Pheophytin X Acidity, Colour, Turbidity X Anions, Br, silica, ph, ec, Alk X NH3, TKN, PT X CBOD X Solids (TSS, TDS) X Metals & HG - Total X Metals & Hg - Dissolved X TOC, DOC X			
Number of Containers: 6					
Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab. Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.					
SHIPMENT RELEASE (client use) Released by: _____ Date (dd-mm-yy): 25-MAY-11 Time (hh-mm): 18:45		SHIPMENT RECEPTION (lab-use only) Received by: _____ Date: 27 MAY 11 Time: 1515 Temperature: 12.9 °C			
SHIPMENT VERIFICATION (lab-use only) Verified by: _____ Date: _____ Time: _____ Observations: Yes / No ? If Yes add SIF					



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 27-MAY-11
Report Date: 13-JUN-11 13:04 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1010047
Project P.O. #: NOT SUBMITTED
Job Reference: 60212492-200
Legal Site Desc:
C of C Numbers:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010047-1 SNL01							
Sampled By: CLIENT on 25-MAY-11 @ 13:00							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	2.30		0.50	mg/L		30-MAY-11	R2196510
Fluoride							
Fluoride	<0.10		0.10	mg/L		30-MAY-11	R2196510
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		30-MAY-11	R2196510
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		30-MAY-11	R2196510
Sulfate							
Sulfate	3.15		0.50	mg/L		30-MAY-11	R2196510
Miscellaneous Parameters							
Acidity (as CaCO3)	2.2		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		07-JUN-11	R2200308
Bromide (Br)	<0.10		0.10	mg/L		30-MAY-11	R2196510
BOD Carbonaceous	1.3		1.0	mg/L	28-MAY-11	02-JUN-11	R2197300
Colour, True	31.5		5.0	CU		28-MAY-11	R2196539
Dissolved Organic Carbon	14.5		1.0	mg/L		09-JUN-11	R2201700
Hardness (as CaCO3)	58.0		0.30	mg/L		31-MAY-11	
Hardness (as CaCO3)	59.6		0.20	mg/L		01-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	30-MAY-11	30-MAY-11	R2196940
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		27-MAY-11	
Phosphorus (P)-Total	0.019		0.010	mg/L		30-MAY-11	R2196166
Silica, Reactive (as SiO2)	1.31		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	64.0		5.0	mg/L		31-MAY-11	R2196836
Total Kjeldahl Nitrogen	0.92		0.20	mg/L	28-MAY-11	01-JUN-11	R2196965
Total Organic Carbon	14.6		1.0	mg/L		09-JUN-11	R2201700
Total Suspended Solids	<5.0		5.0	mg/L		31-MAY-11	R2196836
Turbidity	1.28		0.10	NTU		27-MAY-11	R2195240
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0593		0.0050	mg/L	30-MAY-11	30-MAY-11	R2196009
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Arsenic (As)-Total	0.00190		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Barium (Ba)-Total	0.00872		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Boron (B)-Total	0.010		0.010	mg/L	30-MAY-11	30-MAY-11	R2196009
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	30-MAY-11	30-MAY-11	R2196009
Calcium (Ca)-Total	14.5		0.10	mg/L	30-MAY-11	30-MAY-11	R2196009
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	30-MAY-11	30-MAY-11	R2196009
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Copper (Cu)-Total	0.00215		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Iron (Fe)-Total	0.16		0.10	mg/L	30-MAY-11	30-MAY-11	R2196009
Lead (Pb)-Total	<0.000090		0.000090	mg/L	30-MAY-11	30-MAY-11	R2196009
Lithium (Li)-Total	0.0026		0.0020	mg/L	30-MAY-11	30-MAY-11	R2196009
Magnesium (Mg)-Total	5.28		0.010	mg/L	30-MAY-11	30-MAY-11	R2196009
Manganese (Mn)-Total	0.0240		0.00030	mg/L	30-MAY-11	30-MAY-11	R2196009
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	30-MAY-11	30-MAY-11	R2196009

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010047-1 SNL01							
Sampled By: CLIENT on 25-MAY-11 @ 13:00							
Matrix: WATER							
Total Metals by ICP-MS							
Phosphorus (P)-Total	<0.20		0.20	mg/L	30-MAY-11	30-MAY-11	R2196009
Potassium (K)-Total	1.22		0.020	mg/L	30-MAY-11	30-MAY-11	R2196009
Rubidium (Rb)-Total	0.00108		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Selenium (Se)-Total	<0.0010		0.0010	mg/L	30-MAY-11	30-MAY-11	R2196009
Silicon (Si)-Total	0.946		0.050	mg/L	30-MAY-11	30-MAY-11	R2196009
Silver (Ag)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Sodium (Na)-Total	2.77		0.030	mg/L	30-MAY-11	30-MAY-11	R2196009
Strontium (Sr)-Total	0.0301		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Thorium (Th)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Tin (Sn)-Total	0.00033		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Titanium (Ti)-Total	0.00223		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Tungsten (W)-Total	<0.0010		0.0010	mg/L	30-MAY-11	30-MAY-11	R2196009
Uranium (U)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Vanadium (V)-Total	0.00028		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	30-MAY-11	30-MAY-11	R2196009
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	30-MAY-11	30-MAY-11	R2196009
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0055		0.0020	mg/L	27-MAY-11	31-MAY-11	R2196767
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Arsenic (As)-Dissolved	0.00158		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Barium (Ba)-Dissolved	0.00802		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Boron (B)-Dissolved	<0.010		0.010	mg/L	27-MAY-11	31-MAY-11	R2196767
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	27-MAY-11	31-MAY-11	R2196767
Calcium (Ca)-Dissolved	14.5		0.050	mg/L	27-MAY-11	31-MAY-11	R2196767
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	27-MAY-11	31-MAY-11	R2196767
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Copper (Cu)-Dissolved	0.00171		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	27-MAY-11	31-MAY-11	R2196767
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	27-MAY-11	31-MAY-11	R2196767
Lithium (Li)-Dissolved	0.0025		0.0020	mg/L	27-MAY-11	31-MAY-11	R2196767
Magnesium (Mg)-Dissolved	5.69		0.010	mg/L	27-MAY-11	31-MAY-11	R2196767
Manganese (Mn)-Dissolved	0.00042		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Molybdenum (Mo)-Dissolved	0.00013		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	27-MAY-11	31-MAY-11	R2196767
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	27-MAY-11	31-MAY-11	R2196767
Potassium (K)-Dissolved	1.33		0.020	mg/L	27-MAY-11	31-MAY-11	R2196767
Rubidium (Rb)-Dissolved	0.00092		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	27-MAY-11	31-MAY-11	R2196767
Silicon (Si)-Dissolved	0.769		0.050	mg/L	27-MAY-11	31-MAY-11	R2196767
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Sodium (Na)-Dissolved	2.86		0.020	mg/L	27-MAY-11	31-MAY-11	R2196767
Strontium (Sr)-Dissolved	0.0288		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010047-1 SNL01							
Sampled By: CLIENT on 25-MAY-11 @ 13:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Vanadium (V)-Dissolved	0.00039		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	27-MAY-11	31-MAY-11	R2196767
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	27-MAY-11	31-MAY-11	R2196767
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	5.64		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	4.37		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	56.0		1.0	mg/L		28-MAY-11	R2196148
Bicarbonate (HCO3)	68.3		2.0	mg/L		28-MAY-11	R2196148
Carbonate (CO3)	<0.60		0.60	mg/L		28-MAY-11	R2196148
Hydroxide (OH)	<0.40		0.40	mg/L		28-MAY-11	R2196148
Conductivity							
Conductivity	120		0.40	umhos/cm		28-MAY-11	R2196148
pH							
pH	7.94		0.10	pH units		28-MAY-11	R2196148
L1010047-2 SNL02							
Sampled By: CLIENT on 25-MAY-11 @ 11:30							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	1.21		0.50	mg/L		30-MAY-11	R2196510
Fluoride							
Fluoride	<0.10		0.10	mg/L		30-MAY-11	R2196510
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		30-MAY-11	R2196510
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		30-MAY-11	R2196510
Sulfate							
Sulfate	2.02		0.50	mg/L		30-MAY-11	R2196510
Miscellaneous Parameters							
Acidity (as CaCO3)	1.9		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		07-JUN-11	R2200308
Bromide (Br)	<0.10		0.10	mg/L		30-MAY-11	R2196510
BOD Carbonaceous	<1.0		1.0	mg/L	28-MAY-11	02-JUN-11	R2197300
Colour, True	33.1		5.0	CU		28-MAY-11	R2196539
Dissolved Organic Carbon	14.0		1.0	mg/L		09-JUN-11	R2201700
Hardness (as CaCO3)	51.7		0.20	mg/L		01-JUN-11	
Hardness (as CaCO3)	50.9		0.30	mg/L		31-MAY-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	30-MAY-11	30-MAY-11	R2196940
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		27-MAY-11	
Phosphorus (P)-Total	0.011		0.010	mg/L		30-MAY-11	R2196166
Silica, Reactive (as SiO2)	1.86		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	60.0		5.0	mg/L		31-MAY-11	R2196836
Total Kjeldahl Nitrogen	0.61		0.20	mg/L	28-MAY-11	01-JUN-11	R2196965
Total Organic Carbon	14.2		1.0	mg/L		09-JUN-11	R2201700

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010047-2 SNL02							
Sampled By: CLIENT on 25-MAY-11 @ 11:30							
Matrix: WATER							
Total Suspended Solids	<5.0		5.0	mg/L		31-MAY-11	R2196836
Turbidity	1.44		0.10	NTU		27-MAY-11	R2195240
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0985		0.0050	mg/L	30-MAY-11	30-MAY-11	R2196009
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Arsenic (As)-Total	0.00123		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Barium (Ba)-Total	0.00874		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Boron (B)-Total	<0.010		0.010	mg/L	30-MAY-11	30-MAY-11	R2196009
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	30-MAY-11	30-MAY-11	R2196009
Calcium (Ca)-Total	12.7		0.10	mg/L	30-MAY-11	30-MAY-11	R2196009
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	30-MAY-11	30-MAY-11	R2196009
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Copper (Cu)-Total	0.00112		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Iron (Fe)-Total	0.17		0.10	mg/L	30-MAY-11	30-MAY-11	R2196009
Lead (Pb)-Total	<0.000090		0.000090	mg/L	30-MAY-11	30-MAY-11	R2196009
Lithium (Li)-Total	0.0025		0.0020	mg/L	30-MAY-11	30-MAY-11	R2196009
Magnesium (Mg)-Total	4.65		0.010	mg/L	30-MAY-11	30-MAY-11	R2196009
Manganese (Mn)-Total	0.0189		0.00030	mg/L	30-MAY-11	30-MAY-11	R2196009
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	30-MAY-11	30-MAY-11	R2196009
Phosphorus (P)-Total	<0.20		0.20	mg/L	30-MAY-11	30-MAY-11	R2196009
Potassium (K)-Total	1.07		0.020	mg/L	30-MAY-11	30-MAY-11	R2196009
Rubidium (Rb)-Total	0.00107		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Selenium (Se)-Total	<0.0010		0.0010	mg/L	30-MAY-11	30-MAY-11	R2196009
Silicon (Si)-Total	1.32		0.050	mg/L	30-MAY-11	30-MAY-11	R2196009
Silver (Ag)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Sodium (Na)-Total	2.25		0.030	mg/L	30-MAY-11	30-MAY-11	R2196009
Strontium (Sr)-Total	0.0270		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Thorium (Th)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Tin (Sn)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Titanium (Ti)-Total	0.00370		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Tungsten (W)-Total	<0.0010		0.0010	mg/L	30-MAY-11	30-MAY-11	R2196009
Uranium (U)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Vanadium (V)-Total	0.00034		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	30-MAY-11	30-MAY-11	R2196009
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	30-MAY-11	30-MAY-11	R2196009
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0101		0.0020	mg/L	27-MAY-11	31-MAY-11	R2196767
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Arsenic (As)-Dissolved	0.00112		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Barium (Ba)-Dissolved	0.00793		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Boron (B)-Dissolved	<0.010		0.010	mg/L	27-MAY-11	31-MAY-11	R2196767
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	27-MAY-11	31-MAY-11	R2196767
Calcium (Ca)-Dissolved	12.7		0.050	mg/L	27-MAY-11	31-MAY-11	R2196767
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010047-2 SNL02							
Sampled By: CLIENT on 25-MAY-11 @ 11:30							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Chromium (Cr)-Dissolved	0.0039		0.0020	mg/L	27-MAY-11	31-MAY-11	R2196767
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Copper (Cu)-Dissolved	0.00132		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	27-MAY-11	31-MAY-11	R2196767
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	27-MAY-11	31-MAY-11	R2196767
Lithium (Li)-Dissolved	0.0022		0.0020	mg/L	27-MAY-11	31-MAY-11	R2196767
Magnesium (Mg)-Dissolved	4.84		0.010	mg/L	27-MAY-11	31-MAY-11	R2196767
Manganese (Mn)-Dissolved	0.00048		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	27-MAY-11	31-MAY-11	R2196767
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	27-MAY-11	31-MAY-11	R2196767
Potassium (K)-Dissolved	1.12		0.020	mg/L	27-MAY-11	31-MAY-11	R2196767
Rubidium (Rb)-Dissolved	0.00083		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	27-MAY-11	31-MAY-11	R2196767
Silicon (Si)-Dissolved	0.971		0.050	mg/L	27-MAY-11	31-MAY-11	R2196767
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Sodium (Na)-Dissolved	2.68		0.020	mg/L	27-MAY-11	31-MAY-11	R2196767
Strontium (Sr)-Dissolved	0.0251		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Titanium (Ti)-Dissolved	0.00023		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Vanadium (V)-Dissolved	0.00034		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Zinc (Zn)-Dissolved	<0.00020		0.0020	mg/L	27-MAY-11	31-MAY-11	R2196767
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	27-MAY-11	31-MAY-11	R2196767
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	3.89		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	2.29		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	50.1		1.0	mg/L		28-MAY-11	R2196148
Bicarbonate (HCO3)	61.1		2.0	mg/L		28-MAY-11	R2196148
Carbonate (CO3)	<0.60		0.60	mg/L		28-MAY-11	R2196148
Hydroxide (OH)	<0.40		0.40	mg/L		28-MAY-11	R2196148
Conductivity							
Conductivity	103		0.40	umhos/cm		28-MAY-11	R2196148
pH							
pH	7.91		0.10	pH units		28-MAY-11	R2196148
L1010047-3 TRB06							
Sampled By: CLIENT on 25-MAY-11 @ 17:00							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		30-MAY-11	R2196510
Fluoride							
Fluoride	<0.10		0.10	mg/L		30-MAY-11	R2196510
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		30-MAY-11	R2196510

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010047-3 TRB06							
Sampled By: CLIENT on 25-MAY-11 @ 17:00							
Matrix: WATER							
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		30-MAY-11	R2196510
Sulfate							
Sulfate	<0.50		0.50	mg/L		30-MAY-11	R2196510
Miscellaneous Parameters							
Acidity (as CaCO3)	1.3		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		07-JUN-11	R2200308
Bromide (Br)	<0.10		0.10	mg/L		30-MAY-11	R2196510
BOD Carbonaceous	<1.0		1.0	mg/L	28-MAY-11	02-JUN-11	R2197300
Colour, True	<5.0		5.0	CU		28-MAY-11	R2196539
Dissolved Organic Carbon	<1.0		1.0	mg/L		09-JUN-11	R2201700
Hardness (as CaCO3)	<0.30		0.30	mg/L		31-MAY-11	
Hardness (as CaCO3)	<0.20		0.20	mg/L		01-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	30-MAY-11	30-MAY-11	R2196940
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		27-MAY-11	
Phosphorus (P)-Total	<0.010		0.010	mg/L		30-MAY-11	R2196166
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	<5.0		5.0	mg/L		31-MAY-11	R2196836
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	28-MAY-11	01-JUN-11	R2196965
Total Organic Carbon	<1.0		1.0	mg/L		09-JUN-11	R2201700
Total Suspended Solids	<5.0		5.0	mg/L		31-MAY-11	R2196836
Turbidity	0.32		0.10	NTU		27-MAY-11	R2195240
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	30-MAY-11	30-MAY-11	R2196009
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Arsenic (As)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Barium (Ba)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Boron (B)-Total	<0.010		0.010	mg/L	30-MAY-11	30-MAY-11	R2196009
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	30-MAY-11	30-MAY-11	R2196009
Calcium (Ca)-Total	<0.10		0.10	mg/L	30-MAY-11	30-MAY-11	R2196009
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	30-MAY-11	30-MAY-11	R2196009
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Copper (Cu)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Iron (Fe)-Total	<0.10		0.10	mg/L	30-MAY-11	30-MAY-11	R2196009
Lead (Pb)-Total	<0.000090		0.000090	mg/L	30-MAY-11	30-MAY-11	R2196009
Lithium (Li)-Total	<0.0020		0.0020	mg/L	30-MAY-11	30-MAY-11	R2196009
Magnesium (Mg)-Total	<0.010		0.010	mg/L	30-MAY-11	30-MAY-11	R2196009
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	30-MAY-11	30-MAY-11	R2196009
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	30-MAY-11	30-MAY-11	R2196009
Phosphorus (P)-Total	<0.20		0.20	mg/L	30-MAY-11	30-MAY-11	R2196009
Potassium (K)-Total	<0.020		0.020	mg/L	30-MAY-11	30-MAY-11	R2196009
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Selenium (Se)-Total	<0.0010		0.0010	mg/L	30-MAY-11	30-MAY-11	R2196009
Silicon (Si)-Total	<0.050		0.050	mg/L	30-MAY-11	30-MAY-11	R2196009
Silver (Ag)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Sodium (Na)-Total	<0.030		0.030	mg/L	30-MAY-11	30-MAY-11	R2196009

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010047-3 TRB06							
Sampled By: CLIENT on 25-MAY-11 @ 17:00							
Matrix: WATER							
Total Metals by ICP-MS							
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Thorium (Th)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Tin (Sn)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Tungsten (W)-Total	<0.0010		0.0010	mg/L	30-MAY-11	30-MAY-11	R2196009
Uranium (U)-Total	<0.00010		0.00010	mg/L	30-MAY-11	30-MAY-11	R2196009
Vanadium (V)-Total	<0.00020		0.00020	mg/L	30-MAY-11	30-MAY-11	R2196009
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	30-MAY-11	30-MAY-11	R2196009
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	30-MAY-11	30-MAY-11	R2196009
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	27-MAY-11	31-MAY-11	R2196767
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Boron (B)-Dissolved	<0.010		0.010	mg/L	27-MAY-11	31-MAY-11	R2196767
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	27-MAY-11	31-MAY-11	R2196767
Calcium (Ca)-Dissolved	0.080		0.050	mg/L	27-MAY-11	31-MAY-11	R2196767
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	27-MAY-11	31-MAY-11	R2196767
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	27-MAY-11	31-MAY-11	R2196767
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	27-MAY-11	31-MAY-11	R2196767
Lithium (Li)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	27-MAY-11	31-MAY-11	R2196767
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	27-MAY-11	31-MAY-11	R2196767
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	27-MAY-11	31-MAY-11	R2196767
Potassium (K)-Dissolved	<0.020		0.020	mg/L	27-MAY-11	31-MAY-11	R2196767
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	27-MAY-11	31-MAY-11	R2196767
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	27-MAY-11	31-MAY-11	R2196767
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	27-MAY-11	31-MAY-11	R2196767
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	27-MAY-11	31-MAY-11	R2196767
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	27-MAY-11	31-MAY-11	R2196767
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	27-MAY-11	31-MAY-11	R2196767
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	27-MAY-11	31-MAY-11	R2196767
Chlorophyll a, Pheophytin by fluorometry							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010047-3 TRB06							
Sampled By: CLIENT on 25-MAY-11 @ 17:00							
Matrix: WATER							
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	<0.10		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO ₃)	1.8		1.0	mg/L		07-JUN-11	R2200310
Bicarbonate (HCO ₃)	2.2		2.0	mg/L		07-JUN-11	R2200310
Carbonate (CO ₃)	<0.60		0.60	mg/L		07-JUN-11	R2200310
Hydroxide (OH)	<0.40		0.40	mg/L		07-JUN-11	R2200310
Conductivity							
Conductivity	0.73		0.40	umhos/cm		06-JUN-11	R2200319
pH							
pH	6.00		0.10	pH units		28-MAY-11	R2196148

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B
Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically.			
BR-IC-WP	Water	Bromide	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
CHL,PHEO-FLUORO-WP	Water	Chlorophyll a, Pheophytin by fluorometry	EPA 445.0
Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification.			
CL-IC-WP	Water	Chloride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR
This analysis is carried out using procedures adapted from APHA 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. Colour is pH dependent. Unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit.			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.			
EC-WP	Water	Conductivity	APHA 2510B
Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	HARDNESS CALCULATED
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
F-IC-WP	Water	Fluoride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
		Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
		Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
		Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.	
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
		Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.	
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-WP	Water	Nitrite as N	EPA 300.1 IC
NO3-IC-WP	Water	Nitrate as N	EPA 300.1 IC
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
		This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.	
PH-WP	Water	pH	APHA 4500H
		The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.	
SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2
		This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.	
SO4-IC-WP	Water	Sulfate	EPA 300.1 IC
		This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".	
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540C
		The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.	
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540D
		The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.	
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1010047

Report Date: 13-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R2202438							
WG1294090-2	CVS							
Acidity (as CaCO3)			101		%		85-115	10-JUN-11
WG1294090-3	DUP	L1010047-1						
Acidity (as CaCO3)		2.2	2.2		mg/L	0.0	400	10-JUN-11
WG1294090-4	DUP	L1012148-11						
Acidity (as CaCO3)		2.0	1.9		mg/L	3.3	400	10-JUN-11
WG1294090-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	10-JUN-11
ALK-TOT-WP								
	Water							
Batch	R2196148							
WG1286686-3	CVS							
Alkalinity, Total (as CaCO3)			102		%		85-115	28-MAY-11
WG1286686-7	CVS							
Alkalinity, Total (as CaCO3)			108		%		85-115	28-MAY-11
WG1286686-4	DUP	L1009855-1						
Alkalinity, Total (as CaCO3)		432	432		mg/L	0.14	20	28-MAY-11
Bicarbonate (HCO3)		527	527		mg/L	0.14	25	28-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	28-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	28-MAY-11
WG1286686-5	DUP	L1010124-1						
Alkalinity, Total (as CaCO3)		440	439		mg/L	0.14	20	28-MAY-11
Bicarbonate (HCO3)		536	536		mg/L	0.14	25	28-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	28-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	28-MAY-11
Batch	R2200310							
WG1291913-3	CVS							
Alkalinity, Total (as CaCO3)			101		%		85-115	07-JUN-11
WG1291913-5	CVS							
Alkalinity, Total (as CaCO3)			110		%		85-115	07-JUN-11
WG1291913-4	DUP	L1012148-14						
Alkalinity, Total (as CaCO3)		16.0	15.9		mg/L	0.18	20	07-JUN-11
Bicarbonate (HCO3)		19.5	19.4		mg/L	0.18	25	07-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	07-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	07-JUN-11
WG1291913-6	DUP	L1012148-3						
Alkalinity, Total (as CaCO3)		20.7	20.8		mg/L	0.14	20	07-JUN-11



Quality Control Report

Workorder: L1010047

Report Date: 13-JUN-11

Page 2 of 20

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ALK-TOT-WP								
	Water							
Batch	R2200310							
WG1291913-6	DUP	L1012148-3						
Bicarbonate (HCO3)		25.3	25.3		mg/L	0.14	25	07-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	07-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	07-JUN-11
BR-IC-WP								
	Water							
Batch	R2196510							
WG1287662-2	LCS							
Bromide (Br)			102		%		85-115	30-MAY-11
WG1287662-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	30-MAY-11
C-DIS-ORG-WP								
	Water							
Batch	R2201700							
WG1293263-2	CVS							
Dissolved Organic Carbon			101		%		80-120	09-JUN-11
C-TOT-ORG-WP								
	Water							
Batch	R2201700							
WG1293263-2	CVS							
Total Organic Carbon			101		%		80-120	09-JUN-11
WG1293263-3	DUP	L1010393-1						
Total Organic Carbon		19.4	19.1		mg/L	1.2	20	09-JUN-11
WG1293263-1	MB							
Total Organic Carbon			<1.0		mg/L		1	09-JUN-11
CHL,PHEO-FLUORO-WP								
	Water							
Batch	R2196839							
WG1288191-1	CVS							
Chlorophyll a			103		%		65-135	01-JUN-11
WG1288191-2	CVS							
Chlorophyll a			120		%		65-135	01-JUN-11
WG1287097-2	DUP	L1009420-1						
Chlorophyll a		2.88	2.11		ug/L	31	35	01-JUN-11
Phaeophytin a		1.78	1.88		ug/L	5.5	35	01-JUN-11
WG1287097-1	MB							
Chlorophyll a			<0.10		ug/L		0.1	01-JUN-11
Phaeophytin a			<0.10		ug/L		0.1	01-JUN-11
CL-IC-WP								
	Water							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-IC-WP		Water						
Batch	R2196510							
WG1287662-3	DUP	L1009090-1						
Chloride		4.77	4.76		mg/L	0.23	20	30-MAY-11
WG1287662-2	LCS							
Chloride			99		%		85-115	30-MAY-11
WG1287662-1	MB							
Chloride			<0.50		mg/L		0.5	30-MAY-11
WG1287662-4	MS	L1009090-1						
Chloride			108		%		75-125	30-MAY-11
COLOUR-TRUE-WP		Water						
Batch	R2196539							
WG1286363-3	DUP	L1008742-1						
Colour, True		30.1	30.6		CU	1.6	20	28-MAY-11
WG1286363-2	LCS							
Colour, True			93		%		85-115	28-MAY-11
WG1286363-1	MB							
Colour, True			<5.0		CU		5	28-MAY-11
CONSULT-BOD-CBOD-WP		Water						
Batch	R2197300							
WG1286310-3	DUP	L1010045-1						
BOD Carbonaceous		<1.0	<1.0	RPD-NA	mg/L	N/A	400	02-JUN-11
WG1286310-2	IRM	61-GG						
BOD Carbonaceous			94		%		85-115	02-JUN-11
WG1286310-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	02-JUN-11
EC-WP		Water						
Batch	R2196148							
WG1286686-1	CVS							
Conductivity			97		%		90-110	28-MAY-11
WG1286686-4	DUP	L1009855-1						
Conductivity		1730	1730		umhos/cm	0.041	10	28-MAY-11
WG1286686-5	DUP	L1010124-1						
Conductivity		779	780		umhos/cm	0.033	10	28-MAY-11
Batch	R2200319							
WG1291926-1	CVS							
Conductivity			100		%		90-110	06-JUN-11
WG1291926-2	DUP	L1011291-4						
Conductivity		1.20	1.19		umhos/cm	0.84	400	06-JUN-11



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 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-WP		Water						
Batch	R2196510							
WG1287662-2	LCS							
Fluoride			103		%		85-115	30-MAY-11
WG1287662-1	MB							
Fluoride			<0.10		mg/L		0.1	30-MAY-11
HG-D-CVAF-WP		Water						
Batch	R2196940							
WG1288251-7	DUP	L1009420-6						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	30-MAY-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	30-MAY-11
WG1288251-2	LCS							
Mercury (Hg)-Dissolved			98		%		80-120	30-MAY-11
Mercury (Hg)-Dissolved			98		%		80-120	30-MAY-11
WG1288250-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	30-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	30-MAY-11
WG1288251-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	30-MAY-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	30-MAY-11
WG1288251-8	MS	L1009420-6						
Mercury (Hg)-Dissolved			102		%		70-130	30-MAY-11
Mercury (Hg)-Dissolved			102		%		70-130	30-MAY-11
HG-T-CVAF-WP		Water						
Batch	R2198344							
WG1289697-3	DUP	L1009186-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-5	DUP	L1010393-5						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-2	LCS							
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
WG1289697-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
WG1289697-4	MS	L1009186-1						
Mercury (Hg)-Total			109				70-130	



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
	Water							
Batch	R2198344							
WG1289697-4 MS		L1009186-1						
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
WG1289697-6 MS		L1010393-5						
Mercury (Hg)-Total			115		%		70-130	02-JUN-11
Mercury (Hg)-Total			115		%		70-130	02-JUN-11
MET-D-L-MS-WP								
	Water							
Batch	R2196767							
WG1288070-4 DUP		WG1288070-3						
Aluminum (Al)-Dissolved		0.0258	0.0252		mg/L	2.4	20	31-MAY-11
Antimony (Sb)-Dissolved		0.00321	0.00325		mg/L	1.3	20	31-MAY-11
Arsenic (As)-Dissolved		0.00459	0.00466		mg/L	1.5	20	31-MAY-11
Barium (Ba)-Dissolved		0.0268	0.0269		mg/L	0.38	20	31-MAY-11
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Boron (B)-Dissolved		0.029	0.029		mg/L	2.4	400	31-MAY-11
Cadmium (Cd)-Dissolved		0.00189	0.00187		mg/L	1.4	20	31-MAY-11
Calcium (Ca)-Dissolved		164	166		mg/L	1.7	20	31-MAY-11
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Chromium (Cr)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	31-MAY-11
Cobalt (Co)-Dissolved		0.00089	0.00089		mg/L	0.22	400	31-MAY-11
Copper (Cu)-Dissolved		0.0252	0.0250		mg/L	0.81	20	31-MAY-11
Iron (Fe)-Dissolved		0.16	0.16		mg/L	2.5	400	31-MAY-11
Lead (Pb)-Dissolved		0.00120	0.00120		mg/L	0.083	20	31-MAY-11
Lithium (Li)-Dissolved		0.0079	0.0078		mg/L	1.3	400	31-MAY-11
Magnesium (Mg)-Dissolved		10.8	10.7		mg/L	0.91	20	31-MAY-11
Manganese (Mn)-Dissolved		0.0595	0.0608		mg/L	2.3	20	31-MAY-11
Molybdenum (Mo)-Dissolved		0.00387	0.00371		mg/L	4.3	20	31-MAY-11
Nickel (Ni)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	31-MAY-11
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	31-MAY-11
Potassium (K)-Dissolved		6.11	6.16		mg/L	0.92	20	31-MAY-11
Rubidium (Rb)-Dissolved		0.00687	0.00665		mg/L	3.3	20	31-MAY-11
Selenium (Se)-Dissolved		0.0195	0.0198		mg/L	1.6	20	31-MAY-11
Silicon (Si)-Dissolved		0.995	1.02		mg/L	2.0	20	31-MAY-11



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 99 Commerce Drive
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2196767							
WG1288070-4	DUP	WG1288070-3						
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Sodium (Na)-Dissolved		30.2	30.7		mg/L	1.7	20	31-MAY-11
Strontium (Sr)-Dissolved		1.02	0.999		mg/L	1.9	20	31-MAY-11
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	31-MAY-11
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Titanium (Ti)-Dissolved		0.00152	0.00176		mg/L	14	20	31-MAY-11
Tungsten (W)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Vanadium (V)-Dissolved		0.00041	0.00037		mg/L	12	400	31-MAY-11
Zinc (Zn)-Dissolved		0.323	0.323		mg/L	0.10	20	31-MAY-11
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1288070-2	LCS							
Aluminum (Al)-Dissolved			105		%		80-120	01-JUN-11
Antimony (Sb)-Dissolved			112		%		80-120	01-JUN-11
Arsenic (As)-Dissolved			107		%		80-120	01-JUN-11
Barium (Ba)-Dissolved			112		%		80-120	01-JUN-11
Beryllium (Be)-Dissolved			113		%		80-120	01-JUN-11
Bismuth (Bi)-Dissolved			114		%		80-120	01-JUN-11
Boron (B)-Dissolved			115		%		80-120	01-JUN-11
Cadmium (Cd)-Dissolved			101		%		80-120	01-JUN-11
Calcium (Ca)-Dissolved			106		%		80-120	01-JUN-11
Cesium (Cs)-Dissolved			106		%		80-120	01-JUN-11
Chromium (Cr)-Dissolved			109		%		80-120	01-JUN-11
Cobalt (Co)-Dissolved			112		%		80-120	01-JUN-11
Copper (Cu)-Dissolved			106		%		80-120	01-JUN-11
Iron (Fe)-Dissolved			101		%		80-120	01-JUN-11
Lead (Pb)-Dissolved			110		%		80-120	01-JUN-11
Lithium (Li)-Dissolved			106		%		80-120	01-JUN-11
Magnesium (Mg)-Dissolved			107		%		80-120	01-JUN-11
Manganese (Mn)-Dissolved			112		%		80-120	01-JUN-11
Molybdenum (Mo)-Dissolved			108		%		80-120	01-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2196767							
WG1288070-2 LCS								
Nickel (Ni)-Dissolved			110		%		80-120	01-JUN-11
Phosphorus (P)-Dissolved			115		%		80-120	01-JUN-11
Potassium (K)-Dissolved			108		%		80-120	01-JUN-11
Rubidium (Rb)-Dissolved			111		%		80-120	01-JUN-11
Selenium (Se)-Dissolved			110		%		80-120	01-JUN-11
Silicon (Si)-Dissolved			112		%		80-120	01-JUN-11
Silver (Ag)-Dissolved			101		%		80-120	01-JUN-11
Sodium (Na)-Dissolved			112		%		80-120	01-JUN-11
Strontium (Sr)-Dissolved			105		%		80-120	01-JUN-11
Tellurium (Te)-Dissolved			101		%		80-120	01-JUN-11
Thallium (Tl)-Dissolved			115		%		80-120	01-JUN-11
Thorium (Th)-Dissolved			103		%		80-120	01-JUN-11
Tin (Sn)-Dissolved			101		%		80-120	01-JUN-11
Titanium (Ti)-Dissolved			108		%		80-120	01-JUN-11
Tungsten (W)-Dissolved			111		%		80-120	01-JUN-11
Uranium (U)-Dissolved			108		%		80-120	01-JUN-11
Vanadium (V)-Dissolved			112		%		80-120	01-JUN-11
Zinc (Zn)-Dissolved			106		%		80-120	01-JUN-11
Zirconium (Zr)-Dissolved			109		%		80-120	01-JUN-11
WG1288070-1 MB								
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.02	31-MAY-11
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Arsenic (As)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Boron (B)-Dissolved			<0.010		mg/L		0.03	31-MAY-11
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.0002	31-MAY-11
Calcium (Ca)-Dissolved			<0.050		mg/L		0.2	31-MAY-11
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	31-MAY-11
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Copper (Cu)-Dissolved			<0.00020		mg/L		0.002	31-MAY-11
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	31-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
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MET-D-L-MS-WP **Water**

Batch **R2196767**

WG1288070-1 **MB**

Lead (Pb)-Dissolved			<0.000090		mg/L		0.001	31-MAY-11
Lithium (Li)-Dissolved			<0.0020		mg/L		0.01	31-MAY-11
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.05	31-MAY-11
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.001	31-MAY-11
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.002	31-MAY-11
Phosphorus (P)-Dissolved			<0.10		mg/L		0.5	31-MAY-11
Potassium (K)-Dissolved			<0.020		mg/L		0.1	31-MAY-11
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Selenium (Se)-Dissolved			<0.0010		mg/L		0.005	31-MAY-11
Silicon (Si)-Dissolved			<0.050		mg/L		0.3	31-MAY-11
Silver (Ag)-Dissolved			<0.00010		mg/L		0.001	31-MAY-11
Sodium (Na)-Dissolved			<0.020		mg/L		0.05	31-MAY-11
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.005	31-MAY-11
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	31-MAY-11
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0006	31-MAY-11
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Tungsten (W)-Dissolved			<0.00020		mg/L		0.002	31-MAY-11
Uranium (U)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Vanadium (V)-Dissolved			<0.00020		mg/L		0.002	31-MAY-11
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.02	31-MAY-11
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.001	31-MAY-11

MET-T-L-MS-WP **Water**

Batch **R2196009**

WG1286743-4 **DUP**

Test	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed	
Aluminum (Al)-Total	WG1286743-3	<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	30-MAY-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Arsenic (As)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Barium (Ba)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2196009							
WG1286743-4	DUP	WG1286743-3						
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	30-MAY-11
Cadmium (Cd)-Total		0.000016	0.000015		mg/L	6.5	400	30-MAY-11
Calcium (Ca)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	30-MAY-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	30-MAY-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Copper (Cu)-Total		0.0683	0.0660		mg/L	3.5	20	30-MAY-11
Iron (Fe)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	30-MAY-11
Lead (Pb)-Total		0.00210	0.00206		mg/L	1.9	20	30-MAY-11
Lithium (Li)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	30-MAY-11
Magnesium (Mg)-Total		0.025	0.024		mg/L	1.7	400	30-MAY-11
Manganese (Mn)-Total		0.00031	<0.00030	RPD-NA	mg/L	N/A	400	30-MAY-11
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	30-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	30-MAY-11
Potassium (K)-Total		0.060	0.055		mg/L	9.1	400	30-MAY-11
Rubidium (Rb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	30-MAY-11
Silicon (Si)-Total		1.09	0.976		mg/L	11	20	30-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Sodium (Na)-Total		37.3	36.7		mg/L	1.6	20	30-MAY-11
Strontium (Sr)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	30-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Titanium (Ti)-Total		0.00027	0.00026		mg/L	4.9	400	30-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	30-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Zinc (Zn)-Total		0.0424	0.0411		mg/L	3.0	20	30-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	30-MAY-11
WG1286743-6	DUP	WG1286743-5						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2196009							
WG1286743-6	DUP	WG1286743-5						
Aluminum (Al)-Total		0.320	0.340		mg/L	6.1	20	30-MAY-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Arsenic (As)-Total		0.00049	0.00051		mg/L	3.8	400	30-MAY-11
Barium (Ba)-Total		0.0104	0.0105		mg/L	1.7	20	30-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Boron (B)-Total		0.317	0.318		mg/L	0.32	20	30-MAY-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	30-MAY-11
Calcium (Ca)-Total		21.8	22.1		mg/L	1.4	20	30-MAY-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	30-MAY-11
Cobalt (Co)-Total		0.00024	0.00025		mg/L	2.9	400	30-MAY-11
Copper (Cu)-Total		0.0448	0.0461		mg/L	2.8	20	30-MAY-11
Iron (Fe)-Total		1.28	1.33		mg/L	3.6	20	30-MAY-11
Lead (Pb)-Total		0.000302	0.000276		mg/L	9.0	400	30-MAY-11
Lithium (Li)-Total		0.0030	0.0029		mg/L	2.3	400	30-MAY-11
Magnesium (Mg)-Total		6.34	6.44		mg/L	1.6	20	30-MAY-11
Manganese (Mn)-Total		0.0228	0.0235		mg/L	2.8	20	30-MAY-11
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Nickel (Ni)-Total		0.0020	0.0021		mg/L	2.5	400	30-MAY-11
Phosphorus (P)-Total		0.50	0.52		mg/L	2.7	400	30-MAY-11
Potassium (K)-Total		1.40	1.45		mg/L	3.0	20	30-MAY-11
Rubidium (Rb)-Total		0.00163	0.00167		mg/L	2.7	20	30-MAY-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	30-MAY-11
Silicon (Si)-Total		0.979	1.07		mg/L	8.5	20	30-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Sodium (Na)-Total		34.2	37.3		mg/L	8.6	20	30-MAY-11
Strontium (Sr)-Total		0.0400	0.0399		mg/L	0.15	20	30-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	30-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	30-MAY-11
Titanium (Ti)-Total		0.00124	0.00128		mg/L			30-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2196009							
WG1286743-6	DUP	WG1286743-5						
Titanium (Ti)-Total		0.00124	0.00128		mg/L	2.9	20	30-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	30-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	30-MAY-11
Vanadium (V)-Total		0.00209	0.00216		mg/L	3.4	20	30-MAY-11
Zinc (Zn)-Total		0.0155	0.0160		mg/L	3.0	400	30-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	30-MAY-11
WG1286743-2	LCS							
Aluminum (Al)-Total			108		%		80-120	30-MAY-11
Antimony (Sb)-Total			107		%		80-120	30-MAY-11
Arsenic (As)-Total			104		%		80-120	30-MAY-11
Barium (Ba)-Total			111		%		80-120	30-MAY-11
Beryllium (Be)-Total			110		%		80-120	30-MAY-11
Bismuth (Bi)-Total			106		%		80-120	30-MAY-11
Boron (B)-Total			110		%		80-120	30-MAY-11
Cadmium (Cd)-Total			108		%		80-120	30-MAY-11
Calcium (Ca)-Total			109		%		80-120	30-MAY-11
Cesium (Cs)-Total			106		%		80-120	30-MAY-11
Chromium (Cr)-Total			106		%		80-120	30-MAY-11
Cobalt (Co)-Total			109		%		80-120	30-MAY-11
Copper (Cu)-Total			106		%		80-120	30-MAY-11
Iron (Fe)-Total			107		%		80-120	30-MAY-11
Lead (Pb)-Total			104		%		80-120	30-MAY-11
Lithium (Li)-Total			106		%		80-120	30-MAY-11
Magnesium (Mg)-Total			105		%		80-120	30-MAY-11
Manganese (Mn)-Total			108		%		80-120	30-MAY-11
Molybdenum (Mo)-Total			110		%		80-120	30-MAY-11
Nickel (Ni)-Total			109		%		80-120	30-MAY-11
Phosphorus (P)-Total			108		%		80-120	30-MAY-11
Potassium (K)-Total			106		%		80-120	30-MAY-11
Rubidium (Rb)-Total			108		%		80-120	30-MAY-11
Selenium (Se)-Total			104		%		80-120	30-MAY-11
Silicon (Si)-Total			109		%		80-120	30-MAY-11
Silver (Ag)-Total			107		%		80-120	30-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2196009							
WG1286743-2	LCS							
Sodium (Na)-Total			109		%		80-120	30-MAY-11
Strontium (Sr)-Total			105		%		80-120	30-MAY-11
Tellurium (Te)-Total			100		%		80-120	30-MAY-11
Thallium (Tl)-Total			107		%		80-120	30-MAY-11
Thorium (Th)-Total			104		%		70-130	30-MAY-11
Tin (Sn)-Total			108		%		80-120	30-MAY-11
Titanium (Ti)-Total			106		%		80-120	30-MAY-11
Tungsten (W)-Total			107		%		80-120	30-MAY-11
Uranium (U)-Total			111		%		80-120	30-MAY-11
Vanadium (V)-Total			111		%		80-120	30-MAY-11
Zinc (Zn)-Total			106		%		80-120	30-MAY-11
Zirconium (Zr)-Total			105		%		80-120	30-MAY-11
WG1286743-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.02	30-MAY-11
Antimony (Sb)-Total			<0.00020		mg/L		0.001	30-MAY-11
Arsenic (As)-Total			<0.00020		mg/L		0.001	30-MAY-11
Barium (Ba)-Total			<0.00020		mg/L		0.0005	30-MAY-11
Beryllium (Be)-Total			<0.00020		mg/L		0.001	30-MAY-11
Bismuth (Bi)-Total			<0.00020		mg/L		0.0005	30-MAY-11
Boron (B)-Total			<0.010		mg/L		0.03	30-MAY-11
Cadmium (Cd)-Total			<0.000010		mg/L		0.0002	30-MAY-11
Calcium (Ca)-Total			<0.10		mg/L		0.2	30-MAY-11
Cesium (Cs)-Total			<0.00010		mg/L		0.0005	30-MAY-11
Chromium (Cr)-Total			<0.0010		mg/L		0.002	30-MAY-11
Cobalt (Co)-Total			<0.00020		mg/L		0.0005	30-MAY-11
Copper (Cu)-Total			<0.00020		mg/L		0.002	30-MAY-11
Iron (Fe)-Total			<0.10		mg/L		0.1	30-MAY-11
Lead (Pb)-Total			<0.000090		mg/L		0.001	30-MAY-11
Lithium (Li)-Total			<0.0020		mg/L		0.002	30-MAY-11
Magnesium (Mg)-Total			<0.010		mg/L		0.05	30-MAY-11
Manganese (Mn)-Total			<0.00030		mg/L		0.001	30-MAY-11
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0005	30-MAY-11
Nickel (Ni)-Total			<0.0020		mg/L		0.002	30-MAY-11
Phosphorus (P)-Total			<0.20		mg/L		0.5	30-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2196009							
WG1286743-1 MB								
Potassium (K)-Total			<0.020		mg/L		0.1	30-MAY-11
Rubidium (Rb)-Total			<0.00020		mg/L		0.0005	30-MAY-11
Selenium (Se)-Total			<0.0010		mg/L		0.005	30-MAY-11
Silicon (Si)-Total			<0.050		mg/L		0.3	30-MAY-11
Silver (Ag)-Total			<0.00010		mg/L		0.001	30-MAY-11
Sodium (Na)-Total			<0.030		mg/L		0.05	30-MAY-11
Strontium (Sr)-Total			<0.00010		mg/L		0.0005	30-MAY-11
Tellurium (Te)-Total			<0.00020		mg/L		0.001	30-MAY-11
Thallium (Tl)-Total			<0.00010		mg/L		0.005	30-MAY-11
Thorium (Th)-Total			<0.00010		mg/L		0.0001	30-MAY-11
Tin (Sn)-Total			<0.00020		mg/L		0.0006	30-MAY-11
Titanium (Ti)-Total			<0.00020		mg/L		0.001	30-MAY-11
Tungsten (W)-Total			<0.0010		mg/L		0.002	30-MAY-11
Uranium (U)-Total			<0.00010		mg/L		0.0005	30-MAY-11
Vanadium (V)-Total			<0.00020		mg/L		0.002	30-MAY-11
Zinc (Zn)-Total			<0.0050		mg/L		0.02	30-MAY-11
Zirconium (Zr)-Total			<0.00040		mg/L		0.001	30-MAY-11
N-TOTKJ-WP		Water						
Batch	R2196965							
WG1288329-1 CVS								
Total Kjeldahl Nitrogen			95		%		90-110	01-JUN-11
WG1287348-4 DUP	L1010124-1							
Total Kjeldahl Nitrogen	0.39	0.34			mg/L	13	20	01-JUN-11
WG1287348-7 DUP	L1010393-1							
Total Kjeldahl Nitrogen	0.88	0.86			mg/L	2.2	20	01-JUN-11
WG1287348-2 LCS								
Total Kjeldahl Nitrogen			94		%		75-125	01-JUN-11
WG1287348-1 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	01-JUN-11
WG1287348-5 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	01-JUN-11
WG1287348-3 MS	L1010124-1							
Total Kjeldahl Nitrogen			86		%		70-130	01-JUN-11
WG1287348-6 MS	L1010393-1							
Total Kjeldahl Nitrogen			96		%		70-130	01-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-COL-WP		Water						
Batch	R2200308							
WG1291885-3	DUP	L1011705-3						
Ammonia as N		0.433	0.437		mg/L	0.75	20	07-JUN-11
WG1291885-5	DUP	L1010336-3						
Ammonia as N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	07-JUN-11
WG1291885-2	LCS							
Ammonia as N			99		%		85-115	07-JUN-11
WG1291885-1	MB							
Ammonia as N			<0.050		mg/L		0.05	07-JUN-11
WG1291885-4	MS	L1009861-4						
Ammonia as N			101		%		75-125	07-JUN-11
WG1291885-6	MS	L1010336-3						
Ammonia as N			115		%		75-125	07-JUN-11
NO2-IC-WP		Water						
Batch	R2196510							
WG1287662-3	DUP	L1009090-1						
Nitrite-N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	30-MAY-11
WG1287662-2	LCS							
Nitrite-N			100		%		85-115	30-MAY-11
WG1287662-1	MB							
Nitrite-N			<0.050		mg/L		0.05	30-MAY-11
WG1287662-4	MS	L1009090-1						
Nitrite-N			100		%		75-125	30-MAY-11
NO3-IC-WP		Water						
Batch	R2196510							
WG1287662-3	DUP	L1009090-1						
Nitrate-N		4.33	4.33		mg/L	0.085	20	30-MAY-11
WG1287662-2	LCS							
Nitrate-N			99		%		85-115	30-MAY-11
WG1287662-1	MB							
Nitrate-N			<0.050		mg/L		0.05	30-MAY-11
WG1287662-4	MS	L1009090-1						
Nitrate-N			N/A	MS-B	%		-	30-MAY-11
P-T-COL-WP		Water						
Batch	R2196166							
WG1286133-3	DUP	L1009621-1						
Phosphorus (P)-Total		73.3	70.1		mg/L	4.5	20	30-MAY-11
WG1286133-4	DUP	L1009704-2						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-T-COL-WP		Water						
Batch	R2196166							
WG1286133-4	DUP	L1009704-2						
Phosphorus (P)-Total		15.8	14.6		mg/L	7.9	20	30-MAY-11
WG1286133-2	LCS							
Phosphorus (P)-Total			95		%		80-120	30-MAY-11
WG1286133-1	MB							
Phosphorus (P)-Total			<0.010		mg/L		0.01	30-MAY-11
WG1286133-5	MS	L1009610-1						
Phosphorus (P)-Total			97		%		70-130	30-MAY-11
PH-WP		Water						
Batch	R2196148							
WG1286686-4	DUP	L1009855-1						
pH		7.53	7.54	J	pH units	0.01	0.2	28-MAY-11
WG1286686-5	DUP	L1010124-1						
pH		7.88	7.89	J	pH units	0.01	0.2	28-MAY-11
WG1286686-6	DUP	L1010112-1						
pH		8.57	8.60	J	pH units	0.04	0.2	28-MAY-11
WG1286686-2	LCS							
pH			7.42		pH units		7.3-7.5	28-MAY-11
SIO2-L-COL-WP		Water						
Batch	R2200809							
WG1292266-5	DUP	L1012431-2						
Silica, Reactive (as SiO2)		6.06	6.21		mg/L	2.6	20	08-JUN-11
WG1292266-6	DUP	L1010371-3						
Silica, Reactive (as SiO2)		8.12	8.27		mg/L	1.8	20	08-JUN-11
WG1292266-2	LCS							
Silica, Reactive (as SiO2)			99		%		85-115	08-JUN-11
WG1292266-1	MB							
Silica, Reactive (as SiO2)			<0.0050		mg/L		0.005	08-JUN-11
WG1292266-3	MS	L1008007-4						
Silica, Reactive (as SiO2)			97		%		75-125	08-JUN-11
WG1292266-4	MS	L1010336-3						
Silica, Reactive (as SiO2)			97		%		75-125	08-JUN-11
SO4-IC-WP		Water						
Batch	R2196510							
WG1287662-3	DUP	L1009090-1						
Sulfate		119	119		mg/L	0.15	20	30-MAY-11
WG1287662-2	LCS							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SO4-IC-WP								
	Water							
Batch	R2196510							
WG1287662-2	LCS							
Sulfate			100		%		85-115	30-MAY-11
WG1287662-1	MB							
Sulfate			<0.50		mg/L		0.5	30-MAY-11
WG1287662-4	MS	L1009090-1						
Sulfate			N/A	MS-B	%		-	30-MAY-11
SOLIDS-TDS-WP								
	Water							
Batch	R2196836							
WG1287243-2	CVS							
Total Dissolved Solids			101		%		85-115	31-MAY-11
WG1287243-4	DUP	L1010017-2						
Total Dissolved Solids		226	200		mg/L	12	20	31-MAY-11
WG1287243-5	DUP	L1010336-3						
Total Dissolved Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1287243-7	DUP	L1010604-1						
Total Dissolved Solids		1290	1420		mg/L	9.6	20	31-MAY-11
WG1287243-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	31-MAY-11
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2196836							
WG1287243-2	CVS							
Total Suspended Solids			96		%		85-115	31-MAY-11
WG1287243-4	DUP	L1010017-2						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1287243-5	DUP	L1010336-3						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1287243-6	DUP	L1010351-4						
Total Suspended Solids		26.0	29.0		mg/L	11	20	31-MAY-11
WG1287243-7	DUP	L1010604-1						
Total Suspended Solids		440	450		mg/L	2.2	20	31-MAY-11
WG1287243-1	MB							
Total Suspended Solids			<5.0		mg/L		5	31-MAY-11
TURBIDITY-WP								
	Water							
Batch	R2195240							
WG1286347-3	DUP	L1009585-1						
Turbidity		0.28	0.28		NTU	1.1	15	27-MAY-11
WG1286347-2	LCS							



Quality Control Report

Workorder: L1010047

Report Date: 13-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
99 Commerce Drive
Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TURBIDITY-WP	Water							
Batch	R2195240							
WG1286347-2	LCS							
Turbidity			101		%		85-115	27-MAY-11
WG1286347-1	MB							
Turbidity			<0.10		NTU		0.1	27-MAY-11

Quality Control Report

Workorder: L1010047

Report Date: 13-JUN-11

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L1010047

Report Date: 13-JUN-11

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Turbidity							
	1	25-MAY-11 13:00	27-MAY-11 16:52	48	52	hours	EHTR
	2	25-MAY-11 11:30	27-MAY-11 16:52	48	53	hours	EHTR
pH							
	1	25-MAY-11 13:00	28-MAY-11 11:36	0.25	71	hours	EHTR-FM
	2	25-MAY-11 11:30	28-MAY-11 11:36	0.25	72	hours	EHTR-FM
	3	25-MAY-11 17:00	28-MAY-11 11:36	0.25	67	hours	EHTR-FM
Anions and Nutrients							
Acidity							
	1	25-MAY-11 13:00	10-JUN-11 12:46	14	16	days	EHT
	2	25-MAY-11 11:30	10-JUN-11 12:46	14	16	days	EHT
	3	25-MAY-11 17:00	10-JUN-11 12:46	14	16	days	EHT
Bromide							
	1	25-MAY-11 13:00	30-MAY-11 16:26	48	123	hours	EHTR
	2	25-MAY-11 11:30	30-MAY-11 16:26	48	125	hours	EHTR
	3	25-MAY-11 17:00	30-MAY-11 16:26	48	120	hours	EHTL
Nitrate as N							
	1	25-MAY-11 13:00	30-MAY-11 16:26	48	123	hours	EHTR
	2	25-MAY-11 11:30	30-MAY-11 16:26	48	125	hours	EHTR
	3	25-MAY-11 17:00	30-MAY-11 16:26	48	120	hours	EHTL
Nitrite as N							
	1	25-MAY-11 13:00	30-MAY-11 16:26	48	123	hours	EHTR
	2	25-MAY-11 11:30	30-MAY-11 16:26	48	125	hours	EHTR
	3	25-MAY-11 17:00	30-MAY-11 16:26	48	120	hours	EHTL
Phosphorus, Total							
	1	25-MAY-11 13:00	27-MAY-11 17:30	48	53	hours	EHTR
	2	25-MAY-11 11:30	27-MAY-11 17:30	48	54	hours	EHTR
Aggregate Organics							
Carbonaceous BOD							
	1	25-MAY-11 13:00	28-MAY-11 13:27	48	72	hours	EHTR
	2	25-MAY-11 11:30	28-MAY-11 13:27	48	74	hours	EHTR
	3	25-MAY-11 17:00	28-MAY-11 13:27	48	68	hours	EHTL
Organic Parameters							
Chlorophyll a, Pheophytin by fluorometry							
	1	25-MAY-11 13:00	27-MAY-11 15:15	48	50	hours	EHTR
	2	25-MAY-11 11:30	27-MAY-11 15:15	48	52	hours	EHTR

Legend & Qualifier Definitions:

- EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
- EHTR: Exceeded ALS recommended hold time prior to sample receipt.
- EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
- EHT: Exceeded ALS recommended hold time prior to analysis.
- Rec. HT: ALS recommended hold time (see units).

Notes*:
 Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
 Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1010047 were received on 27-MAY-11 15:15.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

Quality Control Report

Workorder: L1010047

Report Date: 13-JUN-11

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The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



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

COC #

L 1010047 Page 1 of 1

Report To
 Company: AECOM -W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone: _____ Fax: _____
 Email 1: cliff.samoiloff@aecom.com
 Email 2: shawna.kjartanson@aecom.com
 Email 3: _____

Client / Project Information
 Job #: 60212492-200
 PO / AFE: _____
 LSD: _____
 Quote #: Q24534

ALS Contact:
 Lab Work Order #: _____
 (lab use only)

Sample #	Sample Identification (This description will appear on the report)	Sampler:		Date (dd-mm-yy)	Sample Type	Chlorophylla / Pheophytin	Activity, Colour, Turbidity	Anions, Br, silica, ph, ec, Alk	NH ₃ , TKN, PT	CBOD	Solids (TSS, TDS)	Metals & Hg - Total	Metals & Hg - Dissolved	TOC, DOC	Number of Containers
		Time (hr:mm)	Time (hr:mm)												
	SNL 01			25 MAY 11	water	X	X	X	X	X	X	X	X	X	6
	SNL 02			25 MAY 11	water	X	X	X	X	X	X	X	X	X	6
	TRB 01			25 MAY 11	water	X	X	X	X	X	X	X	X	X	6

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: _____ Date (dd-mm-yy): 25-05-11 18:45
 Received by: _____ Date: 27 MAY 11 15:15
 Temperature: 12.5 °C

SHIPMENT: RELEASE (client use) SHIPMENT: RECEPTION (lab use only) SHIPMENT: VERIFICATION (lab use only)

Observations: Yes / No? _____
 If Yes add SIF _____



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 30-MAY-11
Report Date: 14-JUN-11 12:57 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1010336
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-200
Legal Site Desc:
C of C Numbers:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010336-1 NTL-01							
Sampled By: CLIENT on 28-MAY-11							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		30-MAY-11	R2196510
Fluoride							
Fluoride	<0.10		0.10	mg/L		30-MAY-11	R2196510
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		30-MAY-11	R2196510
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		30-MAY-11	R2196510
Sulfate							
Sulfate	<0.50		0.50	mg/L		30-MAY-11	R2196510
Miscellaneous Parameters							
Acidity (as CaCO3)	1.4		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	0.064		0.050	mg/L		07-JUN-11	R2200308
Bromide (Br)	<0.10		0.10	mg/L		30-MAY-11	R2196510
BOD Carbonaceous	1.5		1.0	mg/L	30-MAY-11	04-JUN-11	R2198764
Colour, True	88.7		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	24.3		1.0	mg/L		09-JUN-11	R2201700
Hardness (as CaCO3)	25.0		0.20	mg/L		01-JUN-11	
Hardness (as CaCO3)	26.5		0.30	mg/L		03-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		30-MAY-11	
Phosphorus (P)-Total	0.016		0.010	mg/L		31-MAY-11	R2196815
Silica, Reactive (as SiO2)	1.11		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	30.0		5.0	mg/L		31-MAY-11	R2196836
Total Kjeldahl Nitrogen	1.05		0.20	mg/L	30-MAY-11	01-JUN-11	R2196965
Total Organic Carbon	24.5		1.0	mg/L		09-JUN-11	R2201700
Total Suspended Solids	<5.0		5.0	mg/L		31-MAY-11	R2196836
Turbidity	1.17		0.10	NTU		30-MAY-11	R2196236
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0790		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Arsenic (As)-Total	0.00127		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Barium (Ba)-Total	0.00983		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Boron (B)-Total	<0.010		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	31-MAY-11	31-MAY-11	R2196871
Calcium (Ca)-Total	7.16		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Copper (Cu)-Total	0.00051		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Iron (Fe)-Total	0.43		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Lead (Pb)-Total	0.000180		0.000090	mg/L	31-MAY-11	31-MAY-11	R2196871
Lithium (Li)-Total	<0.0020		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871
Magnesium (Mg)-Total	2.10		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Manganese (Mn)-Total	0.0172		0.00030	mg/L	31-MAY-11	31-MAY-11	R2196871
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010336-1 NTL-01							
Sampled By: CLIENT on 28-MAY-11							
Matrix: WATER							
Total Metals by ICP-MS							
Phosphorus (P)-Total	<0.20		0.20	mg/L	31-MAY-11	31-MAY-11	R2196871
Potassium (K)-Total	0.511		0.020	mg/L	31-MAY-11	31-MAY-11	R2196871
Rubidium (Rb)-Total	0.00098		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Selenium (Se)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Silicon (Si)-Total	0.678		0.050	mg/L	31-MAY-11	31-MAY-11	R2196871
Silver (Ag)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Sodium (Na)-Total	0.807		0.030	mg/L	31-MAY-11	31-MAY-11	R2196871
Strontium (Sr)-Total	0.0116		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Thorium (Th)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tin (Sn)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Titanium (Ti)-Total	0.00053		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Tungsten (W)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Uranium (U)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Vanadium (V)-Total	0.00027		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	31-MAY-11	31-MAY-11	R2196871
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0552		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Arsenic (As)-Dissolved	0.00114		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Barium (Ba)-Dissolved	0.00831		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Boron (B)-Dissolved	<0.010		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Cadmium (Cd)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Calcium (Ca)-Dissolved	6.75		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Copper (Cu)-Dissolved	0.00038		0.00020	mg/L	30-MAY-11	03-JUN-11	R2198253
Iron (Fe)-Dissolved	0.28		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Lead (Pb)-Dissolved	0.000090		0.000090	mg/L	30-MAY-11	31-MAY-11	R2196767
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Magnesium (Mg)-Dissolved	1.98		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Manganese (Mn)-Dissolved	0.00123		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Potassium (K)-Dissolved	0.488		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Rubidium (Rb)-Dissolved	0.00085		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Silicon (Si)-Dissolved	0.407		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Sodium (Na)-Dissolved	0.670		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Strontium (Sr)-Dissolved	0.0100		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010336-1 NTL-01							
Sampled By: CLIENT on 28-MAY-11							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Titanium (Ti)-Dissolved	0.00027		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Vanadium (V)-Dissolved	0.00028		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	30-MAY-11	31-MAY-11	R2196767
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	3.08		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	2.86		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	19.8		1.0	mg/L		07-JUN-11	R2200310
Bicarbonate (HCO3)	24.2		2.0	mg/L		07-JUN-11	R2200310
Carbonate (CO3)	<0.60		0.60	mg/L		07-JUN-11	R2200310
Hydroxide (OH)	<0.40		0.40	mg/L		07-JUN-11	R2200310
Conductivity							
Conductivity	46.5		0.40	umhos/cm		30-MAY-11	R2196175
pH							
pH	7.33		0.10	pH units		30-MAY-11	R2196175
L1010336-2 GSL-01							
Sampled By: CLIENT on 28-MAY-11							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	0.51		0.50	mg/L		30-MAY-11	R2196510
Fluoride							
Fluoride	<0.10		0.10	mg/L		30-MAY-11	R2196510
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		30-MAY-11	R2196510
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		30-MAY-11	R2196510
Sulfate							
Sulfate	<0.50		0.50	mg/L		30-MAY-11	R2196510
Miscellaneous Parameters							
Acidity (as CaCO3)	1.1		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		07-JUN-11	R2200308
Bromide (Br)	<0.10		0.10	mg/L		30-MAY-11	R2196510
BOD Carbonaceous	<1.0		1.0	mg/L	30-MAY-11	04-JUN-11	R2198764
Colour, True	80.9		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	18.7		1.0	mg/L		09-JUN-11	R2201700
Hardness (as CaCO3)	45.8		0.20	mg/L		01-JUN-11	
Hardness (as CaCO3)	48.2		0.30	mg/L		03-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		30-MAY-11	
Phosphorus (P)-Total	0.016		0.010	mg/L		31-MAY-11	R2196815
Silica, Reactive (as SiO2)	5.20		0.0050	mg/L		10-JUN-11	R2202013
Total Dissolved Solids	50.0		5.0	mg/L		31-MAY-11	R2196836
Total Kjeldahl Nitrogen	0.73		0.20	mg/L	30-MAY-11	01-JUN-11	R2196965
Total Organic Carbon	18.7		1.0	mg/L		09-JUN-11	R2201700

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010336-2	GSL-01						
Sampled By:	CLIENT on 28-MAY-11						
Matrix:	WATER						
Total Suspended Solids	<5.0		5.0	mg/L		31-MAY-11	R2196836
Turbidity	1.13		0.10	NTU		30-MAY-11	R2196236
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0130		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Arsenic (As)-Total	0.00123		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Barium (Ba)-Total	0.00452		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Boron (B)-Total	<0.010		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	31-MAY-11	31-MAY-11	R2196871
Calcium (Ca)-Total	13.2		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Copper (Cu)-Total	0.00030		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Iron (Fe)-Total	1.17		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Lead (Pb)-Total	<0.000090		0.000090	mg/L	31-MAY-11	31-MAY-11	R2196871
Lithium (Li)-Total	<0.0020		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871
Magnesium (Mg)-Total	3.68		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Manganese (Mn)-Total	0.0245		0.00030	mg/L	31-MAY-11	31-MAY-11	R2196871
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871
Phosphorus (P)-Total	<0.20		0.20	mg/L	31-MAY-11	31-MAY-11	R2196871
Potassium (K)-Total	0.760		0.020	mg/L	31-MAY-11	31-MAY-11	R2196871
Rubidium (Rb)-Total	0.00089		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Selenium (Se)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Silicon (Si)-Total	2.63		0.050	mg/L	31-MAY-11	31-MAY-11	R2196871
Silver (Ag)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Sodium (Na)-Total	1.13		0.030	mg/L	31-MAY-11	31-MAY-11	R2196871
Strontium (Sr)-Total	0.0174		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Thorium (Th)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tin (Sn)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Titanium (Ti)-Total	0.00033		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Tungsten (W)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Uranium (U)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Vanadium (V)-Total	0.00025		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	31-MAY-11	31-MAY-11	R2196871
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0069		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Arsenic (As)-Dissolved	0.00115		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Barium (Ba)-Dissolved	0.00395		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Boron (B)-Dissolved	<0.010		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	30-MAY-11	31-MAY-11	R2196767
Calcium (Ca)-Dissolved	12.5		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010336-2							
GSL-01							
Sampled By: CLIENT on 28-MAY-11							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	03-JUN-11	R2198253
Iron (Fe)-Dissolved	0.88		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	30-MAY-11	31-MAY-11	R2196767
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Magnesium (Mg)-Dissolved	3.55		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Manganese (Mn)-Dissolved	0.00181		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Potassium (K)-Dissolved	0.687		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Rubidium (Rb)-Dissolved	0.00080		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Silicon (Si)-Dissolved	2.21		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Sodium (Na)-Dissolved	0.925		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Strontium (Sr)-Dissolved	0.0163		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Vanadium (V)-Dissolved	0.00042		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	30-MAY-11	31-MAY-11	R2196767
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	1.56		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	1.50		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	41.3		1.0	mg/L		30-MAY-11	R2196175
Bicarbonate (HCO3)	50.4		2.0	mg/L		30-MAY-11	R2196175
Carbonate (CO3)	<0.60		0.60	mg/L		30-MAY-11	R2196175
Hydroxide (OH)	<0.40		0.40	mg/L		30-MAY-11	R2196175
Conductivity							
Conductivity	85.4		0.40	umhos/cm		30-MAY-11	R2196175
pH							
pH	7.77		0.10	pH units		30-MAY-11	R2196175
L1010336-3							
TRB-08							
Sampled By: CLIENT on 28-MAY-11							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		30-MAY-11	R2196510
Fluoride							
Fluoride	<0.10		0.10	mg/L		30-MAY-11	R2196510
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		30-MAY-11	R2196510

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010336-3 TRB-08							
Sampled By: CLIENT on 28-MAY-11							
Matrix: WATER							
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		30-MAY-11	R2196510
Sulfate							
Sulfate	<0.50		0.50	mg/L		30-MAY-11	R2196510
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		03-JUN-11	R2200530
Ammonia as N	<0.050		0.050	mg/L		07-JUN-11	R2200308
Bromide (Br)	<0.10		0.10	mg/L		30-MAY-11	R2196510
BOD Carbonaceous	<1.0		1.0	mg/L	30-MAY-11	04-JUN-11	R2198764
Colour, True	<5.0		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	<1.0		1.0	mg/L		09-JUN-11	R2201700
Hardness (as CaCO3)	<0.20		0.20	mg/L		01-JUN-11	
Hardness (as CaCO3)	<0.30		0.30	mg/L		03-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		30-MAY-11	
Phosphorus (P)-Total	<0.010		0.010	mg/L		31-MAY-11	R2196815
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	<5.0		5.0	mg/L		31-MAY-11	R2196836
Total Kjeldahl Nitrogen	0.20		0.20	mg/L	30-MAY-11	01-JUN-11	R2196965
Total Organic Carbon	<1.0		1.0	mg/L		09-JUN-11	R2201700
Total Suspended Solids	<5.0		5.0	mg/L		31-MAY-11	R2196836
Turbidity	0.29		0.10	NTU		30-MAY-11	R2196236
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Arsenic (As)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Barium (Ba)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Boron (B)-Total	<0.010		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	31-MAY-11	31-MAY-11	R2196871
Calcium (Ca)-Total	<0.10		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Copper (Cu)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Iron (Fe)-Total	<0.10		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Lead (Pb)-Total	<0.000090		0.000090	mg/L	31-MAY-11	31-MAY-11	R2196871
Lithium (Li)-Total	<0.0020		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871
Magnesium (Mg)-Total	<0.010		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	31-MAY-11	31-MAY-11	R2196871
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871
Phosphorus (P)-Total	<0.20		0.20	mg/L	31-MAY-11	31-MAY-11	R2196871
Potassium (K)-Total	<0.020		0.020	mg/L	31-MAY-11	31-MAY-11	R2196871
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Selenium (Se)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Silicon (Si)-Total	<0.050		0.050	mg/L	31-MAY-11	31-MAY-11	R2196871
Silver (Ag)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Sodium (Na)-Total	<0.030		0.030	mg/L	31-MAY-11	31-MAY-11	R2196871

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010336-3 TRB-08							
Sampled By: CLIENT on 28-MAY-11							
Matrix: WATER							
Total Metals by ICP-MS							
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Thorium (Th)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tin (Sn)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Titanium (Ti)-Total	0.00039		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Tungsten (W)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Uranium (U)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Vanadium (V)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	31-MAY-11	31-MAY-11	R2196871
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Boron (B)-Dissolved	<0.010		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	30-MAY-11	31-MAY-11	R2196767
Calcium (Ca)-Dissolved	0.079		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	03-JUN-11	R2198253
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	30-MAY-11	31-MAY-11	R2196767
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Manganese (Mn)-Dissolved	0.00041		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Potassium (K)-Dissolved	0.027		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	30-MAY-11	31-MAY-11	R2196767
Chlorophyll a, Pheophytin by fluorometry							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010336-3 TRB-08							
Sampled By: CLIENT on 28-MAY-11							
Matrix: WATER							
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	<0.10		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO ₃)	1.8		1.0	mg/L		07-JUN-11	R2200310
Bicarbonate (HCO ₃)	2.2		2.0	mg/L		07-JUN-11	R2200310
Carbonate (CO ₃)	<0.60		0.60	mg/L		07-JUN-11	R2200310
Hydroxide (OH)	<0.40		0.40	mg/L		07-JUN-11	R2200310
Conductivity							
Conductivity	0.78		0.40	umhos/cm		06-JUN-11	R2200319
pH							
pH	5.94		0.10	pH units		30-MAY-11	R2196175

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B
Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically.			
BR-IC-WP	Water	Bromide	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
CHL,PHEO-FLUORO-WP	Water	Chlorophyll a, Pheophytin by fluorometry	EPA 445.0
Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification.			
CL-IC-WP	Water	Chloride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR
This analysis is carried out using procedures adapted from APHA 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. Colour is pH dependent. Unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit.			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.			
EC-WP	Water	Conductivity	APHA 2510B
Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	HARDNESS CALCULATED
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
F-IC-WP	Water	Fluoride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
		Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
		Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
		Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.	
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
		Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.	
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-WP	Water	Nitrite as N	EPA 300.1 IC
NO3-IC-WP	Water	Nitrate as N	EPA 300.1 IC
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
		This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.	
PH-WP	Water	pH	APHA 4500H
		The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.	
SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2
		This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.	
SO4-IC-WP	Water	Sulfate	EPA 300.1 IC
		This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".	
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540C
		The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.	
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540D
		The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.	
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1010336

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R2200530							
WG1292189-2	CVS							
Acidity (as CaCO3)			104		%		85-115	03-JUN-11
WG1292189-3	DUP	L1007855-2						
Acidity (as CaCO3)		1.6	1.6		mg/L	0.32	400	03-JUN-11
WG1292189-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	03-JUN-11
ALK-TOT-WP								
	Water							
Batch	R2196175							
WG1287385-3	CVS							
Alkalinity, Total (as CaCO3)			100		%		85-115	30-MAY-11
WG1287385-5	DUP	L1010399-1						
Alkalinity, Total (as CaCO3)		346	345		mg/L	0.12	20	30-MAY-11
Bicarbonate (HCO3)		422	421		mg/L	0.12	25	30-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	30-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	30-MAY-11
Batch	R2200310							
WG1291913-3	CVS							
Alkalinity, Total (as CaCO3)			101		%		85-115	07-JUN-11
WG1291913-5	CVS							
Alkalinity, Total (as CaCO3)			110		%		85-115	07-JUN-11
WG1291913-4	DUP	L1012148-14						
Alkalinity, Total (as CaCO3)		16.0	15.9		mg/L	0.18	20	07-JUN-11
Bicarbonate (HCO3)		19.5	19.4		mg/L	0.18	25	07-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	07-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	07-JUN-11
WG1291913-6	DUP	L1012148-3						
Alkalinity, Total (as CaCO3)		20.7	20.8		mg/L	0.14	20	07-JUN-11
Bicarbonate (HCO3)		25.3	25.3		mg/L	0.14	25	07-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	07-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	07-JUN-11
BR-IC-WP								
	Water							
Batch	R2196510							
WG1287662-2	LCS							
Bromide (Br)			102		%		85-115	30-MAY-11
WG1287662-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	30-MAY-11



Quality Control Report

Workorder: L1010336

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-DIS-ORG-WP		Water						
Batch	R2201700							
WG1293263-2	CVS							
Dissolved Organic Carbon			101		%		80-120	09-JUN-11
C-TOT-ORG-WP		Water						
Batch	R2201700							
WG1293263-2	CVS							
Total Organic Carbon			101		%		80-120	09-JUN-11
WG1293263-3	DUP	L1010393-1						
Total Organic Carbon			19.4	19.1	mg/L	1.2	20	09-JUN-11
WG1293263-1	MB							
Total Organic Carbon			<1.0		mg/L		1	09-JUN-11
CHL,PHEO-FLUORO-WP		Water						
Batch	R2196839							
WG1288191-1	CVS							
Chlorophyll a			103		%		65-135	01-JUN-11
WG1288191-2	CVS							
Chlorophyll a			120		%		65-135	01-JUN-11
WG1287097-2	DUP	L1009420-1						
Chlorophyll a			2.88	2.11	ug/L	31	35	01-JUN-11
Phaeophytin a			1.78	1.88	ug/L	5.5	35	01-JUN-11
WG1287097-1	MB							
Chlorophyll a			<0.10		ug/L		0.1	01-JUN-11
Phaeophytin a			<0.10		ug/L		0.1	01-JUN-11
CL-IC-WP		Water						
Batch	R2196510							
WG1287662-3	DUP	L1009090-1						
Chloride			4.77	4.76	mg/L	0.23	20	30-MAY-11
WG1287662-2	LCS							
Chloride			99		%		85-115	30-MAY-11
WG1287662-1	MB							
Chloride			<0.50		mg/L		0.5	30-MAY-11
WG1287662-4	MS	L1009090-1						
Chloride			108		%		75-125	30-MAY-11
COLOUR-TRUE-WP		Water						



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Client: AECOM Canada Ltd. (Winnipeg)
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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
COLOUR-TRUE-WP		Water						
Batch	R2198910							
WG1290376-3	DUP	L1010400-1						
Colour, True		10.3	9.3		CU	10	400	03-JUN-11
WG1290376-4	DUP	L1011306-2						
Colour, True		94.2	96.5		CU	2.4	20	03-JUN-11
WG1290376-2	LCS							
Colour, True			98		%		85-115	03-JUN-11
WG1290376-1	MB							
Colour, True			<5.0		CU		5	03-JUN-11
CONSULT-BOD-CBOD-WP		Water						
Batch	R2198764							
WG1286867-3	DUP	L1010336-1						
BOD Carbonaceous		1.5	1.4		mg/L	7.1	400	04-JUN-11
WG1286867-2	IRM	61-GG						
BOD Carbonaceous			102		%		85-115	04-JUN-11
WG1286867-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	04-JUN-11
EC-WP		Water						
Batch	R2196175							
WG1287385-1	CVS							
Conductivity			99		%		90-110	30-MAY-11
WG1287385-4	DUP	L1010352-1						
Conductivity		800	800		umhos/cm	0.013	10	30-MAY-11
WG1287385-5	DUP	L1010399-1						
Conductivity		641	644		umhos/cm	0.49	10	30-MAY-11
WG1287385-6	DUP	L1010336-1						
Conductivity		46.5	46.6		umhos/cm	0.21	10	30-MAY-11
Batch	R2200319							
WG1291926-1	CVS							
Conductivity			100		%		90-110	06-JUN-11
WG1291926-2	DUP	L1011291-4						
Conductivity		1.20	1.19		umhos/cm	0.84	400	06-JUN-11
F-IC-WP		Water						
Batch	R2196510							
WG1287662-2	LCS							
Fluoride			103		%		85-115	30-MAY-11
WG1287662-1	MB							
Fluoride			<0.10		mg/L		0.1	30-MAY-11



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAF-WP								
	Water							
Batch	R2203120							
WG1294817-3	DUP	L1010336-3						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
WG1294817-5	DUP	L1011291-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
WG1294817-2	LCS							
Mercury (Hg)-Dissolved			92		%		80-120	08-JUN-11
Mercury (Hg)-Dissolved			92		%		80-120	08-JUN-11
WG1294816-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
WG1294817-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
WG1294817-4	MS	L1010336-3						
Mercury (Hg)-Dissolved			99		%		70-130	08-JUN-11
Mercury (Hg)-Dissolved			99		%		70-130	08-JUN-11
WG1294817-6	MS	L1011291-1						
Mercury (Hg)-Dissolved			91		%		70-130	08-JUN-11
Mercury (Hg)-Dissolved			91		%		70-130	08-JUN-11
HG-T-CVAF-WP								
	Water							
Batch	R2198344							
WG1289697-3	DUP	L1009186-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-5	DUP	L1010393-5						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-2	LCS							
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
WG1289697-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
WG1289697-4	MS	L1009186-1						
Mercury (Hg)-Total			109				70-130	



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
	Water							
Batch	R2198344							
WG1289697-4 MS		L1009186-1						
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
WG1289697-6 MS		L1010393-5						
Mercury (Hg)-Total			115		%		70-130	02-JUN-11
Mercury (Hg)-Total			115		%		70-130	02-JUN-11
MET-D-L-MS-WP								
	Water							
Batch	R2196767							
WG1288070-4 DUP		WG1288070-3						
Aluminum (Al)-Dissolved		0.0258	0.0252		mg/L	2.4	20	31-MAY-11
Antimony (Sb)-Dissolved		0.00321	0.00325		mg/L	1.3	20	31-MAY-11
Arsenic (As)-Dissolved		0.00459	0.00466		mg/L	1.5	20	31-MAY-11
Barium (Ba)-Dissolved		0.0268	0.0269		mg/L	0.38	20	31-MAY-11
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Boron (B)-Dissolved		0.029	0.029		mg/L	2.4	400	31-MAY-11
Cadmium (Cd)-Dissolved		0.00189	0.00187		mg/L	1.4	20	31-MAY-11
Calcium (Ca)-Dissolved		164	166		mg/L	1.7	20	31-MAY-11
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Chromium (Cr)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	31-MAY-11
Cobalt (Co)-Dissolved		0.00089	0.00089		mg/L	0.22	400	31-MAY-11
Iron (Fe)-Dissolved		0.16	0.16		mg/L	2.5	400	31-MAY-11
Lead (Pb)-Dissolved		0.00120	0.00120		mg/L	0.083	20	31-MAY-11
Lithium (Li)-Dissolved		0.0079	0.0078		mg/L	1.3	400	31-MAY-11
Magnesium (Mg)-Dissolved		10.8	10.7		mg/L	0.91	20	31-MAY-11
Manganese (Mn)-Dissolved		0.0595	0.0608		mg/L	2.3	20	31-MAY-11
Molybdenum (Mo)-Dissolved		0.00387	0.00371		mg/L	4.3	20	31-MAY-11
Nickel (Ni)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	31-MAY-11
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	31-MAY-11
Potassium (K)-Dissolved		6.11	6.16		mg/L	0.92	20	31-MAY-11
Rubidium (Rb)-Dissolved		0.00687	0.00665		mg/L	3.3	20	31-MAY-11
Selenium (Se)-Dissolved		0.0195	0.0198		mg/L	1.6	20	31-MAY-11
Silicon (Si)-Dissolved		0.995	1.02		mg/L	2.0	20	31-MAY-11
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11



Quality Control Report

Workorder: L1010336

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2196767							
WG1288070-4	DUP	WG1288070-3						
Sodium (Na)-Dissolved		30.2	30.7		mg/L	1.7	20	31-MAY-11
Strontium (Sr)-Dissolved		1.02	0.999		mg/L	1.9	20	31-MAY-11
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	31-MAY-11
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Titanium (Ti)-Dissolved		0.00152	0.00176		mg/L	14	20	31-MAY-11
Tungsten (W)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Vanadium (V)-Dissolved		0.00041	0.00037		mg/L	12	400	31-MAY-11
Zinc (Zn)-Dissolved		0.323	0.323		mg/L	0.10	20	31-MAY-11
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1288070-2	LCS							
Aluminum (Al)-Dissolved			105		%		80-120	01-JUN-11
Antimony (Sb)-Dissolved			112		%		80-120	01-JUN-11
Arsenic (As)-Dissolved			107		%		80-120	01-JUN-11
Barium (Ba)-Dissolved			112		%		80-120	01-JUN-11
Beryllium (Be)-Dissolved			113		%		80-120	01-JUN-11
Bismuth (Bi)-Dissolved			114		%		80-120	01-JUN-11
Boron (B)-Dissolved			115		%		80-120	01-JUN-11
Cadmium (Cd)-Dissolved			101		%		80-120	01-JUN-11
Calcium (Ca)-Dissolved			106		%		80-120	01-JUN-11
Cesium (Cs)-Dissolved			106		%		80-120	01-JUN-11
Chromium (Cr)-Dissolved			109		%		80-120	01-JUN-11
Cobalt (Co)-Dissolved			112		%		80-120	01-JUN-11
Iron (Fe)-Dissolved			101		%		80-120	01-JUN-11
Lead (Pb)-Dissolved			110		%		80-120	01-JUN-11
Lithium (Li)-Dissolved			106		%		80-120	01-JUN-11
Magnesium (Mg)-Dissolved			107		%		80-120	01-JUN-11
Manganese (Mn)-Dissolved			112		%		80-120	01-JUN-11
Molybdenum (Mo)-Dissolved			108		%		80-120	01-JUN-11
Nickel (Ni)-Dissolved			110		%		80-120	01-JUN-11
Phosphorus (P)-Dissolved			115		%		80-120	01-JUN-11



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Workorder: L1010336

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2196767							
WG1288070-2	LCS							
Potassium (K)-Dissolved			108		%		80-120	01-JUN-11
Rubidium (Rb)-Dissolved			111		%		80-120	01-JUN-11
Selenium (Se)-Dissolved			110		%		80-120	01-JUN-11
Silicon (Si)-Dissolved			112		%		80-120	01-JUN-11
Silver (Ag)-Dissolved			101		%		80-120	01-JUN-11
Sodium (Na)-Dissolved			112		%		80-120	01-JUN-11
Strontium (Sr)-Dissolved			105		%		80-120	01-JUN-11
Tellurium (Te)-Dissolved			101		%		80-120	01-JUN-11
Thallium (Tl)-Dissolved			115		%		80-120	01-JUN-11
Thorium (Th)-Dissolved			103		%		80-120	01-JUN-11
Tin (Sn)-Dissolved			101		%		80-120	01-JUN-11
Titanium (Ti)-Dissolved			108		%		80-120	01-JUN-11
Tungsten (W)-Dissolved			111		%		80-120	01-JUN-11
Uranium (U)-Dissolved			108		%		80-120	01-JUN-11
Vanadium (V)-Dissolved			112		%		80-120	01-JUN-11
Zinc (Zn)-Dissolved			106		%		80-120	01-JUN-11
Zirconium (Zr)-Dissolved			109		%		80-120	01-JUN-11
WG1288070-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.02	31-MAY-11
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Arsenic (As)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Boron (B)-Dissolved			<0.010		mg/L		0.03	31-MAY-11
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.0002	31-MAY-11
Calcium (Ca)-Dissolved			<0.050		mg/L		0.2	31-MAY-11
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	31-MAY-11
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	31-MAY-11
Lead (Pb)-Dissolved			<0.000090		mg/L		0.001	31-MAY-11
Lithium (Li)-Dissolved			<0.0020		mg/L		0.01	31-MAY-11
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.05	31-MAY-11



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Workorder: L1010336

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch R2196767								
WG1288070-1 MB								
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.001	31-MAY-11
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.002	31-MAY-11
Phosphorus (P)-Dissolved			<0.10		mg/L		0.5	31-MAY-11
Potassium (K)-Dissolved			<0.020		mg/L		0.1	31-MAY-11
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Selenium (Se)-Dissolved			<0.0010		mg/L		0.005	31-MAY-11
Silicon (Si)-Dissolved			<0.050		mg/L		0.3	31-MAY-11
Silver (Ag)-Dissolved			<0.00010		mg/L		0.001	31-MAY-11
Sodium (Na)-Dissolved			<0.020		mg/L		0.05	31-MAY-11
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.005	31-MAY-11
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	31-MAY-11
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0006	31-MAY-11
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Tungsten (W)-Dissolved			<0.00020		mg/L		0.002	31-MAY-11
Uranium (U)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Vanadium (V)-Dissolved			<0.00020		mg/L		0.002	31-MAY-11
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.02	31-MAY-11
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.001	31-MAY-11
MET-T-L-MS-WP		Water						
Batch R2196871								
WG1287363-4 DUP								
		WG1287363-3						
Aluminum (Al)-Total		0.0791	0.0862		mg/L	8.6	20	31-MAY-11
Antimony (Sb)-Total		0.00360	0.00381		mg/L	5.6	20	31-MAY-11
Arsenic (As)-Total		0.00643	0.00659		mg/L	2.5	20	31-MAY-11
Barium (Ba)-Total		0.0282	0.0293		mg/L	4.0	20	31-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Boron (B)-Total		0.027	0.028		mg/L	4.3	400	31-MAY-11
Cadmium (Cd)-Total		0.00296	0.00307		mg/L	3.6	20	31-MAY-11
Calcium (Ca)-Total		165	175		mg/L	6.2	20	31-MAY-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2196871							
WG1287363-4	DUP	WG1287363-3						
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	31-MAY-11
Cobalt (Co)-Total		0.00125	0.00126		mg/L	1.1	20	31-MAY-11
Copper (Cu)-Total		0.0464	0.0474		mg/L	2.1	20	31-MAY-11
Iron (Fe)-Total		0.50	0.51		mg/L	1.8	20	31-MAY-11
Lead (Pb)-Total		0.00281	0.00288		mg/L	2.6	20	31-MAY-11
Lithium (Li)-Total		0.0097	0.0099		mg/L	2.8	400	31-MAY-11
Magnesium (Mg)-Total		10.5	10.7		mg/L	2.0	20	31-MAY-11
Manganese (Mn)-Total		0.0765	0.0769		mg/L	0.44	20	31-MAY-11
Molybdenum (Mo)-Total		0.00397	0.00407		mg/L	2.4	20	31-MAY-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	31-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	31-MAY-11
Potassium (K)-Total		6.63	6.74		mg/L	1.6	20	31-MAY-11
Rubidium (Rb)-Total		0.00732	0.00748		mg/L	2.2	20	31-MAY-11
Selenium (Se)-Total		0.0176	0.0175		mg/L	0.50	20	31-MAY-11
Silicon (Si)-Total		1.28	1.47		mg/L	14	20	31-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Sodium (Na)-Total		32.5	33.7		mg/L	3.5	20	31-MAY-11
Strontium (Sr)-Total		0.958	0.988		mg/L	3.0	20	31-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	31-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Titanium (Ti)-Total		0.00619	0.00629		mg/L	1.5	20	31-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	31-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Vanadium (V)-Total		0.00045	0.00043		mg/L	4.3	400	31-MAY-11
Zinc (Zn)-Total		0.393	0.402		mg/L	2.3	20	31-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1287363-6	DUP	WG1287363-5						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	31-MAY-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Arsenic (As)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11



Quality Control Report

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Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2196871							
WG1287363-6	DUP	WG1287363-5						
Barium (Ba)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	31-MAY-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	31-MAY-11
Calcium (Ca)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	31-MAY-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	31-MAY-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Copper (Cu)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Iron (Fe)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	31-MAY-11
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	400	31-MAY-11
Lithium (Li)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	31-MAY-11
Magnesium (Mg)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	31-MAY-11
Manganese (Mn)-Total		<0.00030	<0.00030	RPD-NA	mg/L	N/A	400	31-MAY-11
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	31-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	31-MAY-11
Potassium (K)-Total		<0.020	<0.020	RPD-NA	mg/L	N/A	400	31-MAY-11
Rubidium (Rb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	31-MAY-11
Silicon (Si)-Total		<0.050	<0.050	RPD-NA	mg/L	N/A	400	31-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Sodium (Na)-Total		<0.030	<0.030	RPD-NA	mg/L	N/A	400	31-MAY-11
Strontium (Sr)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	31-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Titanium (Ti)-Total		0.00039	0.00036		mg/L	6.7	400	31-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	31-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Vanadium (V)-Total		<0.00020	<0.00020		mg/L			31-MAY-11



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Workorder: L1010336

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2196871							
WG1287363-6	DUP	WG1287363-5						
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	31-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1287363-2	LCS							
Aluminum (Al)-Total			107		%		80-120	31-MAY-11
Antimony (Sb)-Total			104		%		80-120	31-MAY-11
Arsenic (As)-Total			106		%		80-120	31-MAY-11
Barium (Ba)-Total			108		%		80-120	31-MAY-11
Beryllium (Be)-Total			106		%		80-120	31-MAY-11
Bismuth (Bi)-Total			103		%		80-120	31-MAY-11
Boron (B)-Total			104		%		80-120	31-MAY-11
Cadmium (Cd)-Total			109		%		80-120	31-MAY-11
Calcium (Ca)-Total			105		%		80-120	31-MAY-11
Cesium (Cs)-Total			109		%		80-120	31-MAY-11
Chromium (Cr)-Total			107		%		80-120	31-MAY-11
Cobalt (Co)-Total			113		%		80-120	31-MAY-11
Copper (Cu)-Total			106		%		80-120	31-MAY-11
Iron (Fe)-Total			108		%		80-120	31-MAY-11
Lead (Pb)-Total			101		%		80-120	31-MAY-11
Lithium (Li)-Total			107		%		80-120	31-MAY-11
Magnesium (Mg)-Total			106		%		80-120	31-MAY-11
Manganese (Mn)-Total			111		%		80-120	31-MAY-11
Molybdenum (Mo)-Total			110		%		80-120	31-MAY-11
Nickel (Ni)-Total			105		%		80-120	31-MAY-11
Phosphorus (P)-Total			112		%		80-120	31-MAY-11
Potassium (K)-Total			107		%		80-120	31-MAY-11
Rubidium (Rb)-Total			109		%		80-120	31-MAY-11
Selenium (Se)-Total			107		%		80-120	31-MAY-11
Silicon (Si)-Total			114		%		80-120	31-MAY-11
Silver (Ag)-Total			105		%		80-120	31-MAY-11
Sodium (Na)-Total			108		%		80-120	31-MAY-11
Strontium (Sr)-Total			108		%		80-120	31-MAY-11
Tellurium (Te)-Total			110		%		80-120	31-MAY-11
Thallium (Tl)-Total			100				80-120	



Quality Control Report

Workorder: L1010336

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2196871							
WG1287363-2	LCS							
Thallium (Tl)-Total			100		%		80-120	31-MAY-11
Thorium (Th)-Total			108		%		70-130	31-MAY-11
Tin (Sn)-Total			108		%		80-120	31-MAY-11
Titanium (Ti)-Total			107		%		80-120	31-MAY-11
Tungsten (W)-Total			104		%		80-120	31-MAY-11
Uranium (U)-Total			114		%		80-120	31-MAY-11
Vanadium (V)-Total			108		%		80-120	31-MAY-11
Zinc (Zn)-Total			106		%		80-120	31-MAY-11
Zirconium (Zr)-Total			108		%		80-120	31-MAY-11
WG1287363-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.02	31-MAY-11
Antimony (Sb)-Total			<0.00020		mg/L		0.001	31-MAY-11
Arsenic (As)-Total			<0.00020		mg/L		0.001	31-MAY-11
Barium (Ba)-Total			<0.00020		mg/L		0.0005	31-MAY-11
Beryllium (Be)-Total			<0.00020		mg/L		0.001	31-MAY-11
Bismuth (Bi)-Total			<0.00020		mg/L		0.0005	31-MAY-11
Boron (B)-Total			<0.010		mg/L		0.03	31-MAY-11
Cadmium (Cd)-Total			<0.000010		mg/L		0.0002	31-MAY-11
Calcium (Ca)-Total			<0.10		mg/L		0.2	31-MAY-11
Cesium (Cs)-Total			<0.00010		mg/L		0.0005	31-MAY-11
Chromium (Cr)-Total			<0.0010		mg/L		0.002	31-MAY-11
Cobalt (Co)-Total			<0.00020		mg/L		0.0005	31-MAY-11
Copper (Cu)-Total			<0.00020		mg/L		0.002	31-MAY-11
Iron (Fe)-Total			<0.10		mg/L		0.1	31-MAY-11
Lead (Pb)-Total			<0.000090		mg/L		0.001	31-MAY-11
Lithium (Li)-Total			<0.0020		mg/L		0.002	31-MAY-11
Magnesium (Mg)-Total			<0.010		mg/L		0.05	31-MAY-11
Manganese (Mn)-Total			<0.00030		mg/L		0.001	31-MAY-11
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0005	31-MAY-11
Nickel (Ni)-Total			<0.0020		mg/L		0.002	31-MAY-11
Phosphorus (P)-Total			<0.20		mg/L		0.5	31-MAY-11
Potassium (K)-Total			<0.020		mg/L		0.1	31-MAY-11
Rubidium (Rb)-Total			<0.00020		mg/L		0.0005	31-MAY-11
Selenium (Se)-Total			<0.0010		mg/L		0.005	31-MAY-11



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch R2196871								
WG1287363-1 MB								
Silicon (Si)-Total			<0.050		mg/L		0.3	31-MAY-11
Silver (Ag)-Total			<0.00010		mg/L		0.001	31-MAY-11
Sodium (Na)-Total			<0.030		mg/L		0.05	31-MAY-11
Strontium (Sr)-Total			<0.00010		mg/L		0.0005	31-MAY-11
Tellurium (Te)-Total			<0.00020		mg/L		0.001	31-MAY-11
Thallium (Tl)-Total			<0.00010		mg/L		0.005	31-MAY-11
Thorium (Th)-Total			<0.00010		mg/L		0.0001	31-MAY-11
Tin (Sn)-Total			<0.00020		mg/L		0.0006	31-MAY-11
Titanium (Ti)-Total			<0.00020		mg/L		0.001	31-MAY-11
Tungsten (W)-Total			<0.0010		mg/L		0.002	31-MAY-11
Uranium (U)-Total			<0.00010		mg/L		0.0005	31-MAY-11
Vanadium (V)-Total			<0.00020		mg/L		0.002	31-MAY-11
Zinc (Zn)-Total			<0.0050		mg/L		0.02	31-MAY-11
Zirconium (Zr)-Total			<0.00040		mg/L		0.001	31-MAY-11
N-TOTKJ-WP		Water						
Batch R2196965								
WG1288329-1 CVS								
Total Kjeldahl Nitrogen			95		%		90-110	01-JUN-11
WG1287348-4 DUP		L1010124-1						
Total Kjeldahl Nitrogen		0.39	0.34		mg/L	13	20	01-JUN-11
WG1287348-7 DUP		L1010393-1						
Total Kjeldahl Nitrogen		0.88	0.86		mg/L	2.2	20	01-JUN-11
WG1287348-2 LCS								
Total Kjeldahl Nitrogen			94		%		75-125	01-JUN-11
WG1287348-1 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	01-JUN-11
WG1287348-5 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	01-JUN-11
WG1287348-3 MS		L1010124-1						
Total Kjeldahl Nitrogen			86		%		70-130	01-JUN-11
WG1287348-6 MS		L1010393-1						
Total Kjeldahl Nitrogen			96		%		70-130	01-JUN-11
NH3-COL-WP		Water						



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-COL-WP		Water						
Batch	R2200308							
WG1291885-3	DUP	L1011705-3						
Ammonia as N		0.433	0.437		mg/L	0.75	20	07-JUN-11
WG1291885-5	DUP	L1010336-3						
Ammonia as N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	07-JUN-11
WG1291885-2	LCS							
Ammonia as N			99		%		85-115	07-JUN-11
WG1291885-1	MB							
Ammonia as N			<0.050		mg/L		0.05	07-JUN-11
WG1291885-4	MS	L1009861-4						
Ammonia as N			101		%		75-125	07-JUN-11
WG1291885-6	MS	L1010336-3						
Ammonia as N			115		%		75-125	07-JUN-11
NO2-IC-WP		Water						
Batch	R2196510							
WG1287662-3	DUP	L1009090-1						
Nitrite-N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	30-MAY-11
WG1287662-2	LCS							
Nitrite-N			100		%		85-115	30-MAY-11
WG1287662-1	MB							
Nitrite-N			<0.050		mg/L		0.05	30-MAY-11
WG1287662-4	MS	L1009090-1						
Nitrite-N			100		%		75-125	30-MAY-11
NO3-IC-WP		Water						
Batch	R2196510							
WG1287662-3	DUP	L1009090-1						
Nitrate-N		4.33	4.33		mg/L	0.085	20	30-MAY-11
WG1287662-2	LCS							
Nitrate-N			99		%		85-115	30-MAY-11
WG1287662-1	MB							
Nitrate-N			<0.050		mg/L		0.05	30-MAY-11
WG1287662-4	MS	L1009090-1						
Nitrate-N			N/A	MS-B	%		-	30-MAY-11
P-T-COL-WP		Water						
Batch	R2196815							
WG1287084-3	DUP	L1010393-4						
Phosphorus (P)-Total		0.017	0.013	J	mg/L	0.003	0.02	31-MAY-11
WG1287084-4	DUP	L1010603-1						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-T-COL-WP		Water						
Batch R2196815								
WG1287084-4	DUP	L1010603-1						
Phosphorus (P)-Total		12.3	12.3		mg/L	0.0	20	31-MAY-11
WG1287084-2	LCS							
Phosphorus (P)-Total			94		%		80-120	31-MAY-11
WG1287084-1	MB							
Phosphorus (P)-Total			<0.010		mg/L		0.01	31-MAY-11
WG1287084-5	MS	L1010230-2						
Phosphorus (P)-Total			100		%		70-130	31-MAY-11
PH-WP		Water						
Batch R2196175								
WG1287385-4	DUP	L1010352-1						
pH		7.61	7.68	J	pH units	0.07	0.2	30-MAY-11
WG1287385-5	DUP	L1010399-1						
pH		7.95	7.78	J	pH units	0.16	0.2	30-MAY-11
WG1287385-6	DUP	L1010336-1						
pH		7.33	7.34	J	pH units	0.01	0.2	30-MAY-11
WG1287385-2	LCS							
pH			7.38		pH units		7.3-7.5	30-MAY-11
SIO2-L-COL-WP		Water						
Batch R2200809								
WG1292266-5	DUP	L1012431-2						
Silica, Reactive (as SiO2)		6.06	6.21		mg/L	2.6	20	08-JUN-11
WG1292266-6	DUP	L1010371-3						
Silica, Reactive (as SiO2)		8.12	8.27		mg/L	1.8	20	08-JUN-11
WG1292266-2	LCS							
Silica, Reactive (as SiO2)			99		%		85-115	08-JUN-11
WG1292266-1	MB							
Silica, Reactive (as SiO2)			<0.0050		mg/L		0.005	08-JUN-11
WG1292266-3	MS	L1008007-4						
Silica, Reactive (as SiO2)			97		%		75-125	08-JUN-11
WG1292266-4	MS	L1010336-3						
Silica, Reactive (as SiO2)			97		%		75-125	08-JUN-11
Batch R2202013								
WG1293531-5	DUP	L1010336-2						
Silica, Reactive (as SiO2)		5.20	5.03		mg/L	3.5	20	10-JUN-11
WG1293531-6	DUP	L1011306-1						
Silica, Reactive (as SiO2)		0.185	0.185		mg/L	0.11	20	10-JUN-11
WG1293531-2	LCS							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SIO2-L-COL-WP		Water						
Batch	R2202013							
WG1293531-2	LCS							
Silica, Reactive (as SiO2)			107		%		85-115	10-JUN-11
WG1293531-1	MB							
Silica, Reactive (as SiO2)			<0.0050		mg/L		0.005	10-JUN-11
WG1293531-3	MS	L1011291-1						
Silica, Reactive (as SiO2)			122		%		75-125	10-JUN-11
WG1293531-4	MS	L1012522-3						
Silica, Reactive (as SiO2)			112		%		75-125	10-JUN-11
SO4-IC-WP		Water						
Batch	R2196510							
WG1287662-3	DUP	L1009090-1						
Sulfate		119	119		mg/L	0.15	20	30-MAY-11
WG1287662-2	LCS							
Sulfate			100		%		85-115	30-MAY-11
WG1287662-1	MB							
Sulfate			<0.50		mg/L		0.5	30-MAY-11
WG1287662-4	MS	L1009090-1						
Sulfate			N/A	MS-B	%		-	30-MAY-11
SOLIDS-TDS-WP		Water						
Batch	R2196836							
WG1287243-2	CVS							
Total Dissolved Solids			101		%		85-115	31-MAY-11
WG1287243-4	DUP	L1010017-2						
Total Dissolved Solids		226	200		mg/L	12	20	31-MAY-11
WG1287243-5	DUP	L1010336-3						
Total Dissolved Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1287243-7	DUP	L1010604-1						
Total Dissolved Solids		1290	1420		mg/L	9.6	20	31-MAY-11
WG1287243-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	31-MAY-11
SOLIDS-TOTSUS-WP		Water						
Batch	R2196836							
WG1287243-2	CVS							
Total Suspended Solids			96		%		85-115	31-MAY-11
WG1287243-4	DUP	L1010017-2						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1287243-5	DUP	L1010336-3						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2196836							
WG1287243-5	DUP	L1010336-3						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1287243-6	DUP	L1010351-4						
Total Suspended Solids		26.0	29.0		mg/L	11	20	31-MAY-11
WG1287243-7	DUP	L1010604-1						
Total Suspended Solids		440	450		mg/L	2.2	20	31-MAY-11
WG1287243-1	MB							
Total Suspended Solids			<5.0		mg/L		5	31-MAY-11
TURBIDITY-WP								
	Water							
Batch	R2196236							
WG1287463-3	DUP	L1010400-1						
Turbidity		1.15	1.22		NTU	5.9	15	30-MAY-11
WG1287463-2	LCS							
Turbidity			101		%		85-115	30-MAY-11
WG1287463-1	MB							
Turbidity			<0.10		NTU		0.1	30-MAY-11

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Turbidity							
	1	28-MAY-11	30-MAY-11 13:07	48	49	hours	EHTL
	2	28-MAY-11	30-MAY-11 13:07	48	49	hours	EHTL
	3	28-MAY-11	30-MAY-11 13:07	48	49	hours	EHTL
pH							
	1	28-MAY-11	30-MAY-11 12:01	0.25	48	hours	EHTR-FM
	2	28-MAY-11	30-MAY-11 12:01	0.25	48	hours	EHTR-FM
	3	28-MAY-11	30-MAY-11 12:01	0.25	48	hours	EHTR-FM
Anions and Nutrients							
Bromide							
	1	28-MAY-11	30-MAY-11 16:26	48	52	hours	EHTL
	2	28-MAY-11	30-MAY-11 16:26	48	52	hours	EHTL
	3	28-MAY-11	30-MAY-11 16:26	48	52	hours	EHTL
Nitrate as N							
	1	28-MAY-11	30-MAY-11 16:26	48	52	hours	EHTL
	2	28-MAY-11	30-MAY-11 16:26	48	52	hours	EHTL
	3	28-MAY-11	30-MAY-11 16:26	48	52	hours	EHTL
Nitrite as N							
	1	28-MAY-11	30-MAY-11 16:26	48	52	hours	EHTL
	2	28-MAY-11	30-MAY-11 16:26	48	52	hours	EHTL
	3	28-MAY-11	30-MAY-11 16:26	48	52	hours	EHTL
Phosphorus, Total							
	1	28-MAY-11	30-MAY-11 17:24	48	54	hours	EHTL
	2	28-MAY-11	30-MAY-11 17:24	48	54	hours	EHTL
	3	28-MAY-11	30-MAY-11 17:24	48	54	hours	EHTL
Aggregate Organics							
Carbonaceous BOD							
	1	28-MAY-11	30-MAY-11 13:53	48	50	hours	EHTL
	2	28-MAY-11	30-MAY-11 13:53	48	50	hours	EHTL
	3	28-MAY-11	30-MAY-11 13:53	48	50	hours	EHTL

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
 EHTR: Exceeded ALS recommended hold time prior to sample receipt.
 EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
 EHT: Exceeded ALS recommended hold time prior to analysis.
 Rec. HT: ALS recommended hold time (see units).

Notes*:
 Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
 Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1010336 were received on 30-MAY-11 08:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L1010336

Report To			Report Format / Distribution				Service Requested (Rush for routine analysis subject to availability)									
Company: AECOM -W172			<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other				<input checked="" type="radio"/> Regular (Standard Turnaround Times - Business Days)									
Contact: Cliff Samoiloff			<input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Digital <input type="checkbox"/> Fax				<input type="radio"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT									
Address: 99 Commerce Dr			Email 1: cliff.samoiloff@aecom.com				<input type="radio"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT									
			Email 2: shawna.kjartanson@aecom.com				<input type="radio"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT									
Phone: _____ Fax: _____			Email 3: _____				Analysis Request									
Invoice To Same as Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Client / Project Information				Please indicate below Filtered, Preserved or both (F, P, F/P)									
Hardcopy of Invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No			Job #: 60213483-200													
Company: _____			PO / AFE: _____													
Contact: _____			LSD: _____													
Address: _____																
Phone: _____ Fax: _____			Quote #: Q24534													
Lab Work Order # (lab use only)			ALS Contact:		Sampler:											
Sample #	Sample Identification (This description will appear on the report)		Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Chlorophylla / Pheophytin	Acidity, Colour, Turbidity	Anions, Br, silica, ph, ec, Alk	NH3, TKN, PT	CBOD	Solids (TSS, TDS)	Metals & HG - Total	Metals & Hg - Dissolved	TOC, DOC	Number of Containers	
	NTL-01		28 MAY 11		water	X	X	X	X	X	X	X	X	X	6	
	GSL-01		28 MAY 11		"	X	X	X	X	X	X	X	X	X	6	
	TRB-08		"		"	X	X	X	X	X	X	X	X	X	6	
Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab.																
Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.																
SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)			SHIPMENT VERIFICATION (lab use only)										
Released by: <i>[Signature]</i>	Date (dd-mmm-yy): 28 MAY 11	Time (hh:mm): 1643	Received by: <i>[Signature]</i>	Date: MAY 30	Time: 08:31	Temperature: 11.6 °C	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF						



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 30-MAY-11
Report Date: 14-JUN-11 13:00 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1010393
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-200
Legal Site Desc:
C of C Numbers:

Paul Nicolas
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010393-1 THL-01							
Sampled By: CLIENT on 27-MAY-11 @ 16:00							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		31-MAY-11	R2197078
Fluoride							
Fluoride	<0.10		0.10	mg/L		31-MAY-11	R2197078
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		31-MAY-11	R2197078
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		31-MAY-11	R2197078
Sulfate							
Sulfate	<0.50		0.50	mg/L		31-MAY-11	R2197078
Miscellaneous Parameters							
Acidity (as CaCO3)	1.8		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		07-JUN-11	R2200308
Bromide (Br)	<0.10		0.10	mg/L		31-MAY-11	R2197078
BOD Carbonaceous	1.3		1.0	mg/L	30-MAY-11	04-JUN-11	R2198764
Colour, True	49.4		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	18.7		1.0	mg/L		09-JUN-11	R2201700
Hardness (as CaCO3)	37.4		0.20	mg/L		01-JUN-11	
Hardness (as CaCO3)	39.6		0.30	mg/L		03-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		30-MAY-11	
Phosphorus (P)-Total	0.016		0.010	mg/L		31-MAY-11	R2196815
Silica, Reactive (as SiO2)	0.815		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	40.0		5.0	mg/L		01-JUN-11	R2197465
Total Kjeldahl Nitrogen	0.88		0.20	mg/L	30-MAY-11	01-JUN-11	R2196965
Total Organic Carbon	19.4		1.0	mg/L		09-JUN-11	R2201700
Total Suspended Solids	<5.0		5.0	mg/L		01-JUN-11	R2197465
Turbidity	1.33		0.10	NTU		30-MAY-11	R2196236
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0244		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Arsenic (As)-Total	0.00155		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Barium (Ba)-Total	0.00728		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Boron (B)-Total	<0.010		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	31-MAY-11	31-MAY-11	R2196871
Calcium (Ca)-Total	10.6		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Copper (Cu)-Total	0.00026		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Iron (Fe)-Total	0.58		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Lead (Pb)-Total	<0.000090		0.000090	mg/L	31-MAY-11	31-MAY-11	R2196871
Lithium (Li)-Total	<0.0020		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871
Magnesium (Mg)-Total	3.20		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Manganese (Mn)-Total	0.0237		0.00030	mg/L	31-MAY-11	31-MAY-11	R2196871
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010393-1 THL-01							
Sampled By: CLIENT on 27-MAY-11 @ 16:00							
Matrix: WATER							
Total Metals by ICP-MS							
Phosphorus (P)-Total	<0.20		0.20	mg/L	31-MAY-11	31-MAY-11	R2196871
Potassium (K)-Total	0.603		0.020	mg/L	31-MAY-11	31-MAY-11	R2196871
Rubidium (Rb)-Total	0.00093		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Selenium (Se)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Silicon (Si)-Total	0.461		0.050	mg/L	31-MAY-11	31-MAY-11	R2196871
Silver (Ag)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Sodium (Na)-Total	1.17		0.030	mg/L	31-MAY-11	31-MAY-11	R2196871
Strontium (Sr)-Total	0.0199		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Thorium (Th)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tin (Sn)-Total	0.00034		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Titanium (Ti)-Total	0.00026		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Tungsten (W)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Uranium (U)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Vanadium (V)-Total	0.00021		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	31-MAY-11	31-MAY-11	R2196871
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0138		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Arsenic (As)-Dissolved	0.00136		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Barium (Ba)-Dissolved	0.00614		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Boron (B)-Dissolved	<0.010		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	30-MAY-11	31-MAY-11	R2196767
Calcium (Ca)-Dissolved	10.1		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	03-JUN-11	R2198253
Iron (Fe)-Dissolved	0.29		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	30-MAY-11	31-MAY-11	R2196767
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Magnesium (Mg)-Dissolved	2.95		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Manganese (Mn)-Dissolved	0.00132		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Potassium (K)-Dissolved	0.583		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Rubidium (Rb)-Dissolved	0.00085		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Silicon (Si)-Dissolved	0.428		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Sodium (Na)-Dissolved	0.935		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Strontium (Sr)-Dissolved	0.0182		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010393-1 THL-01 Sampled By: CLIENT on 27-MAY-11 @ 16:00 Matrix: WATER							
Dissolved Metals by ICP-MS							
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Vanadium (V)-Dissolved	0.00033		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	30-MAY-11	31-MAY-11	R2196767
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	2.88		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	1.23		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	35.0		1.0	mg/L		30-MAY-11	R2196175
Bicarbonate (HCO3)	42.7		2.0	mg/L		30-MAY-11	R2196175
Carbonate (CO3)	<0.60		0.60	mg/L		30-MAY-11	R2196175
Hydroxide (OH)	<0.40		0.40	mg/L		30-MAY-11	R2196175
Conductivity							
Conductivity	73.1		0.40	umhos/cm		30-MAY-11	R2196175
pH							
pH	7.87		0.10	pH units		30-MAY-11	R2196175
L1010393-2 THL-02 Sampled By: CLIENT on 27-MAY-11 @ 15:18 Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		31-MAY-11	R2197078
Fluoride							
Fluoride	<0.10		0.10	mg/L		31-MAY-11	R2197078
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		31-MAY-11	R2197078
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		31-MAY-11	R2197078
Sulfate							
Sulfate	<0.50		0.50	mg/L		31-MAY-11	R2197078
Miscellaneous Parameters							
Acidity (as CaCO3)	1.9		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		07-JUN-11	R2200308
Bromide (Br)	<0.10		0.10	mg/L		31-MAY-11	R2197078
BOD Carbonaceous	<1.0		1.0	mg/L	30-MAY-11	04-JUN-11	R2198764
Colour, True	48.2		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	18.9		1.0	mg/L		09-JUN-11	R2201700
Hardness (as CaCO3)	36.5		0.20	mg/L		01-JUN-11	
Hardness (as CaCO3)	39.9		0.30	mg/L		03-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		30-MAY-11	
Phosphorus (P)-Total	0.017		0.010	mg/L		31-MAY-11	R2196815
Silica, Reactive (as SiO2)	0.786		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	42.0		5.0	mg/L		01-JUN-11	R2197465
Total Kjeldahl Nitrogen	0.94		0.20	mg/L	30-MAY-11	01-JUN-11	R2196965
Total Organic Carbon	18.8		1.0	mg/L		09-JUN-11	R2201700

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010393-2 THL-02							
Sampled By: CLIENT on 27-MAY-11 @ 15:18							
Matrix: WATER							
Total Suspended Solids	<5.0		5.0	mg/L		01-JUN-11	R2197465
Turbidity	1.27		0.10	NTU		30-MAY-11	R2196236
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0210		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Arsenic (As)-Total	0.00155		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Barium (Ba)-Total	0.00750		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Boron (B)-Total	<0.010		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	31-MAY-11	31-MAY-11	R2196871
Calcium (Ca)-Total	10.7		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Copper (Cu)-Total	0.00025		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Iron (Fe)-Total	0.65		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Lead (Pb)-Total	<0.000090		0.000090	mg/L	31-MAY-11	31-MAY-11	R2196871
Lithium (Li)-Total	<0.0020		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871
Magnesium (Mg)-Total	3.21		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Manganese (Mn)-Total	0.0309		0.00030	mg/L	31-MAY-11	31-MAY-11	R2196871
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871
Phosphorus (P)-Total	<0.20		0.20	mg/L	31-MAY-11	31-MAY-11	R2196871
Potassium (K)-Total	0.591		0.020	mg/L	31-MAY-11	31-MAY-11	R2196871
Rubidium (Rb)-Total	0.00093		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Selenium (Se)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Silicon (Si)-Total	0.447		0.050	mg/L	31-MAY-11	31-MAY-11	R2196871
Silver (Ag)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Sodium (Na)-Total	1.18		0.030	mg/L	31-MAY-11	31-MAY-11	R2196871
Strontium (Sr)-Total	0.0198		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Thorium (Th)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tin (Sn)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Titanium (Ti)-Total	0.00022		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Tungsten (W)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Uranium (U)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Vanadium (V)-Total	0.00022		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	31-MAY-11	31-MAY-11	R2196871
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0109		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Arsenic (As)-Dissolved	0.00133		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Barium (Ba)-Dissolved	0.00623		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Boron (B)-Dissolved	<0.010		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	30-MAY-11	31-MAY-11	R2196767
Calcium (Ca)-Dissolved	9.80		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010393-2 THL-02							
Sampled By: CLIENT on 27-MAY-11 @ 15:18							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	03-JUN-11	R2198253
Iron (Fe)-Dissolved	0.32		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	30-MAY-11	31-MAY-11	R2196767
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Magnesium (Mg)-Dissolved	2.93		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Manganese (Mn)-Dissolved	0.00143		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Potassium (K)-Dissolved	0.557		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Rubidium (Rb)-Dissolved	0.00083		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Silicon (Si)-Dissolved	0.388		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Sodium (Na)-Dissolved	0.937		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Strontium (Sr)-Dissolved	0.0180		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Vanadium (V)-Dissolved	0.00036		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zirconium (Zr)-Dissolved	0.00051		0.00040	mg/L	30-MAY-11	31-MAY-11	R2196767
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	2.94		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	1.24		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	34.8		1.0	mg/L		30-MAY-11	R2196175
Bicarbonate (HCO3)	42.4		2.0	mg/L		30-MAY-11	R2196175
Carbonate (CO3)	<0.60		0.60	mg/L		30-MAY-11	R2196175
Hydroxide (OH)	<0.40		0.40	mg/L		30-MAY-11	R2196175
Conductivity							
Conductivity	72.7		0.40	umhos/cm		30-MAY-11	R2196175
pH							
pH	7.79		0.10	pH units		30-MAY-11	R2196175
L1010393-3 THL-03							
Sampled By: CLIENT on 27-MAY-11 @ 14:45							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		31-MAY-11	R2197078
Fluoride							
Fluoride	<0.10		0.10	mg/L		31-MAY-11	R2197078
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		31-MAY-11	R2197078

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010393-3 THL-03							
Sampled By: CLIENT on 27-MAY-11 @ 14:45							
Matrix: WATER							
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		31-MAY-11	R2197078
Sulfate							
Sulfate	<0.50		0.50	mg/L		31-MAY-11	R2197078
Miscellaneous Parameters							
Acidity (as CaCO3)	1.6		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		07-JUN-11	R2200308
Bromide (Br)	<0.10		0.10	mg/L		31-MAY-11	R2197078
BOD Carbonaceous	1.5		1.0	mg/L	30-MAY-11	04-JUN-11	R2198764
Colour, True	49.0		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	19.0		1.0	mg/L		09-JUN-11	R2201700
Hardness (as CaCO3)	40.5		0.30	mg/L		03-JUN-11	
Hardness (as CaCO3)	36.8		0.20	mg/L		01-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		30-MAY-11	
Phosphorus (P)-Total	0.017		0.010	mg/L		31-MAY-11	R2196815
Silica, Reactive (as SiO2)	0.661		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	38.0		5.0	mg/L		01-JUN-11	R2197465
Total Kjeldahl Nitrogen	0.92		0.20	mg/L	30-MAY-11	01-JUN-11	R2196965
Total Organic Carbon	19.2		1.0	mg/L		09-JUN-11	R2201700
Total Suspended Solids	<5.0		5.0	mg/L		01-JUN-11	R2197465
Turbidity	1.76		0.10	NTU		30-MAY-11	R2196236
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0230		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Arsenic (As)-Total	0.00163		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Barium (Ba)-Total	0.00791		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Boron (B)-Total	<0.010		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cadmium (Cd)-Total	0.000010		0.000010	mg/L	31-MAY-11	31-MAY-11	R2196871
Calcium (Ca)-Total	10.9		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Copper (Cu)-Total	0.00024		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Iron (Fe)-Total	0.56		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Lead (Pb)-Total	0.000121		0.000090	mg/L	31-MAY-11	31-MAY-11	R2196871
Lithium (Li)-Total	0.0023		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871
Magnesium (Mg)-Total	3.24		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Manganese (Mn)-Total	0.0301		0.00030	mg/L	31-MAY-11	31-MAY-11	R2196871
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871
Phosphorus (P)-Total	<0.20		0.20	mg/L	31-MAY-11	31-MAY-11	R2196871
Potassium (K)-Total	0.616		0.020	mg/L	31-MAY-11	31-MAY-11	R2196871
Rubidium (Rb)-Total	0.00092		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Selenium (Se)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Silicon (Si)-Total	0.391		0.050	mg/L	31-MAY-11	31-MAY-11	R2196871
Silver (Ag)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Sodium (Na)-Total	1.19		0.030	mg/L	31-MAY-11	31-MAY-11	R2196871

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010393-3 THL-03							
Sampled By: CLIENT on 27-MAY-11 @ 14:45							
Matrix: WATER							
Total Metals by ICP-MS							
Strontium (Sr)-Total	0.0201		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Thorium (Th)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tin (Sn)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Titanium (Ti)-Total	0.00021		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Tungsten (W)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Uranium (U)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Vanadium (V)-Total	0.00026		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	31-MAY-11	31-MAY-11	R2196871
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0136		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Arsenic (As)-Dissolved	0.00141		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Barium (Ba)-Dissolved	0.00658		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Boron (B)-Dissolved	<0.010		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	30-MAY-11	31-MAY-11	R2196767
Calcium (Ca)-Dissolved	10.0		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	03-JUN-11	R2198253
Iron (Fe)-Dissolved	0.42		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	30-MAY-11	31-MAY-11	R2196767
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Magnesium (Mg)-Dissolved	2.88		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Manganese (Mn)-Dissolved	0.00177		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Potassium (K)-Dissolved	0.545		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Rubidium (Rb)-Dissolved	0.00084		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Silicon (Si)-Dissolved	0.328		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Sodium (Na)-Dissolved	0.932		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Strontium (Sr)-Dissolved	0.0182		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Vanadium (V)-Dissolved	0.00024		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	30-MAY-11	31-MAY-11	R2196767
Chlorophyll a, Pheophytin by fluorometry							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010393-3 THL-03							
Sampled By: CLIENT on 27-MAY-11 @ 14:45							
Matrix: WATER							
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	3.27		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	1.33		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	35.0		1.0	mg/L		30-MAY-11	R2196175
Bicarbonate (HCO3)	42.7		2.0	mg/L		30-MAY-11	R2196175
Carbonate (CO3)	<0.60		0.60	mg/L		30-MAY-11	R2196175
Hydroxide (OH)	<0.40		0.40	mg/L		30-MAY-11	R2196175
Conductivity							
Conductivity	73.1		0.40	umhos/cm		30-MAY-11	R2196175
pH							
pH	7.85		0.10	pH units		30-MAY-11	R2196175
L1010393-4 DUP-02							
Sampled By: CLIENT on 27-MAY-11 @ 15:19							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		31-MAY-11	R2197078
Fluoride							
Fluoride	<0.10		0.10	mg/L		31-MAY-11	R2197078
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		31-MAY-11	R2197078
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		31-MAY-11	R2197078
Sulfate							
Sulfate	<0.50		0.50	mg/L		31-MAY-11	R2197078
Miscellaneous Parameters							
Acidity (as CaCO3)	1.3		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		07-JUN-11	R2200308
Bromide (Br)	<0.10		0.10	mg/L		31-MAY-11	R2197078
BOD Carbonaceous	<1.0		1.0	mg/L	30-MAY-11	04-JUN-11	R2198764
Colour, True	50.6		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	19.3		1.0	mg/L		09-JUN-11	R2201700
Hardness (as CaCO3)	36.8		0.20	mg/L		01-JUN-11	
Hardness (as CaCO3)	40.0		0.30	mg/L		03-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		30-MAY-11	
Phosphorus (P)-Total	0.017		0.010	mg/L		31-MAY-11	R2196815
Silica, Reactive (as SiO2)	0.826		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	40.0		5.0	mg/L		01-JUN-11	R2197465
Total Kjeldahl Nitrogen	0.92		0.20	mg/L	30-MAY-11	01-JUN-11	R2196965
Total Organic Carbon	19.2		1.0	mg/L		09-JUN-11	R2201700
Total Suspended Solids	<5.0		5.0	mg/L		01-JUN-11	R2197465
Turbidity	1.29		0.10	NTU		30-MAY-11	R2196236
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0244		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Arsenic (As)-Total	0.00153		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Barium (Ba)-Total	0.00726		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010393-4 DUP-02							
Sampled By: CLIENT on 27-MAY-11 @ 15:19							
Matrix: WATER							
Total Metals by ICP-MS							
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Boron (B)-Total	<0.010		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	31-MAY-11	31-MAY-11	R2196871
Calcium (Ca)-Total	10.7		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Copper (Cu)-Total	0.00023		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Iron (Fe)-Total	0.58		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Lead (Pb)-Total	<0.000090		0.000090	mg/L	31-MAY-11	31-MAY-11	R2196871
Lithium (Li)-Total	0.0020		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871
Magnesium (Mg)-Total	3.21		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Manganese (Mn)-Total	0.0236		0.00030	mg/L	31-MAY-11	31-MAY-11	R2196871
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871
Phosphorus (P)-Total	<0.20		0.20	mg/L	31-MAY-11	31-MAY-11	R2196871
Potassium (K)-Total	0.603		0.020	mg/L	31-MAY-11	31-MAY-11	R2196871
Rubidium (Rb)-Total	0.00094		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Selenium (Se)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Silicon (Si)-Total	0.474		0.050	mg/L	31-MAY-11	31-MAY-11	R2196871
Silver (Ag)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Sodium (Na)-Total	1.17		0.030	mg/L	31-MAY-11	31-MAY-11	R2196871
Strontium (Sr)-Total	0.0198		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Thorium (Th)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tin (Sn)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Titanium (Ti)-Total	0.00026		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Tungsten (W)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Uranium (U)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Vanadium (V)-Total	0.00022		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	31-MAY-11	31-MAY-11	R2196871
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0143		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Arsenic (As)-Dissolved	0.00140		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Barium (Ba)-Dissolved	0.00607		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Boron (B)-Dissolved	<0.010		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	30-MAY-11	31-MAY-11	R2196767
Calcium (Ca)-Dissolved	9.79		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Copper (Cu)-Dissolved	0.00021		0.00020	mg/L	30-MAY-11	03-JUN-11	R2198253
Iron (Fe)-Dissolved	0.40		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	30-MAY-11	31-MAY-11	R2196767
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010393-4 DUP-02							
Sampled By: CLIENT on 27-MAY-11 @ 15:19							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Magnesium (Mg)-Dissolved	3.00		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Manganese (Mn)-Dissolved	0.00142		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Potassium (K)-Dissolved	0.565		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Rubidium (Rb)-Dissolved	0.00086		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Silicon (Si)-Dissolved	0.398		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Sodium (Na)-Dissolved	0.939		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Strontium (Sr)-Dissolved	0.0179		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Vanadium (V)-Dissolved	0.00036		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	30-MAY-11	31-MAY-11	R2196767
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	2.62		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	0.82		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	35.1		1.0	mg/L		30-MAY-11	R2196175
Bicarbonate (HCO3)	42.9		2.0	mg/L		30-MAY-11	R2196175
Carbonate (CO3)	<0.60		0.60	mg/L		30-MAY-11	R2196175
Hydroxide (OH)	<0.40		0.40	mg/L		30-MAY-11	R2196175
Conductivity							
Conductivity	73.2		0.40	umhos/cm		30-MAY-11	R2196175
pH							
pH	7.86		0.10	pH units		30-MAY-11	R2196175
L1010393-5 TRB-07							
Sampled By: CLIENT on 27-MAY-11 @ 16:00							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		31-MAY-11	R2197078
Fluoride							
Fluoride	<0.10		0.10	mg/L		31-MAY-11	R2197078
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		31-MAY-11	R2197078
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		31-MAY-11	R2197078
Sulfate							
Sulfate	<0.50		0.50	mg/L		31-MAY-11	R2197078
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		10-JUN-11	R2202438

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010393-5 TRB-07							
Sampled By: CLIENT on 27-MAY-11 @ 16:00							
Matrix: WATER							
Ammonia as N	<0.050		0.050	mg/L		07-JUN-11	R2200308
Bromide (Br)	<0.10		0.10	mg/L		31-MAY-11	R2197078
BOD Carbonaceous	<1.0		1.0	mg/L	30-MAY-11	04-JUN-11	R2198764
Colour, True	<5.0		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	<1.0		1.0	mg/L		09-JUN-11	R2201700
Hardness (as CaCO3)	<0.20		0.20	mg/L		01-JUN-11	
Hardness (as CaCO3)	<0.30		0.30	mg/L		01-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		30-MAY-11	
Phosphorus (P)-Total	<0.010		0.010	mg/L		31-MAY-11	R2196815
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		08-JUN-11	R2200809
Total Dissolved Solids	<5.0		5.0	mg/L		01-JUN-11	R2197465
Total Kjeldahl Nitrogen	0.30		0.20	mg/L	30-MAY-11	01-JUN-11	R2196965
Total Organic Carbon	<1.0		1.0	mg/L		09-JUN-11	R2201700
Total Suspended Solids	<5.0		5.0	mg/L		01-JUN-11	R2197465
Turbidity	0.14		0.10	NTU		30-MAY-11	R2196236
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Arsenic (As)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Barium (Ba)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Boron (B)-Total	<0.010		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	31-MAY-11	31-MAY-11	R2196871
Calcium (Ca)-Total	<0.10		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Copper (Cu)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Iron (Fe)-Total	<0.10		0.10	mg/L	31-MAY-11	31-MAY-11	R2196871
Lead (Pb)-Total	<0.000090		0.000090	mg/L	31-MAY-11	31-MAY-11	R2196871
Lithium (Li)-Total	<0.0020		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871
Magnesium (Mg)-Total	<0.010		0.010	mg/L	31-MAY-11	31-MAY-11	R2196871
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	31-MAY-11	31-MAY-11	R2196871
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	31-MAY-11	31-MAY-11	R2196871
Phosphorus (P)-Total	<0.20		0.20	mg/L	31-MAY-11	31-MAY-11	R2196871
Potassium (K)-Total	<0.020		0.020	mg/L	31-MAY-11	31-MAY-11	R2196871
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Selenium (Se)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Silicon (Si)-Total	<0.050		0.050	mg/L	31-MAY-11	31-MAY-11	R2196871
Silver (Ag)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Sodium (Na)-Total	<0.030		0.030	mg/L	31-MAY-11	31-MAY-11	R2196871
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Thorium (Th)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Tin (Sn)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010393-5 TRB-07							
Sampled By: CLIENT on 27-MAY-11 @ 16:00							
Matrix: WATER							
Total Metals by ICP-MS							
Tungsten (W)-Total	<0.0010		0.0010	mg/L	31-MAY-11	31-MAY-11	R2196871
Uranium (U)-Total	<0.00010		0.00010	mg/L	31-MAY-11	31-MAY-11	R2196871
Vanadium (V)-Total	<0.00020		0.00020	mg/L	31-MAY-11	31-MAY-11	R2196871
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	31-MAY-11	31-MAY-11	R2196871
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	31-MAY-11	31-MAY-11	R2196871
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Antimony (Sb)-Dissolved	0.00047		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Boron (B)-Dissolved	<0.010		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	30-MAY-11	31-MAY-11	R2196767
Calcium (Ca)-Dissolved	<0.050		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Copper (Cu)-Dissolved	0.00046		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	30-MAY-11	31-MAY-11	R2196767
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	30-MAY-11	31-MAY-11	R2196767
Manganese (Mn)-Dissolved	0.00023		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	30-MAY-11	31-MAY-11	R2196767
Potassium (K)-Dissolved	<0.020		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	30-MAY-11	31-MAY-11	R2196767
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	30-MAY-11	31-MAY-11	R2196767
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	30-MAY-11	31-MAY-11	R2196767
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	30-MAY-11	31-MAY-11	R2196767
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	30-MAY-11	31-MAY-11	R2196767
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	30-MAY-11	31-MAY-11	R2196767
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
Phaeophytin a	<0.10		0.10	ug/L	31-MAY-11	01-JUN-11	R2196839
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	1.8		1.0	mg/L		07-JUN-11	R2200310
Bicarbonate (HCO3)	2.2		2.0	mg/L		07-JUN-11	R2200310
Carbonate (CO3)	<0.60		0.60	mg/L		07-JUN-11	R2200310

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1010393-5 TRB-07 Sampled By: CLIENT on 27-MAY-11 @ 16:00 Matrix: WATER							
Alkalinity Hydroxide (OH)	<0.40		0.40	mg/L		07-JUN-11	R2200310
Conductivity Conductivity	0.76		0.40	umhos/cm		06-JUN-11	R2200319
pH pH	5.86		0.10	pH units		30-MAY-11	R2196175

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B
Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically.			
BR-IC-WP	Water	Bromide	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
CHL,PHEO-FLUORO-WP	Water	Chlorophyll a, Pheophytin by fluorometry	EPA 445.0
Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification.			
CL-IC-WP	Water	Chloride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR
This analysis is carried out using procedures adapted from APHA 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. Colour is pH dependent. Unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit.			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.			
EC-WP	Water	Conductivity	APHA 2510B
Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	HARDNESS CALCULATED
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
F-IC-WP	Water	Fluoride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
		Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
		Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
		Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.	
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
		Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.	
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-WP	Water	Nitrite as N	EPA 300.1 IC
NO3-IC-WP	Water	Nitrate as N	EPA 300.1 IC
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
		This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.	
PH-WP	Water	pH	APHA 4500H
		The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.	
SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2
		This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.	
SO4-IC-WP	Water	Sulfate	EPA 300.1 IC
		This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".	
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540C
		The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.	
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540D
		The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.	
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1010393

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP		Water						
Batch R2202438								
WG1294090-2	CVS							
Acidity (as CaCO3)			101		%		85-115	10-JUN-11
WG1294090-3	DUP	L1010047-1						
Acidity (as CaCO3)		2.2	2.2		mg/L	0.0	400	10-JUN-11
WG1294090-4	DUP	L1012148-11						
Acidity (as CaCO3)		2.0	1.9		mg/L	3.3	400	10-JUN-11
WG1294090-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	10-JUN-11
ALK-TOT-WP		Water						
Batch R2196175								
WG1287385-3	CVS							
Alkalinity, Total (as CaCO3)			100		%		85-115	30-MAY-11
WG1287385-5	DUP	L1010399-1						
Alkalinity, Total (as CaCO3)		346	345		mg/L	0.12	20	30-MAY-11
Bicarbonate (HCO3)		422	421		mg/L	0.12	25	30-MAY-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	30-MAY-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	30-MAY-11
Batch R2200310								
WG1291913-3	CVS							
Alkalinity, Total (as CaCO3)			101		%		85-115	07-JUN-11
WG1291913-5	CVS							
Alkalinity, Total (as CaCO3)			110		%		85-115	07-JUN-11
WG1291913-4	DUP	L1012148-14						
Alkalinity, Total (as CaCO3)		16.0	15.9		mg/L	0.18	20	07-JUN-11
Bicarbonate (HCO3)		19.5	19.4		mg/L	0.18	25	07-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	07-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	07-JUN-11
WG1291913-6	DUP	L1012148-3						
Alkalinity, Total (as CaCO3)		20.7	20.8		mg/L	0.14	20	07-JUN-11
Bicarbonate (HCO3)		25.3	25.3		mg/L	0.14	25	07-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	07-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	07-JUN-11

BR-IC-WP **Water**



Quality Control Report

Workorder: L1010393

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BR-IC-WP		Water						
Batch	R2197078							
WG1288401-2	LCS							
Bromide (Br)			102		%		85-115	31-MAY-11
WG1288401-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	31-MAY-11
C-DIS-ORG-WP		Water						
Batch	R2201700							
WG1293263-2	CVS							
Dissolved Organic Carbon			101		%		80-120	09-JUN-11
C-TOT-ORG-WP		Water						
Batch	R2201700							
WG1293263-2	CVS							
Total Organic Carbon			101		%		80-120	09-JUN-11
WG1293263-3	DUP	L1010393-1						
Total Organic Carbon		19.4	19.1		mg/L	1.2	20	09-JUN-11
WG1293263-1	MB							
Total Organic Carbon			<1.0		mg/L		1	09-JUN-11
CHL,PHEO-FLUORO-WP		Water						
Batch	R2196839							
WG1288191-1	CVS							
Chlorophyll a			103		%		65-135	01-JUN-11
WG1288191-2	CVS							
Chlorophyll a			120		%		65-135	01-JUN-11
WG1287097-2	DUP	L1009420-1						
Chlorophyll a		2.88	2.11		ug/L	31	35	01-JUN-11
Phaeophytin a		1.78	1.88		ug/L	5.5	35	01-JUN-11
WG1287097-1	MB							
Chlorophyll a			<0.10		ug/L		0.1	01-JUN-11
Phaeophytin a			<0.10		ug/L		0.1	01-JUN-11
CL-IC-WP		Water						
Batch	R2197078							
WG1288401-3	DUP	L1010352-1						
Chloride		4.85	4.84		mg/L	0.11	20	31-MAY-11
WG1288401-2	LCS							
Chloride			99		%		85-115	31-MAY-11
WG1288401-1	MB							
Chloride			<0.50		mg/L		0.5	31-MAY-11



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Workorder: L1010393

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-IC-WP								
	Water							
Batch	R2197078							
WG1288401-4	MS	L1010352-1						
Chloride			104		%		75-125	31-MAY-11
COLOUR-TRUE-WP								
	Water							
Batch	R2198910							
WG1290376-3	DUP	L1010400-1						
Colour, True		10.3	9.3		CU	10	400	03-JUN-11
WG1290376-4	DUP	L1011306-2						
Colour, True		94.2	96.5		CU	2.4	20	03-JUN-11
WG1290376-2	LCS							
Colour, True			98		%		85-115	03-JUN-11
WG1290376-1	MB							
Colour, True			<5.0		CU		5	03-JUN-11
CONSULT-BOD-CBOD-WP								
	Water							
Batch	R2198764							
WG1286867-3	DUP	L1010336-1						
BOD Carbonaceous		1.5	1.4		mg/L	7.1	400	04-JUN-11
WG1286867-2	IRM	61-GG						
BOD Carbonaceous			102		%		85-115	04-JUN-11
WG1286867-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	04-JUN-11
EC-WP								
	Water							
Batch	R2196175							
WG1287385-1	CVS							
Conductivity			99		%		90-110	30-MAY-11
WG1287385-4	DUP	L1010352-1						
Conductivity		800	800		umhos/cm	0.013	10	30-MAY-11
WG1287385-5	DUP	L1010399-1						
Conductivity		641	644		umhos/cm	0.49	10	30-MAY-11
WG1287385-6	DUP	L1010336-1						
Conductivity		46.5	46.6		umhos/cm	0.21	10	30-MAY-11
Batch	R2200319							
WG1291926-1	CVS							
Conductivity			100		%		90-110	06-JUN-11
WG1291926-2	DUP	L1011291-4						
Conductivity		1.20	1.19		umhos/cm	0.84	400	06-JUN-11
F-IC-WP								
	Water							



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Client: AECOM Canada Ltd. (Winnipeg)
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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-WP		Water						
Batch	R2197078							
WG1288401-2	LCS							
Fluoride			102		%		85-115	31-MAY-11
WG1288401-1	MB							
Fluoride			<0.10		mg/L		0.1	31-MAY-11
HG-D-CVAF-WP		Water						
Batch	R2203120							
WG1294817-3	DUP	L1010336-3						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
WG1294817-5	DUP	L1011291-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
WG1294817-2	LCS							
Mercury (Hg)-Dissolved			92		%		80-120	08-JUN-11
Mercury (Hg)-Dissolved			92		%		80-120	08-JUN-11
WG1294816-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
WG1294817-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
WG1294817-4	MS	L1010336-3						
Mercury (Hg)-Dissolved			99		%		70-130	08-JUN-11
Mercury (Hg)-Dissolved			99		%		70-130	08-JUN-11
WG1294817-6	MS	L1011291-1						
Mercury (Hg)-Dissolved			91		%		70-130	08-JUN-11
Mercury (Hg)-Dissolved			91		%		70-130	08-JUN-11
HG-T-CVAF-WP		Water						
Batch	R2198344							
WG1289697-3	DUP	L1009186-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-5	DUP	L1010393-5						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-2	LCS							



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
	Water							
Batch	R2198344							
WG1289697-2	LCS							
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
WG1289697-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
WG1289697-4	MS	L1009186-1						
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
WG1289697-6	MS	L1010393-5						
Mercury (Hg)-Total			115		%		70-130	02-JUN-11
Mercury (Hg)-Total			115		%		70-130	02-JUN-11
MET-D-L-MS-WP								
	Water							
Batch	R2196767							
WG1288070-4	DUP	WG1288070-3						
Aluminum (Al)-Dissolved		0.0258	0.0252		mg/L	2.4	20	31-MAY-11
Antimony (Sb)-Dissolved		0.00321	0.00325		mg/L	1.3	20	31-MAY-11
Arsenic (As)-Dissolved		0.00459	0.00466		mg/L	1.5	20	31-MAY-11
Barium (Ba)-Dissolved		0.0268	0.0269		mg/L	0.38	20	31-MAY-11
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Boron (B)-Dissolved		0.029	0.029		mg/L	2.4	400	31-MAY-11
Cadmium (Cd)-Dissolved		0.00189	0.00187		mg/L	1.4	20	31-MAY-11
Calcium (Ca)-Dissolved		164	166		mg/L	1.7	20	31-MAY-11
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Chromium (Cr)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	31-MAY-11
Cobalt (Co)-Dissolved		0.00089	0.00089		mg/L	0.22	400	31-MAY-11
Copper (Cu)-Dissolved		0.0252	0.0250		mg/L	0.81	20	31-MAY-11
Iron (Fe)-Dissolved		0.16	0.16		mg/L	2.5	400	31-MAY-11
Lead (Pb)-Dissolved		0.00120	0.00120		mg/L	0.083	20	31-MAY-11
Lithium (Li)-Dissolved		0.0079	0.0078		mg/L	1.3	400	31-MAY-11
Magnesium (Mg)-Dissolved		10.8	10.7		mg/L	0.91	20	31-MAY-11
Manganese (Mn)-Dissolved		0.0595	0.0608		mg/L	2.3	20	31-MAY-11
Molybdenum (Mo)-Dissolved		0.00387	0.00371		mg/L	4.3	20	31-MAY-11
Nickel (Ni)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	31-MAY-11



Quality Control Report

Workorder: L1010393

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2196767							
WG1288070-4	DUP	WG1288070-3						
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	31-MAY-11
Potassium (K)-Dissolved		6.11	6.16		mg/L	0.92	20	31-MAY-11
Rubidium (Rb)-Dissolved		0.00687	0.00665		mg/L	3.3	20	31-MAY-11
Selenium (Se)-Dissolved		0.0195	0.0198		mg/L	1.6	20	31-MAY-11
Silicon (Si)-Dissolved		0.995	1.02		mg/L	2.0	20	31-MAY-11
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Sodium (Na)-Dissolved		30.2	30.7		mg/L	1.7	20	31-MAY-11
Strontium (Sr)-Dissolved		1.02	0.999		mg/L	1.9	20	31-MAY-11
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	31-MAY-11
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Titanium (Ti)-Dissolved		0.00152	0.00176		mg/L	14	20	31-MAY-11
Tungsten (W)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Vanadium (V)-Dissolved		0.00041	0.00037		mg/L	12	400	31-MAY-11
Zinc (Zn)-Dissolved		0.323	0.323		mg/L	0.10	20	31-MAY-11
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1288070-2	LCS							
Aluminum (Al)-Dissolved			105		%		80-120	01-JUN-11
Antimony (Sb)-Dissolved			112		%		80-120	01-JUN-11
Arsenic (As)-Dissolved			107		%		80-120	01-JUN-11
Barium (Ba)-Dissolved			112		%		80-120	01-JUN-11
Beryllium (Be)-Dissolved			113		%		80-120	01-JUN-11
Bismuth (Bi)-Dissolved			114		%		80-120	01-JUN-11
Boron (B)-Dissolved			115		%		80-120	01-JUN-11
Cadmium (Cd)-Dissolved			101		%		80-120	01-JUN-11
Calcium (Ca)-Dissolved			106		%		80-120	01-JUN-11
Cesium (Cs)-Dissolved			106		%		80-120	01-JUN-11
Chromium (Cr)-Dissolved			109		%		80-120	01-JUN-11
Cobalt (Co)-Dissolved			112		%		80-120	01-JUN-11
Copper (Cu)-Dissolved			106		%		80-120	01-JUN-11
Iron (Fe)-Dissolved			101		%		80-120	01-JUN-11



Quality Control Report

Workorder: L1010393

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2196767							
WG1288070-2	LCS							
Lead (Pb)-Dissolved			110		%		80-120	01-JUN-11
Lithium (Li)-Dissolved			106		%		80-120	01-JUN-11
Magnesium (Mg)-Dissolved			107		%		80-120	01-JUN-11
Manganese (Mn)-Dissolved			112		%		80-120	01-JUN-11
Molybdenum (Mo)-Dissolved			108		%		80-120	01-JUN-11
Nickel (Ni)-Dissolved			110		%		80-120	01-JUN-11
Phosphorus (P)-Dissolved			115		%		80-120	01-JUN-11
Potassium (K)-Dissolved			108		%		80-120	01-JUN-11
Rubidium (Rb)-Dissolved			111		%		80-120	01-JUN-11
Selenium (Se)-Dissolved			110		%		80-120	01-JUN-11
Silicon (Si)-Dissolved			112		%		80-120	01-JUN-11
Silver (Ag)-Dissolved			101		%		80-120	01-JUN-11
Sodium (Na)-Dissolved			112		%		80-120	01-JUN-11
Strontium (Sr)-Dissolved			105		%		80-120	01-JUN-11
Tellurium (Te)-Dissolved			101		%		80-120	01-JUN-11
Thallium (Tl)-Dissolved			115		%		80-120	01-JUN-11
Thorium (Th)-Dissolved			103		%		80-120	01-JUN-11
Tin (Sn)-Dissolved			101		%		80-120	01-JUN-11
Titanium (Ti)-Dissolved			108		%		80-120	01-JUN-11
Tungsten (W)-Dissolved			111		%		80-120	01-JUN-11
Uranium (U)-Dissolved			108		%		80-120	01-JUN-11
Vanadium (V)-Dissolved			112		%		80-120	01-JUN-11
Zinc (Zn)-Dissolved			106		%		80-120	01-JUN-11
Zirconium (Zr)-Dissolved			109		%		80-120	01-JUN-11
WG1288070-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.02	31-MAY-11
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Arsenic (As)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Boron (B)-Dissolved			<0.010		mg/L		0.03	31-MAY-11
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.0002	31-MAY-11
Calcium (Ca)-Dissolved			<0.050		mg/L		0.2	31-MAY-11



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Workorder: L1010393

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R2196767							
WG1288070-1	MB							
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	31-MAY-11
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Copper (Cu)-Dissolved			<0.00020		mg/L		0.002	31-MAY-11
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	31-MAY-11
Lead (Pb)-Dissolved			<0.000090		mg/L		0.001	31-MAY-11
Lithium (Li)-Dissolved			<0.0020		mg/L		0.01	31-MAY-11
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.05	31-MAY-11
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.001	31-MAY-11
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.002	31-MAY-11
Phosphorus (P)-Dissolved			<0.10		mg/L		0.5	31-MAY-11
Potassium (K)-Dissolved			<0.020		mg/L		0.1	31-MAY-11
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0005	31-MAY-11
Selenium (Se)-Dissolved			<0.0010		mg/L		0.005	31-MAY-11
Silicon (Si)-Dissolved			<0.050		mg/L		0.3	31-MAY-11
Silver (Ag)-Dissolved			<0.00010		mg/L		0.001	31-MAY-11
Sodium (Na)-Dissolved			<0.020		mg/L		0.05	31-MAY-11
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.005	31-MAY-11
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	31-MAY-11
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0006	31-MAY-11
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.001	31-MAY-11
Tungsten (W)-Dissolved			<0.00020		mg/L		0.002	31-MAY-11
Uranium (U)-Dissolved			<0.00010		mg/L		0.0005	31-MAY-11
Vanadium (V)-Dissolved			<0.00020		mg/L		0.002	31-MAY-11
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.02	31-MAY-11
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.001	31-MAY-11

MET-T-L-MS-WP **Water**

Batch **R2196871**

WG1287363-4 **DUP**

WG1287363-3

Aluminum (Al)-Total		0.0791	0.0862		mg/L	8.6	20	31-MAY-11
Antimony (Sb)-Total		0.00360	0.00381					



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2196871							
WG1287363-4	DUP	WG1287363-3						
Antimony (Sb)-Total		0.00360	0.00381		mg/L	5.6	20	31-MAY-11
Arsenic (As)-Total		0.00643	0.00659		mg/L	2.5	20	31-MAY-11
Barium (Ba)-Total		0.0282	0.0293		mg/L	4.0	20	31-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Boron (B)-Total		0.027	0.028		mg/L	4.3	400	31-MAY-11
Cadmium (Cd)-Total		0.00296	0.00307		mg/L	3.6	20	31-MAY-11
Calcium (Ca)-Total		165	175		mg/L	6.2	20	31-MAY-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	31-MAY-11
Cobalt (Co)-Total		0.00125	0.00126		mg/L	1.1	20	31-MAY-11
Copper (Cu)-Total		0.0464	0.0474		mg/L	2.1	20	31-MAY-11
Iron (Fe)-Total		0.50	0.51		mg/L	1.8	20	31-MAY-11
Lead (Pb)-Total		0.00281	0.00288		mg/L	2.6	20	31-MAY-11
Lithium (Li)-Total		0.0097	0.0099		mg/L	2.8	400	31-MAY-11
Magnesium (Mg)-Total		10.5	10.7		mg/L	2.0	20	31-MAY-11
Manganese (Mn)-Total		0.0765	0.0769		mg/L	0.44	20	31-MAY-11
Molybdenum (Mo)-Total		0.00397	0.00407		mg/L	2.4	20	31-MAY-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	31-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	31-MAY-11
Potassium (K)-Total		6.63	6.74		mg/L	1.6	20	31-MAY-11
Rubidium (Rb)-Total		0.00732	0.00748		mg/L	2.2	20	31-MAY-11
Selenium (Se)-Total		0.0176	0.0175		mg/L	0.50	20	31-MAY-11
Silicon (Si)-Total		1.28	1.47		mg/L	14	20	31-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Sodium (Na)-Total		32.5	33.7		mg/L	3.5	20	31-MAY-11
Strontium (Sr)-Total		0.958	0.988		mg/L	3.0	20	31-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	31-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Titanium (Ti)-Total		0.00619	0.00629		mg/L	1.5	20	31-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010		mg/L			31-MAY-11



Quality Control Report

Workorder: L1010393

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2196871							
WG1287363-4 DUP		WG1287363-3						
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	31-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Vanadium (V)-Total		0.00045	0.00043		mg/L	4.3	400	31-MAY-11
Zinc (Zn)-Total		0.393	0.402		mg/L	2.3	20	31-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1287363-6 DUP		WG1287363-5						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	31-MAY-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Arsenic (As)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Barium (Ba)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	31-MAY-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	31-MAY-11
Calcium (Ca)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	31-MAY-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	31-MAY-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Copper (Cu)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Iron (Fe)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	31-MAY-11
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	400	31-MAY-11
Lithium (Li)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	31-MAY-11
Magnesium (Mg)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	31-MAY-11
Manganese (Mn)-Total		<0.00030	<0.00030	RPD-NA	mg/L	N/A	400	31-MAY-11
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	31-MAY-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	31-MAY-11
Potassium (K)-Total		<0.020	<0.020	RPD-NA	mg/L	N/A	400	31-MAY-11
Rubidium (Rb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	31-MAY-11
Silicon (Si)-Total		<0.050	<0.050	RPD-NA	mg/L	N/A	400	31-MAY-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Sodium (Na)-Total		<0.030	<0.030	RPD-NA	mg/L	N/A	400	31-MAY-11



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Workorder: L1010393

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2196871							
WG1287363-6	DUP	WG1287363-5						
Strontium (Sr)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	31-MAY-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Titanium (Ti)-Total		0.00039	0.00036		mg/L	6.7	400	31-MAY-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	31-MAY-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	31-MAY-11
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	31-MAY-11
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	31-MAY-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	31-MAY-11
WG1287363-2	LCS							
Aluminum (Al)-Total			107		%		80-120	31-MAY-11
Antimony (Sb)-Total			104		%		80-120	31-MAY-11
Arsenic (As)-Total			106		%		80-120	31-MAY-11
Barium (Ba)-Total			108		%		80-120	31-MAY-11
Beryllium (Be)-Total			106		%		80-120	31-MAY-11
Bismuth (Bi)-Total			103		%		80-120	31-MAY-11
Boron (B)-Total			104		%		80-120	31-MAY-11
Cadmium (Cd)-Total			109		%		80-120	31-MAY-11
Calcium (Ca)-Total			105		%		80-120	31-MAY-11
Cesium (Cs)-Total			109		%		80-120	31-MAY-11
Chromium (Cr)-Total			107		%		80-120	31-MAY-11
Cobalt (Co)-Total			113		%		80-120	31-MAY-11
Copper (Cu)-Total			106		%		80-120	31-MAY-11
Iron (Fe)-Total			108		%		80-120	31-MAY-11
Lead (Pb)-Total			101		%		80-120	31-MAY-11
Lithium (Li)-Total			107		%		80-120	31-MAY-11
Magnesium (Mg)-Total			106		%		80-120	31-MAY-11
Manganese (Mn)-Total			111		%		80-120	31-MAY-11
Molybdenum (Mo)-Total			110		%		80-120	31-MAY-11
Nickel (Ni)-Total			105		%		80-120	31-MAY-11
Phosphorus (P)-Total			112		%		80-120	31-MAY-11



Quality Control Report

Workorder: L1010393

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2196871							
WG1287363-2 LCS								
Potassium (K)-Total			107		%		80-120	31-MAY-11
Rubidium (Rb)-Total			109		%		80-120	31-MAY-11
Selenium (Se)-Total			107		%		80-120	31-MAY-11
Silicon (Si)-Total			114		%		80-120	31-MAY-11
Silver (Ag)-Total			105		%		80-120	31-MAY-11
Sodium (Na)-Total			108		%		80-120	31-MAY-11
Strontium (Sr)-Total			108		%		80-120	31-MAY-11
Tellurium (Te)-Total			110		%		80-120	31-MAY-11
Thallium (Tl)-Total			100		%		80-120	31-MAY-11
Thorium (Th)-Total			108		%		70-130	31-MAY-11
Tin (Sn)-Total			108		%		80-120	31-MAY-11
Titanium (Ti)-Total			107		%		80-120	31-MAY-11
Tungsten (W)-Total			104		%		80-120	31-MAY-11
Uranium (U)-Total			114		%		80-120	31-MAY-11
Vanadium (V)-Total			108		%		80-120	31-MAY-11
Zinc (Zn)-Total			106		%		80-120	31-MAY-11
Zirconium (Zr)-Total			108		%		80-120	31-MAY-11
WG1287363-1 MB								
Aluminum (Al)-Total			<0.0050		mg/L		0.02	31-MAY-11
Antimony (Sb)-Total			<0.00020		mg/L		0.001	31-MAY-11
Arsenic (As)-Total			<0.00020		mg/L		0.001	31-MAY-11
Barium (Ba)-Total			<0.00020		mg/L		0.0005	31-MAY-11
Beryllium (Be)-Total			<0.00020		mg/L		0.001	31-MAY-11
Bismuth (Bi)-Total			<0.00020		mg/L		0.0005	31-MAY-11
Boron (B)-Total			<0.010		mg/L		0.03	31-MAY-11
Cadmium (Cd)-Total			<0.000010		mg/L		0.0002	31-MAY-11
Calcium (Ca)-Total			<0.10		mg/L		0.2	31-MAY-11
Cesium (Cs)-Total			<0.00010		mg/L		0.0005	31-MAY-11
Chromium (Cr)-Total			<0.0010		mg/L		0.002	31-MAY-11
Cobalt (Co)-Total			<0.00020		mg/L		0.0005	31-MAY-11
Copper (Cu)-Total			<0.00020		mg/L		0.002	31-MAY-11
Iron (Fe)-Total			<0.10		mg/L		0.1	31-MAY-11
Lead (Pb)-Total			<0.000090		mg/L		0.001	31-MAY-11
Lithium (Li)-Total			<0.0020		mg/L		0.002	31-MAY-11



Quality Control Report

Workorder: L1010393

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2196871							
WG1287363-1	MB							
Magnesium (Mg)-Total			<0.010		mg/L		0.05	31-MAY-11
Manganese (Mn)-Total			<0.00030		mg/L		0.001	31-MAY-11
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0005	31-MAY-11
Nickel (Ni)-Total			<0.0020		mg/L		0.002	31-MAY-11
Phosphorus (P)-Total			<0.20		mg/L		0.5	31-MAY-11
Potassium (K)-Total			<0.020		mg/L		0.1	31-MAY-11
Rubidium (Rb)-Total			<0.00020		mg/L		0.0005	31-MAY-11
Selenium (Se)-Total			<0.0010		mg/L		0.005	31-MAY-11
Silicon (Si)-Total			<0.050		mg/L		0.3	31-MAY-11
Silver (Ag)-Total			<0.00010		mg/L		0.001	31-MAY-11
Sodium (Na)-Total			<0.030		mg/L		0.05	31-MAY-11
Strontium (Sr)-Total			<0.00010		mg/L		0.0005	31-MAY-11
Tellurium (Te)-Total			<0.00020		mg/L		0.001	31-MAY-11
Thallium (Tl)-Total			<0.00010		mg/L		0.005	31-MAY-11
Thorium (Th)-Total			<0.00010		mg/L		0.0001	31-MAY-11
Tin (Sn)-Total			<0.00020		mg/L		0.0006	31-MAY-11
Titanium (Ti)-Total			<0.00020		mg/L		0.001	31-MAY-11
Tungsten (W)-Total			<0.0010		mg/L		0.002	31-MAY-11
Uranium (U)-Total			<0.00010		mg/L		0.0005	31-MAY-11
Vanadium (V)-Total			<0.00020		mg/L		0.002	31-MAY-11
Zinc (Zn)-Total			<0.0050		mg/L		0.02	31-MAY-11
Zirconium (Zr)-Total			<0.00040		mg/L		0.001	31-MAY-11
N-TOTKJ-WP		Water						
Batch	R2196965							
WG1288329-1	CVS							
Total Kjeldahl Nitrogen			95		%		90-110	01-JUN-11
WG1287348-4	DUP	L1010124-1						
Total Kjeldahl Nitrogen		0.39	0.34		mg/L	13	20	01-JUN-11
WG1287348-7	DUP	L1010393-1						
Total Kjeldahl Nitrogen		0.88	0.86		mg/L	2.2	20	01-JUN-11
WG1287348-2	LCS							
Total Kjeldahl Nitrogen			94		%		75-125	01-JUN-11
WG1287348-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	01-JUN-11
WG1287348-5	MB							



Quality Control Report

Workorder: L1010393

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N-TOTKJ-WP								
	Water							
Batch	R2196965							
WG1287348-5	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	01-JUN-11
WG1287348-3	MS	L1010124-1						
Total Kjeldahl Nitrogen			86		%		70-130	01-JUN-11
WG1287348-6	MS	L1010393-1						
Total Kjeldahl Nitrogen			96		%		70-130	01-JUN-11
NH3-COL-WP								
	Water							
Batch	R2200308							
WG1291885-3	DUP	L1011705-3						
Ammonia as N		0.433	0.437		mg/L	0.75	20	07-JUN-11
WG1291885-5	DUP	L1010336-3						
Ammonia as N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	07-JUN-11
WG1291885-2	LCS							
Ammonia as N			99		%		85-115	07-JUN-11
WG1291885-1	MB							
Ammonia as N			<0.050		mg/L		0.05	07-JUN-11
WG1291885-4	MS	L1009861-4						
Ammonia as N			101		%		75-125	07-JUN-11
WG1291885-6	MS	L1010336-3						
Ammonia as N			115		%		75-125	07-JUN-11
NO2-IC-WP								
	Water							
Batch	R2197078							
WG1288401-3	DUP	L1010352-1						
Nitrite-N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	31-MAY-11
WG1288401-2	LCS							
Nitrite-N			101		%		85-115	31-MAY-11
WG1288401-1	MB							
Nitrite-N			<0.050		mg/L		0.05	31-MAY-11
WG1288401-4	MS	L1010352-1						
Nitrite-N			87		%		75-125	31-MAY-11
NO3-IC-WP								
	Water							
Batch	R2197078							
WG1288401-3	DUP	L1010352-1						
Nitrate-N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	31-MAY-11
WG1288401-2	LCS							
Nitrate-N			99		%		85-115	31-MAY-11
WG1288401-1	MB							



Quality Control Report

Workorder: L1010393

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed	
NO3-IC-WP									
Water									
Batch	R2197078								
WG1288401-1	MB								
Nitrate-N			<0.050		mg/L		0.05	31-MAY-11	
WG1288401-4	MS	L1010352-1	95		%		75-125	31-MAY-11	
Nitrate-N									
P-T-COL-WP									
Water									
Batch	R2196815								
WG1287084-3	DUP	L1010393-4	0.017	0.013	J	mg/L	0.003	0.02	31-MAY-11
Phosphorus (P)-Total									
WG1287084-4	DUP	L1010603-1	12.3	12.3		mg/L	0.0	20	31-MAY-11
Phosphorus (P)-Total									
WG1287084-2	LCS		94		%		80-120	31-MAY-11	
Phosphorus (P)-Total									
WG1287084-1	MB		<0.010		mg/L		0.01	31-MAY-11	
Phosphorus (P)-Total									
WG1287084-5	MS	L1010230-2	100		%		70-130	31-MAY-11	
Phosphorus (P)-Total									
PH-WP									
Water									
Batch	R2196175								
WG1287385-4	DUP	L1010352-1	7.61	7.68	J	pH units	0.07	0.2	30-MAY-11
pH									
WG1287385-5	DUP	L1010399-1	7.95	7.78	J	pH units	0.16	0.2	30-MAY-11
pH									
WG1287385-6	DUP	L1010336-1	7.33	7.34	J	pH units	0.01	0.2	30-MAY-11
pH									
WG1287385-2	LCS		7.38		pH units		7.3-7.5	30-MAY-11	
pH									
SIO2-L-COL-WP									
Water									
Batch	R2200809								
WG1292266-5	DUP	L1012431-2	6.06	6.21		mg/L	2.6	20	08-JUN-11
Silica, Reactive (as SiO2)									
WG1292266-6	DUP	L1010371-3	8.12	8.27		mg/L	1.8	20	08-JUN-11
Silica, Reactive (as SiO2)									
WG1292266-2	LCS		99		%		85-115	08-JUN-11	
Silica, Reactive (as SiO2)									
WG1292266-1	MB		<0.0050		mg/L		0.005	08-JUN-11	
Silica, Reactive (as SiO2)									
WG1292266-3	MS	L1008007-4							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SIO2-L-COL-WP								
	Water							
Batch	R2200809							
WG1292266-3	MS	L1008007-4						
Silica, Reactive (as SiO2)			97		%		75-125	08-JUN-11
WG1292266-4	MS	L1010336-3						
Silica, Reactive (as SiO2)			97		%		75-125	08-JUN-11
SO4-IC-WP								
	Water							
Batch	R2197078							
WG1288401-3	DUP	L1010352-1						
Sulfate		35.5	35.4		mg/L	0.17	20	31-MAY-11
WG1288401-2	LCS							
Sulfate			100		%		85-115	31-MAY-11
WG1288401-1	MB							
Sulfate			<0.50		mg/L		0.5	31-MAY-11
WG1288401-4	MS	L1010352-1						
Sulfate			100		%		75-125	31-MAY-11
SOLIDS-TDS-WP								
	Water							
Batch	R2197465							
WG1287967-2	CVS							
Total Dissolved Solids			100		%		85-115	01-JUN-11
WG1287967-3	DUP	L1010393-1						
Total Dissolved Solids		40.0	46.0		mg/L	14	20	01-JUN-11
WG1287967-4	DUP	L1010393-5						
Total Dissolved Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	400	01-JUN-11
WG1287967-8	DUP	L1011029-1						
Total Dissolved Solids		3160	3210		mg/L	1.4	20	01-JUN-11
WG1287967-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	01-JUN-11
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2197465							
WG1287967-2	CVS							
Total Suspended Solids			96		%		85-115	01-JUN-11
WG1287967-3	DUP	L1010393-1						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	400	01-JUN-11
WG1287967-4	DUP	L1010393-5						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	400	01-JUN-11
WG1287967-6	DUP	L1010716-2						
Total Suspended Solids		81.0	76.0		mg/L	6.4	20	01-JUN-11
WG1287967-8	DUP	L1011029-1						



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2197465							
WG1287967-8	DUP	L1011029-1						
Total Suspended Solids		65.0	75.0		mg/L	14	20	01-JUN-11
WG1287967-1	MB							
Total Suspended Solids			<5.0		mg/L		5	01-JUN-11
TURBIDITY-WP								
	Water							
Batch	R2196236							
WG1287463-3	DUP	L1010400-1						
Turbidity		1.15	1.22		NTU	5.9	15	30-MAY-11
WG1287463-2	LCS							
Turbidity			101		%		85-115	30-MAY-11
WG1287463-1	MB							
Turbidity			<0.10		NTU		0.1	30-MAY-11

Quality Control Report

Workorder: L1010393

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L1010393

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Turbidity							
	1	27-MAY-11 16:00	30-MAY-11 13:07	48	69	hours	EHTR
	2	27-MAY-11 15:18	30-MAY-11 13:07	48	70	hours	EHTR
	3	27-MAY-11 14:45	30-MAY-11 13:07	48	70	hours	EHTR
	4	27-MAY-11 15:19	30-MAY-11 13:07	48	70	hours	EHTR
	5	27-MAY-11 16:00	30-MAY-11 13:07	48	69	hours	EHTR
pH							
	1	27-MAY-11 16:00	30-MAY-11 12:01	0.25	68	hours	EHTR-FM
	2	27-MAY-11 15:18	30-MAY-11 12:01	0.25	69	hours	EHTR-FM
	3	27-MAY-11 14:45	30-MAY-11 12:01	0.25	69	hours	EHTR-FM
	4	27-MAY-11 15:19	30-MAY-11 12:01	0.25	69	hours	EHTR-FM
	5	27-MAY-11 16:00	30-MAY-11 12:01	0.25	68	hours	EHTR-FM
Anions and Nutrients							
Bromide							
	1	27-MAY-11 16:00	31-MAY-11 15:41	48	96	hours	EHTR
	2	27-MAY-11 15:18	31-MAY-11 15:41	48	96	hours	EHTR
	3	27-MAY-11 14:45	31-MAY-11 15:41	48	97	hours	EHTR
	4	27-MAY-11 15:19	31-MAY-11 15:41	48	96	hours	EHTR
	5	27-MAY-11 16:00	31-MAY-11 15:41	48	96	hours	EHTR
Nitrate as N							
	1	27-MAY-11 16:00	31-MAY-11 15:41	48	96	hours	EHTR
	2	27-MAY-11 15:18	31-MAY-11 15:41	48	96	hours	EHTR
	3	27-MAY-11 14:45	31-MAY-11 15:41	48	97	hours	EHTR
	4	27-MAY-11 15:19	31-MAY-11 15:41	48	96	hours	EHTR
	5	27-MAY-11 16:00	31-MAY-11 15:41	48	96	hours	EHTR
Nitrite as N							
	1	27-MAY-11 16:00	31-MAY-11 15:41	48	96	hours	EHTR
	2	27-MAY-11 15:18	31-MAY-11 15:41	48	96	hours	EHTR
	3	27-MAY-11 14:45	31-MAY-11 15:41	48	97	hours	EHTR
	4	27-MAY-11 15:19	31-MAY-11 15:41	48	96	hours	EHTR
	5	27-MAY-11 16:00	31-MAY-11 15:41	48	96	hours	EHTR
Phosphorus, Total							
	1	27-MAY-11 16:00	30-MAY-11 17:24	48	73	hours	EHTR
	2	27-MAY-11 15:18	30-MAY-11 17:24	48	74	hours	EHTR
	3	27-MAY-11 14:45	30-MAY-11 17:24	48	75	hours	EHTR
	4	27-MAY-11 15:19	30-MAY-11 17:24	48	74	hours	EHTR
	5	27-MAY-11 16:00	30-MAY-11 17:24	48	73	hours	EHTR
Aggregate Organics							
Carbonaceous BOD							
	1	27-MAY-11 16:00	30-MAY-11 13:53	48	70	hours	EHTR
	2	27-MAY-11 15:18	30-MAY-11 13:53	48	71	hours	EHTR
	3	27-MAY-11 14:45	30-MAY-11 13:53	48	71	hours	EHTR
	4	27-MAY-11 15:19	30-MAY-11 13:53	48	71	hours	EHTR
	5	27-MAY-11 16:00	30-MAY-11 13:53	48	70	hours	EHTR
Organic Parameters							
Chlorophyll a, Pheophytin by fluorometry							
	1	27-MAY-11 16:00	30-MAY-11 08:20	48	64	hours	EHTR
	2	27-MAY-11 15:18	30-MAY-11 08:20	48	65	hours	EHTR
	3	27-MAY-11 14:45	30-MAY-11 08:20	48	66	hours	EHTR
	4	27-MAY-11 15:19	30-MAY-11 08:20	48	65	hours	EHTR
	5	27-MAY-11 16:00	30-MAY-11 08:20	48	64	hours	EHTR

Legend & Qualifier Definitions:

Quality Control Report

Workorder: L1010393

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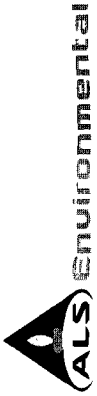
EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1010393 were received on 30-MAY-11 08:20.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



COC #

L1010393

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Report To
 Company: AECOM -W172
 Contact: Cliff Samoloff
 Address: 99 Commerce Dr
 Phone: _____ Fax: _____
 Email 1: cliff.samoloff@aecom.com
 Email 2: shawna.kjartanson@aecom.com
 Email 3: _____

Report Format / Distribution
 Standard Other
 PDF Excel Digital Fax

Service Requested (Rush for routine analysis subject to availability)
 Regular (Standard Turnaround Times - Business Days)
 Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
 Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
 Same Day or Weekend Emergency - Contact ALS to Confirm TAT

Analysis Request
 Please indicate below Filtered, Preserved or both (F, P, F/P)
 Chlorophylla / Pheophytin: X
 Acidity, Colour, Turbidity: X
 Anions, Br, silica, ph.ec, Alk: X
 NH3, TKN, PT: X
 CBOD: X
 Solids (TSS, TDS): X
 Metals & Hg - Total: X
 Metals & Hg - Dissolved: X
 TOC, DOC: X

Client / Project Information
 Job #: 60213483-200
 PO / AFE: _____
 LSD: _____
 Quote #: Q24534

ALS Contact: _____
Sampler: _____
 Date: 27MAR11
 Time: 16:00
 Sample Type: water

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Chlorophylla / Pheophytin	Acidity, Colour, Turbidity	Anions, Br, silica, ph.ec, Alk	NH3, TKN, PT	CBOD	Solids (TSS, TDS)	Metals & Hg - Total	Metals & Hg - Dissolved	TOC, DOC	Number of Containers
1	THL-01	27MAR11	16:00	water	X	X	X	X	X	X	X	X	X	6
2	THL-02	27MAR11	15:18	↓	X	X	X	X	X	X	X	X	X	6
3	THL-03	27MAR11	15:19	↓	X	X	X	X	X	X	X	X	X	6
4	DUP-02	27MAR11	15:19	↓	X	X	X	X	X	X	X	X	X	6
5	TRB-07	27MAR11	16:00	↓	X	X	X	X	X	X	X	X	X	6

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details
 Over 48hrs upon receipt

SHIPMENT RECEPTION (lab use only)
 Received by: _____
 Date: 28MAY11
 Time: 08:20
 Temperature: 11.7 °C

SHIPMENT VERIFICATION (lab use only)
 Verified by: _____
 Date: _____
 Time: _____
 Observations: Yes / No? If Yes add SIF

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 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 01-JUN-11
Report Date: 14-JUN-11 13:02 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1011291
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-200
Legal Site Desc:
C of C Numbers:

Paul Nicolas
Account Manager

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ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011291-1 TRB-09							
Sampled By: CLIENT on 29-MAY-11 @ 12:00							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		01-JUN-11	R2197723
Fluoride							
Fluoride	<0.10		0.10	mg/L		01-JUN-11	R2197723
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Sulfate							
Sulfate	<0.50		0.50	mg/L		01-JUN-11	R2197723
Miscellaneous Parameters							
Acidity (as CaCO3)	1.9		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		10-JUN-11	R2202824
Bromide (Br)	<0.10		0.10	mg/L		01-JUN-11	R2197723
BOD Carbonaceous	<1.0		1.0	mg/L	01-JUN-11	06-JUN-11	R2199473
Colour, True	<5.0		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	<1.0		1.0	mg/L		10-JUN-11	R2202699
Hardness (as CaCO3)	<0.30		0.30	mg/L		03-JUN-11	
Hardness (as CaCO3)	0.22		0.20	mg/L		07-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		01-JUN-11	
Phosphorus (P)-Total	<0.010		0.010	mg/L		02-JUN-11	R2197462
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		10-JUN-11	R2202013
Total Dissolved Solids	<5.0		5.0	mg/L		03-JUN-11	R2199134
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	06-JUN-11	09-JUN-11	R2201491
Total Organic Carbon	<1.0		1.0	mg/L		10-JUN-11	R2202699
Total Suspended Solids	<5.0		5.0	mg/L		03-JUN-11	R2199134
Turbidity	0.10		0.10	NTU		01-JUN-11	R2197853
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Arsenic (As)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Barium (Ba)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Boron (B)-Total	<0.010		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	02-JUN-11	02-JUN-11	R2198215
Calcium (Ca)-Total	<0.10		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Copper (Cu)-Total	0.00105		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Iron (Fe)-Total	<0.10		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Lead (Pb)-Total	<0.000090		0.000090	mg/L	02-JUN-11	02-JUN-11	R2198215
Lithium (Li)-Total	<0.0020		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215
Magnesium (Mg)-Total	<0.010		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	02-JUN-11	02-JUN-11	R2198215
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011291-1 TRB-09							
Sampled By: CLIENT on 29-MAY-11 @ 12:00							
Matrix: WATER							
Total Metals by ICP-MS							
Phosphorus (P)-Total	<0.20		0.20	mg/L	02-JUN-11	02-JUN-11	R2198215
Potassium (K)-Total	<0.020		0.020	mg/L	02-JUN-11	02-JUN-11	R2198215
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Selenium (Se)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Silicon (Si)-Total	<0.050		0.050	mg/L	02-JUN-11	02-JUN-11	R2198215
Silver (Ag)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Sodium (Na)-Total	<0.030		0.030	mg/L	02-JUN-11	02-JUN-11	R2198215
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Thorium (Th)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tin (Sn)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Titanium (Ti)-Total	0.00023		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Tungsten (W)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Uranium (U)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Vanadium (V)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	02-JUN-11	02-JUN-11	R2198215
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Boron (B)-Dissolved	<0.010		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	01-JUN-11	03-JUN-11	R2199629
Calcium (Ca)-Dissolved	0.087		0.050	mg/L	01-JUN-11	03-JUN-11	R2199629
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	01-JUN-11	03-JUN-11	R2199629
Lithium (Li)-Dissolved	0.0028		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Potassium (K)-Dissolved	<0.020		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	01-JUN-11	03-JUN-11	R2199629
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011291-1 TRB-09							
Sampled By: CLIENT on 29-MAY-11 @ 12:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	01-JUN-11	03-JUN-11	R2199629
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
Phaeophytin a	<0.10		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	1.8		1.0	mg/L		07-JUN-11	R2200310
Bicarbonate (HCO3)	2.2		2.0	mg/L		07-JUN-11	R2200310
Carbonate (CO3)	<0.60		0.60	mg/L		07-JUN-11	R2200310
Hydroxide (OH)	<0.40		0.40	mg/L		07-JUN-11	R2200310
Conductivity							
Conductivity	0.84		0.40	umhos/cm		11-JUN-11	R2202605
pH							
pH	5.88		0.10	pH units		02-JUN-11	R2198424
L1011291-2 ARL-01							
Sampled By: CLIENT on 29-MAY-11 @ 15:41							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		01-JUN-11	R2197723
Fluoride							
Fluoride	<0.10		0.10	mg/L		01-JUN-11	R2197723
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Sulfate							
Sulfate	<0.50		0.50	mg/L		01-JUN-11	R2197723
Miscellaneous Parameters							
Acidity (as CaCO3)	1.8		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		10-JUN-11	R2202824
Bromide (Br)	<0.10		0.10	mg/L		01-JUN-11	R2197723
BOD Carbonaceous	1.3		1.0	mg/L	01-JUN-11	06-JUN-11	R2199473
Colour, True	71.4		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	19.5		1.0	mg/L		11-JUN-11	R2202699
Hardness (as CaCO3)	31.8		0.30	mg/L		03-JUN-11	
Hardness (as CaCO3)	29.9		0.20	mg/L		07-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		01-JUN-11	
Phosphorus (P)-Total	<0.010		0.010	mg/L		02-JUN-11	R2197462
Silica, Reactive (as SiO2)	0.188		0.0050	mg/L		10-JUN-11	R2202013
Total Dissolved Solids	32.0		5.0	mg/L		03-JUN-11	R2199134
Total Kjeldahl Nitrogen	1.02		0.20	mg/L	06-JUN-11	09-JUN-11	R2201491
Total Organic Carbon	19.4		1.0	mg/L		10-JUN-11	R2202699

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011291-2 ARL-01							
Sampled By: CLIENT on 29-MAY-11 @ 15:41							
Matrix: WATER							
Total Suspended Solids	<5.0		5.0	mg/L		03-JUN-11	R2199134
Turbidity	0.76		0.10	NTU		01-JUN-11	R2197853
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0301		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Arsenic (As)-Total	0.00131		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Barium (Ba)-Total	0.00289		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Boron (B)-Total	<0.010		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	02-JUN-11	02-JUN-11	R2198215
Calcium (Ca)-Total	8.31		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Copper (Cu)-Total	0.00038		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Iron (Fe)-Total	0.15		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Lead (Pb)-Total	<0.000090		0.000090	mg/L	02-JUN-11	02-JUN-11	R2198215
Lithium (Li)-Total	<0.0020		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215
Magnesium (Mg)-Total	2.69		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Manganese (Mn)-Total	0.00808		0.00030	mg/L	02-JUN-11	02-JUN-11	R2198215
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215
Phosphorus (P)-Total	<0.20		0.20	mg/L	02-JUN-11	02-JUN-11	R2198215
Potassium (K)-Total	0.449		0.020	mg/L	02-JUN-11	02-JUN-11	R2198215
Rubidium (Rb)-Total	0.00071		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Selenium (Se)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Silicon (Si)-Total	0.123		0.050	mg/L	02-JUN-11	02-JUN-11	R2198215
Silver (Ag)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Sodium (Na)-Total	0.912		0.030	mg/L	02-JUN-11	02-JUN-11	R2198215
Strontium (Sr)-Total	0.0145		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Thorium (Th)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tin (Sn)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Titanium (Ti)-Total	0.00029		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Tungsten (W)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Uranium (U)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Vanadium (V)-Total	0.00026		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	02-JUN-11	02-JUN-11	R2198215
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0266		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Arsenic (As)-Dissolved	0.00132		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Barium (Ba)-Dissolved	0.00298		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Boron (B)-Dissolved	<0.010		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	01-JUN-11	03-JUN-11	R2199629
Calcium (Ca)-Dissolved	7.51		0.050	mg/L	01-JUN-11	03-JUN-11	R2199629
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011291-2 ARL-01							
Sampled By: CLIENT on 29-MAY-11 @ 15:41							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Copper (Cu)-Dissolved	0.00038		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Iron (Fe)-Dissolved	0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	01-JUN-11	03-JUN-11	R2199629
Lithium (Li)-Dissolved	0.0035		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Magnesium (Mg)-Dissolved	2.72		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Manganese (Mn)-Dissolved	0.00177		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Potassium (K)-Dissolved	0.434		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Rubidium (Rb)-Dissolved	0.00068		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Silicon (Si)-Dissolved	0.108		0.050	mg/L	01-JUN-11	03-JUN-11	R2199629
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Sodium (Na)-Dissolved	0.971		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Strontium (Sr)-Dissolved	0.0140		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Vanadium (V)-Dissolved	0.00033		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zinc (Zn)-Dissolved	0.0029		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	01-JUN-11	03-JUN-11	R2199629
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	0.87		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
Phaeophytin a	0.77		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	26.7		1.0	mg/L		07-JUN-11	R2200310
Bicarbonate (HCO3)	32.6		2.0	mg/L		07-JUN-11	R2200310
Carbonate (CO3)	<0.60		0.60	mg/L		07-JUN-11	R2200310
Hydroxide (OH)	<0.40		0.40	mg/L		07-JUN-11	R2200310
Conductivity							
Conductivity	55.3		0.40	umhos/cm		02-JUN-11	R2198424
pH							
pH	7.55		0.10	pH units		02-JUN-11	R2198424
L1011291-3 ULI-01							
Sampled By: CLIENT on 29-MAY-11 @ 10:35							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		01-JUN-11	R2197723
Fluoride							
Fluoride	<0.10		0.10	mg/L		01-JUN-11	R2197723
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		01-JUN-11	R2197723

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011291-3 ULI-01							
Sampled By: CLIENT on 29-MAY-11 @ 10:35							
Matrix: WATER							
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Sulfate							
Sulfate	1.15		0.50	mg/L		01-JUN-11	R2197723
Miscellaneous Parameters							
Acidity (as CaCO3)	2.5		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		10-JUN-11	R2202824
Bromide (Br)	<0.10		0.10	mg/L		01-JUN-11	R2197723
BOD Carbonaceous	2.2		1.0	mg/L	01-JUN-11	06-JUN-11	R2199473
Colour, True	56.9		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	22.5		1.0	mg/L		11-JUN-11	R2202699
Hardness (as CaCO3)	28.6		0.30	mg/L		03-JUN-11	
Hardness (as CaCO3)	25.7		0.20	mg/L		07-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		01-JUN-11	
Phosphorus (P)-Total	0.024		0.010	mg/L		02-JUN-11	R2197462
Silica, Reactive (as SiO2)	0.156		0.0050	mg/L		10-JUN-11	R2202013
Total Dissolved Solids	28.0		5.0	mg/L		03-JUN-11	R2199134
Total Kjeldahl Nitrogen	1.28		0.20	mg/L	06-JUN-11	09-JUN-11	R2201491
Total Organic Carbon	23.5		1.0	mg/L		11-JUN-11	R2202699
Total Suspended Solids	<5.0		5.0	mg/L		03-JUN-11	R2199134
Turbidity	1.87		0.10	NTU		01-JUN-11	R2197853
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0874		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Arsenic (As)-Total	0.00100		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Barium (Ba)-Total	0.0132		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Boron (B)-Total	<0.010		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	02-JUN-11	02-JUN-11	R2198215
Calcium (Ca)-Total	8.91		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Copper (Cu)-Total	0.00142		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Iron (Fe)-Total	0.24		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Lead (Pb)-Total	0.000199		0.000090	mg/L	02-JUN-11	02-JUN-11	R2198215
Lithium (Li)-Total	<0.0020		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215
Magnesium (Mg)-Total	1.55		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Manganese (Mn)-Total	0.0245		0.00030	mg/L	02-JUN-11	02-JUN-11	R2198215
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215
Phosphorus (P)-Total	<0.20		0.20	mg/L	02-JUN-11	02-JUN-11	R2198215
Potassium (K)-Total	0.866		0.020	mg/L	02-JUN-11	02-JUN-11	R2198215
Rubidium (Rb)-Total	0.00168		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Selenium (Se)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Silicon (Si)-Total	0.209		0.050	mg/L	02-JUN-11	02-JUN-11	R2198215
Silver (Ag)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Sodium (Na)-Total	0.783		0.030	mg/L	02-JUN-11	02-JUN-11	R2198215

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011291-3 ULI-01							
Sampled By: CLIENT on 29-MAY-11 @ 10:35							
Matrix: WATER							
Total Metals by ICP-MS							
Strontium (Sr)-Total	0.0154		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Thorium (Th)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tin (Sn)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Titanium (Ti)-Total	0.00088		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Tungsten (W)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Uranium (U)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Vanadium (V)-Total	0.00040		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	02-JUN-11	02-JUN-11	R2198215
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0526		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Arsenic (As)-Dissolved	0.00093		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Barium (Ba)-Dissolved	0.0112		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Boron (B)-Dissolved	<0.010		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	01-JUN-11	03-JUN-11	R2199629
Calcium (Ca)-Dissolved	7.81		0.050	mg/L	01-JUN-11	03-JUN-11	R2199629
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Copper (Cu)-Dissolved	0.00113		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	01-JUN-11	03-JUN-11	R2199629
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Magnesium (Mg)-Dissolved	1.50		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Manganese (Mn)-Dissolved	0.00090		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Potassium (K)-Dissolved	0.779		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Rubidium (Rb)-Dissolved	0.00150		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Silicon (Si)-Dissolved	0.089		0.050	mg/L	01-JUN-11	03-JUN-11	R2199629
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Sodium (Na)-Dissolved	0.813		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Strontium (Sr)-Dissolved	0.0142		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Titanium (Ti)-Dissolved	0.00025		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Vanadium (V)-Dissolved	0.00032		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	01-JUN-11	03-JUN-11	R2199629
Chlorophyll a, Pheophytin by fluorometry							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011291-3 ULI-01							
Sampled By: CLIENT on 29-MAY-11 @ 10:35							
Matrix: WATER							
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	8.69		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
Phaeophytin a	3.72		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	21.8		1.0	mg/L		07-JUN-11	R2200310
Bicarbonate (HCO3)	26.6		2.0	mg/L		07-JUN-11	R2200310
Carbonate (CO3)	<0.60		0.60	mg/L		07-JUN-11	R2200310
Hydroxide (OH)	<0.40		0.40	mg/L		07-JUN-11	R2200310
Conductivity							
Conductivity	50.7		0.40	umhos/cm		02-JUN-11	R2198424
pH							
pH	7.33		0.10	pH units		02-JUN-11	R2198424
L1011291-4 FLB-02							
Sampled By: CLIENT on 29-MAY-11 @ 10:35							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		01-JUN-11	R2197723
Fluoride							
Fluoride	<0.10		0.10	mg/L		01-JUN-11	R2197723
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Sulfate							
Sulfate	<0.50		0.50	mg/L		01-JUN-11	R2197723
Miscellaneous Parameters							
Acidity (as CaCO3)	1.4		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		10-JUN-11	R2202824
Bromide (Br)	<0.10		0.10	mg/L		01-JUN-11	R2197723
BOD Carbonaceous	<1.0		1.0	mg/L	01-JUN-11	06-JUN-11	R2199473
Colour, True	<5.0		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	<1.0		1.0	mg/L		11-JUN-11	R2202699
Hardness (as CaCO3)	0.33		0.30	mg/L		03-JUN-11	
Hardness (as CaCO3)	0.54		0.20	mg/L		07-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		01-JUN-11	
Phosphorus (P)-Total	<0.010		0.010	mg/L		02-JUN-11	R2197462
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		10-JUN-11	R2202013
Total Dissolved Solids	<5.0		5.0	mg/L		03-JUN-11	R2199134
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	06-JUN-11	09-JUN-11	R2201491
Total Organic Carbon	<1.0		1.0	mg/L		11-JUN-11	R2202699
Total Suspended Solids	<5.0		5.0	mg/L		03-JUN-11	R2199134
Turbidity	0.27		0.10	NTU		01-JUN-11	R2197853
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Arsenic (As)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Barium (Ba)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011291-4 FLB-02							
Sampled By: CLIENT on 29-MAY-11 @ 10:35							
Matrix: WATER							
Total Metals by ICP-MS							
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Boron (B)-Total	<0.010		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cadmium (Cd)-Total	0.000012		0.000010	mg/L	02-JUN-11	02-JUN-11	R2198215
Calcium (Ca)-Total	0.13		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Copper (Cu)-Total	0.00025		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Iron (Fe)-Total	<0.10		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Lead (Pb)-Total	<0.000090		0.000090	mg/L	02-JUN-11	02-JUN-11	R2198215
Lithium (Li)-Total	<0.0020		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215
Magnesium (Mg)-Total	<0.010		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	02-JUN-11	02-JUN-11	R2198215
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215
Phosphorus (P)-Total	<0.20		0.20	mg/L	02-JUN-11	02-JUN-11	R2198215
Potassium (K)-Total	<0.020		0.020	mg/L	02-JUN-11	02-JUN-11	R2198215
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Selenium (Se)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Silicon (Si)-Total	<0.050		0.050	mg/L	02-JUN-11	02-JUN-11	R2198215
Silver (Ag)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Sodium (Na)-Total	<0.030		0.030	mg/L	02-JUN-11	02-JUN-11	R2198215
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Thorium (Th)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tin (Sn)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Tungsten (W)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Uranium (U)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Vanadium (V)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	02-JUN-11	02-JUN-11	R2198215
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Boron (B)-Dissolved	<0.010		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	01-JUN-11	03-JUN-11	R2199629
Calcium (Ca)-Dissolved	0.215		0.050	mg/L	01-JUN-11	03-JUN-11	R2199629
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	01-JUN-11	03-JUN-11	R2199629
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011291-4 FLB-02							
Sampled By: CLIENT on 29-MAY-11 @ 10:35							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Potassium (K)-Dissolved	<0.020		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	01-JUN-11	03-JUN-11	R2199629
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Strontium (Sr)-Dissolved	0.00013		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	01-JUN-11	03-JUN-11	R2199629
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
Phaeophytin a	<0.10		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	2.1		1.0	mg/L		07-JUN-11	R2200310
Bicarbonate (HCO3)	2.6		2.0	mg/L		07-JUN-11	R2200310
Carbonate (CO3)	<0.60		0.60	mg/L		07-JUN-11	R2200310
Hydroxide (OH)	<0.40		0.40	mg/L		07-JUN-11	R2200310
Conductivity							
Conductivity	1.20		0.40	umhos/cm		06-JUN-11	R2200319
pH							
pH	6.25		0.10	pH units		02-JUN-11	R2198424

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B
Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically.			
BR-IC-WP	Water	Bromide	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
CHL,PHEO-FLUORO-WP	Water	Chlorophyll a, Pheophytin by fluorometry	EPA 445.0
Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification.			
CL-IC-WP	Water	Chloride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR
This analysis is carried out using procedures adapted from APHA 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. Colour is pH dependent. Unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit.			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.			
EC-WP	Water	Conductivity	APHA 2510B
Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	HARDNESS CALCULATED
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
F-IC-WP	Water	Fluoride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
		Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
		Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
		Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.	
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
		Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.	
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-WP	Water	Nitrite as N	EPA 300.1 IC
NO3-IC-WP	Water	Nitrate as N	EPA 300.1 IC
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
		This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.	
PH-WP	Water	pH	APHA 4500H
		The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.	
SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2
		This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.	
SO4-IC-WP	Water	Sulfate	EPA 300.1 IC
		This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".	
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540C
		The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.	
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540D
		The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.	
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1011291

Report Date: 14-JUN-11

Page 1 of 20

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R2202438							
WG1294090-2	CVS							
Acidity (as CaCO3)			101		%		85-115	10-JUN-11
WG1294090-3	DUP	L1010047-1						
Acidity (as CaCO3)		2.2	2.2		mg/L	0.0	400	10-JUN-11
WG1294090-4	DUP	L1012148-11						
Acidity (as CaCO3)		2.0	1.9		mg/L	3.3	400	10-JUN-11
WG1294090-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	10-JUN-11
ALK-TOT-WP								
	Water							
Batch	R2200310							
WG1291913-3	CVS							
Alkalinity, Total (as CaCO3)			101		%		85-115	07-JUN-11
WG1291913-5	CVS							
Alkalinity, Total (as CaCO3)			110		%		85-115	07-JUN-11
WG1291913-4	DUP	L1012148-14						
Alkalinity, Total (as CaCO3)		16.0	15.9		mg/L	0.18	20	07-JUN-11
Bicarbonate (HCO3)		19.5	19.4		mg/L	0.18	25	07-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	07-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	07-JUN-11
WG1291913-6	DUP	L1012148-3						
Alkalinity, Total (as CaCO3)		20.7	20.8		mg/L	0.14	20	07-JUN-11
Bicarbonate (HCO3)		25.3	25.3		mg/L	0.14	25	07-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	07-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	07-JUN-11
BR-IC-WP								
	Water							
Batch	R2197723							
WG1289025-3	DUP	L1011291-3						
Bromide (Br)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	01-JUN-11
WG1289025-2	LCS							
Bromide (Br)			102		%		85-115	01-JUN-11
WG1289025-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	01-JUN-11
WG1289025-4	MS	L1011291-3						
Bromide (Br)			92		%		75-125	01-JUN-11
C-DIS-ORG-WP								
	Water							



Quality Control Report

Workorder: L1011291

Report Date: 14-JUN-11

Page 2 of 20

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-DIS-ORG-WP								
	Water							
Batch	R2202699							
WG1294373-2	CVS							
Dissolved Organic Carbon			103		%		80-120	10-JUN-11
WG1294370-2	DUP	L1011302-3						
Dissolved Organic Carbon		9.5	9.2		mg/L	2.4	20	11-JUN-11
C-TOT-ORG-WP								
	Water							
Batch	R2202699							
WG1294373-2	CVS							
Total Organic Carbon			102		%		80-120	10-JUN-11
WG1294373-3	DUP	L1011230-3						
Total Organic Carbon		14.8	14.5		mg/L	2.1	20	10-JUN-11
WG1294373-1	MB							
Total Organic Carbon			<1.0		mg/L		1	10-JUN-11
CHL,PHEO-FLUORO-WP								
	Water							
Batch	R2201024							
WG1292662-1	CVS							
Chlorophyll a			101		%		65-135	08-JUN-11
WG1292662-2	CVS							
Chlorophyll a			122		%		65-135	08-JUN-11
WG1292654-2	DUP	L1011291-3						
Chlorophyll a		8.69	8.11		ug/L	6.9	35	08-JUN-11
Phaeophytin a		3.72	3.70		ug/L	0.54	35	08-JUN-11
WG1292654-3	DUP	L1012522-2						
Chlorophyll a		2.23	1.77		ug/L	23	35	08-JUN-11
Phaeophytin a		0.94	0.99		ug/L	5.2	35	08-JUN-11
WG1292654-1	MB							
Chlorophyll a			<0.10		ug/L		0.1	08-JUN-11
Phaeophytin a			<0.10		ug/L		0.1	08-JUN-11
CL-IC-WP								
	Water							
Batch	R2197723							
WG1289025-3	DUP	L1011291-3						
Chloride		<0.50	<0.50	RPD-NA	mg/L	N/A	20	01-JUN-11
WG1289025-2	LCS							
Chloride			100		%		85-115	01-JUN-11
WG1289025-1	MB							
Chloride			<0.50		mg/L		0.5	01-JUN-11
WG1289025-4	MS	L1011291-3						
Chloride			98		%		75-125	01-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
COLOUR-TRUE-WP								
	Water							
Batch	R2198910							
WG1290376-3	DUP	L1010400-1						
Colour, True		10.3	9.3		CU	10	400	03-JUN-11
WG1290376-4	DUP	L1011306-2						
Colour, True		94.2	96.5		CU	2.4	20	03-JUN-11
WG1290376-2	LCS							
Colour, True			98		%		85-115	03-JUN-11
WG1290376-1	MB							
Colour, True			<5.0		CU		5	03-JUN-11
CONSULT-BOD-CBOD-WP								
	Water							
Batch	R2199473							
WG1287921-3	DUP	L1010952-2						
BOD Carbonaceous		1.2	1.1		mg/L	8.9	400	06-JUN-11
WG1287921-2	IRM	61-GG						
BOD Carbonaceous			92		%		85-115	06-JUN-11
WG1287921-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	06-JUN-11
EC-WP								
	Water							
Batch	R2198424							
WG1289782-1	CVS							
Conductivity			99		%		90-110	02-JUN-11
WG1289782-7	DUP	L1011536-1						
Conductivity		1330	1330		umhos/cm	0.13	10	02-JUN-11
Batch	R2200319							
WG1291926-1	CVS							
Conductivity			100		%		90-110	06-JUN-11
WG1291926-2	DUP	L1011291-4						
Conductivity		1.20	1.19		umhos/cm	0.84	400	06-JUN-11
Batch	R2202605							
WG1294267-1	CVS							
Conductivity			101		%		90-110	11-JUN-11
WG1294267-2	DUP	L1011291-1						
Conductivity		0.84	0.84		umhos/cm	0.0	400	11-JUN-11
F-IC-WP								
	Water							
Batch	R2197723							
WG1289025-3	DUP	L1011291-3						
Fluoride		<0.10	<0.10	RPD-NA	mg/L	N/A	20	01-JUN-11
WG1289025-2	LCS							



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-WP								
	Water							
Batch	R2197723							
WG1289025-2	LCS							
Fluoride			102		%		85-115	01-JUN-11
WG1289025-1	MB							
Fluoride			<0.10		mg/L		0.1	01-JUN-11
WG1289025-4	MS	L1011291-3						
Fluoride			104		%		75-125	01-JUN-11
HG-D-CVAF-WP								
	Water							
Batch	R2203120							
WG1294817-3	DUP	L1010336-3						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
WG1294817-5	DUP	L1011291-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
WG1294817-2	LCS							
Mercury (Hg)-Dissolved			92		%		80-120	08-JUN-11
Mercury (Hg)-Dissolved			92		%		80-120	08-JUN-11
WG1294816-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
WG1294817-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
WG1294817-4	MS	L1010336-3						
Mercury (Hg)-Dissolved			99		%		70-130	08-JUN-11
Mercury (Hg)-Dissolved			99		%		70-130	08-JUN-11
WG1294817-6	MS	L1011291-1						
Mercury (Hg)-Dissolved			91		%		70-130	08-JUN-11
Mercury (Hg)-Dissolved			91		%		70-130	08-JUN-11
HG-T-CVAF-WP								
	Water							
Batch	R2198344							
WG1289697-3	DUP	L1009186-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-5	DUP	L1010393-5						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
Water								
Batch	R2198344							
WG1289697-5	DUP	L1010393-5						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-2	LCS							
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
WG1289697-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
WG1289697-4	MS	L1009186-1						
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
WG1289697-6	MS	L1010393-5						
Mercury (Hg)-Total			115		%		70-130	02-JUN-11
Mercury (Hg)-Total			115		%		70-130	02-JUN-11
MET-D-L-MS-WP								
Water								
Batch	R2199629							
WG1291143-4	DUP	WG1291143-3						
Aluminum (Al)-Dissolved		0.0055	0.0051		mg/L	7.3	400	04-JUN-11
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	04-JUN-11
Arsenic (As)-Dissolved		0.00357	0.00361		mg/L	1.2	20	04-JUN-11
Barium (Ba)-Dissolved		0.0508	0.0506		mg/L	0.51	20	04-JUN-11
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	04-JUN-11
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	04-JUN-11
Boron (B)-Dissolved		0.023	0.025		mg/L	8.1	400	04-JUN-11
Cadmium (Cd)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	04-JUN-11
Calcium (Ca)-Dissolved		96.6	96.6		mg/L	0.0	20	04-JUN-11
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	04-JUN-11
Chromium (Cr)-Dissolved		0.0050	0.0054		mg/L	8.2	400	04-JUN-11
Cobalt (Co)-Dissolved		0.00045	0.00046		mg/L	2.4	400	04-JUN-11
Copper (Cu)-Dissolved		0.00042	0.00046		mg/L	8.4	400	04-JUN-11
Iron (Fe)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	04-JUN-11
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	400	04-JUN-11
Lithium (Li)-Dissolved		0.0180	0.0175		mg/L	2.7	20	04-JUN-11
Magnesium (Mg)-Dissolved		24.4	24.4		mg/L	0.31	20	04-JUN-11
Manganese (Mn)-Dissolved		0.273	0.274		mg/L	0.50	20	04-JUN-11



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2199629							
WG1291143-4	DUP	WG1291143-3						
Molybdenum (Mo)-Dissolved		0.00075	0.00080		mg/L	7.0	20	04-JUN-11
Nickel (Ni)-Dissolved		0.0011	0.0011		mg/L	6.4	400	04-JUN-11
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	04-JUN-11
Potassium (K)-Dissolved		3.79	3.78		mg/L	0.21	20	04-JUN-11
Rubidium (Rb)-Dissolved		0.00131	0.00133		mg/L	1.6	20	04-JUN-11
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	04-JUN-11
Silicon (Si)-Dissolved		9.53	9.39		mg/L	1.5	20	04-JUN-11
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	04-JUN-11
Sodium (Na)-Dissolved		5.65	5.60		mg/L	0.81	20	04-JUN-11
Strontium (Sr)-Dissolved		0.160	0.162		mg/L	1.0	20	04-JUN-11
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	04-JUN-11
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	04-JUN-11
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	04-JUN-11
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	04-JUN-11
Titanium (Ti)-Dissolved		0.00041	0.00034		mg/L	18	400	04-JUN-11
Tungsten (W)-Dissolved		0.00197	0.00195		mg/L	1.2	20	04-JUN-11
Uranium (U)-Dissolved		0.00044	0.00043		mg/L	1.8	400	04-JUN-11
Vanadium (V)-Dissolved		0.00357	0.00382		mg/L	6.6	20	04-JUN-11
Zinc (Zn)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	04-JUN-11
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	04-JUN-11
WG1291143-2	LCS							
Aluminum (Al)-Dissolved			99		%		80-120	03-JUN-11
Antimony (Sb)-Dissolved			98		%		80-120	03-JUN-11
Arsenic (As)-Dissolved			98		%		80-120	03-JUN-11
Barium (Ba)-Dissolved			102		%		80-120	03-JUN-11
Beryllium (Be)-Dissolved			100		%		80-120	03-JUN-11
Bismuth (Bi)-Dissolved			97		%		80-120	03-JUN-11
Boron (B)-Dissolved			98		%		80-120	03-JUN-11
Cadmium (Cd)-Dissolved			101		%		80-120	03-JUN-11
Calcium (Ca)-Dissolved			97		%		80-120	03-JUN-11
Cesium (Cs)-Dissolved			104		%		80-120	03-JUN-11
Chromium (Cr)-Dissolved			101		%		80-120	03-JUN-11
Cobalt (Co)-Dissolved			102		%		80-120	03-JUN-11



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 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2199629							
WG1291143-2	LCS							
Copper (Cu)-Dissolved			97		%		80-120	03-JUN-11
Iron (Fe)-Dissolved			99		%		80-120	03-JUN-11
Lead (Pb)-Dissolved			98		%		80-120	03-JUN-11
Lithium (Li)-Dissolved			102		%		80-120	03-JUN-11
Magnesium (Mg)-Dissolved			100		%		80-120	03-JUN-11
Manganese (Mn)-Dissolved			101		%		80-120	03-JUN-11
Molybdenum (Mo)-Dissolved			108		%		80-120	03-JUN-11
Nickel (Ni)-Dissolved			96		%		80-120	03-JUN-11
Phosphorus (P)-Dissolved			99		%		80-120	03-JUN-11
Potassium (K)-Dissolved			100		%		80-120	03-JUN-11
Rubidium (Rb)-Dissolved			106		%		80-120	03-JUN-11
Selenium (Se)-Dissolved			95		%		80-120	03-JUN-11
Silicon (Si)-Dissolved			100		%		80-120	03-JUN-11
Silver (Ag)-Dissolved			100		%		80-120	03-JUN-11
Sodium (Na)-Dissolved			109		%		80-120	03-JUN-11
Strontium (Sr)-Dissolved			107		%		80-120	03-JUN-11
Tellurium (Te)-Dissolved			90		%		80-120	03-JUN-11
Thallium (Tl)-Dissolved			100		%		80-120	03-JUN-11
Thorium (Th)-Dissolved			102		%		80-120	03-JUN-11
Tin (Sn)-Dissolved			107		%		80-120	03-JUN-11
Titanium (Ti)-Dissolved			100		%		80-120	03-JUN-11
Tungsten (W)-Dissolved			100		%		80-120	03-JUN-11
Uranium (U)-Dissolved			106		%		80-120	03-JUN-11
Vanadium (V)-Dissolved			105		%		80-120	03-JUN-11
Zinc (Zn)-Dissolved			93		%		80-120	03-JUN-11
Zirconium (Zr)-Dissolved			104		%		80-120	03-JUN-11
WG1291143-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.02	03-JUN-11
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.001	03-JUN-11
Arsenic (As)-Dissolved			<0.00020		mg/L		0.001	03-JUN-11
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0005	03-JUN-11
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.001	03-JUN-11
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0005	03-JUN-11
Boron (B)-Dissolved			<0.010		mg/L		0.03	03-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2199629							
WG1291143-1	MB							
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.0002	03-JUN-11
Calcium (Ca)-Dissolved			<0.050		mg/L		0.2	03-JUN-11
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0005	03-JUN-11
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	03-JUN-11
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0005	03-JUN-11
Copper (Cu)-Dissolved			<0.00020		mg/L		0.002	03-JUN-11
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	03-JUN-11
Lead (Pb)-Dissolved			<0.000090		mg/L		0.001	03-JUN-11
Lithium (Li)-Dissolved			<0.0020		mg/L		0.01	03-JUN-11
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.05	03-JUN-11
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.001	03-JUN-11
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0005	03-JUN-11
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.002	03-JUN-11
Phosphorus (P)-Dissolved			<0.10		mg/L		0.5	03-JUN-11
Potassium (K)-Dissolved			<0.020		mg/L		0.1	03-JUN-11
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0005	03-JUN-11
Selenium (Se)-Dissolved			<0.0010		mg/L		0.005	03-JUN-11
Silicon (Si)-Dissolved			<0.050		mg/L		0.3	03-JUN-11
Silver (Ag)-Dissolved			<0.00010		mg/L		0.001	03-JUN-11
Sodium (Na)-Dissolved			<0.020		mg/L		0.05	03-JUN-11
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0005	03-JUN-11
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.001	03-JUN-11
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.005	03-JUN-11
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	03-JUN-11
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0006	03-JUN-11
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.001	03-JUN-11
Tungsten (W)-Dissolved			<0.00020		mg/L		0.002	03-JUN-11
Uranium (U)-Dissolved			<0.00010		mg/L		0.0005	03-JUN-11
Vanadium (V)-Dissolved			<0.00020		mg/L		0.002	03-JUN-11
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.02	03-JUN-11
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.001	03-JUN-11

MET-T-L-MS-WP **Water**



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2198215							
WG1288813-4	DUP	WG1288813-3						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	02-JUN-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Arsenic (As)-Total		0.00132	0.00133		mg/L	1.1	20	02-JUN-11
Barium (Ba)-Total		0.0267	0.0269		mg/L	0.93	20	02-JUN-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Boron (B)-Total		0.015	0.014		mg/L	6.2	400	02-JUN-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	02-JUN-11
Calcium (Ca)-Total		45.0	43.4		mg/L	3.5	20	02-JUN-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Copper (Cu)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Iron (Fe)-Total		0.17	0.17		mg/L	0.74	400	02-JUN-11
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	400	02-JUN-11
Lithium (Li)-Total		0.0056	0.0054		mg/L	3.5	400	02-JUN-11
Magnesium (Mg)-Total		13.4	13.1		mg/L	2.4	20	02-JUN-11
Manganese (Mn)-Total		0.0421	0.0435		mg/L	3.2	20	02-JUN-11
Molybdenum (Mo)-Total		0.00039	0.00039		mg/L	0.77	400	02-JUN-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	02-JUN-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	02-JUN-11
Potassium (K)-Total		1.54	1.47		mg/L	4.2	20	02-JUN-11
Rubidium (Rb)-Total		0.00116	0.00115		mg/L	1.0	20	02-JUN-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Silicon (Si)-Total		3.99	3.81		mg/L	4.5	20	02-JUN-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Sodium (Na)-Total		51.7	51.3		mg/L	0.76	20	02-JUN-11
Strontium (Sr)-Total		0.0853	0.0849		mg/L	0.45	20	02-JUN-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	02-JUN-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Titanium (Ti)-Total		<0.00020	<0.00020		mg/L			02-JUN-11



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 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2198215							
WG1288813-4	DUP	WG1288813-3						
Titanium (Ti)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Uranium (U)-Total		0.00031	0.00032		mg/L	2.9	400	02-JUN-11
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	02-JUN-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	02-JUN-11
WG1288813-6	DUP	WG1288813-5						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	02-JUN-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Arsenic (As)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Barium (Ba)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	02-JUN-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	02-JUN-11
Calcium (Ca)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	02-JUN-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Copper (Cu)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Iron (Fe)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	02-JUN-11
Lithium (Li)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	02-JUN-11
Magnesium (Mg)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	02-JUN-11
Manganese (Mn)-Total		<0.00030	<0.00030	RPD-NA	mg/L	N/A	400	02-JUN-11
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	02-JUN-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	02-JUN-11
Potassium (K)-Total		<0.020	<0.020	RPD-NA	mg/L	N/A	400	02-JUN-11
Rubidium (Rb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Silicon (Si)-Total		<0.050	<0.050	RPD-NA	mg/L	N/A	400	02-JUN-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Sodium (Na)-Total		<0.030	<0.030	RPD-NA	mg/L	N/A	400	02-JUN-11



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 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2198215							
WG1288813-6	DUP	WG1288813-5						
Strontium (Sr)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	02-JUN-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Titanium (Ti)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	02-JUN-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	02-JUN-11
WG1288813-2	LCS							
Aluminum (Al)-Total			105		%		80-120	02-JUN-11
Antimony (Sb)-Total			96		%		80-120	02-JUN-11
Arsenic (As)-Total			100		%		80-120	02-JUN-11
Barium (Ba)-Total			104		%		80-120	02-JUN-11
Beryllium (Be)-Total			100		%		80-120	02-JUN-11
Bismuth (Bi)-Total			100		%		80-120	02-JUN-11
Boron (B)-Total			98		%		80-120	02-JUN-11
Cadmium (Cd)-Total			103		%		80-120	02-JUN-11
Calcium (Ca)-Total			102		%		80-120	02-JUN-11
Cesium (Cs)-Total			103		%		80-120	02-JUN-11
Chromium (Cr)-Total			103		%		80-120	02-JUN-11
Cobalt (Co)-Total			108		%		80-120	02-JUN-11
Copper (Cu)-Total			103		%		80-120	02-JUN-11
Iron (Fe)-Total			105		%		80-120	02-JUN-11
Lead (Pb)-Total			99		%		80-120	02-JUN-11
Lithium (Li)-Total			100		%		80-120	02-JUN-11
Magnesium (Mg)-Total			101		%		80-120	02-JUN-11
Manganese (Mn)-Total			105		%		80-120	02-JUN-11
Molybdenum (Mo)-Total			102		%		80-120	02-JUN-11
Nickel (Ni)-Total			101		%		80-120	02-JUN-11
Phosphorus (P)-Total			109		%		80-120	02-JUN-11



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2198215							
WG1288813-2	LCS							
Potassium (K)-Total			101		%		80-120	02-JUN-11
Rubidium (Rb)-Total			104		%		80-120	02-JUN-11
Selenium (Se)-Total			102		%		80-120	02-JUN-11
Silicon (Si)-Total			104		%		80-120	02-JUN-11
Silver (Ag)-Total			99		%		80-120	02-JUN-11
Sodium (Na)-Total			104		%		80-120	02-JUN-11
Strontium (Sr)-Total			102		%		80-120	02-JUN-11
Tellurium (Te)-Total			101		%		80-120	02-JUN-11
Thallium (Tl)-Total			100		%		80-120	02-JUN-11
Thorium (Th)-Total			97		%		70-130	02-JUN-11
Tin (Sn)-Total			101		%		80-120	02-JUN-11
Titanium (Ti)-Total			101		%		80-120	02-JUN-11
Tungsten (W)-Total			100		%		80-120	02-JUN-11
Uranium (U)-Total			104		%		80-120	02-JUN-11
Vanadium (V)-Total			104		%		80-120	02-JUN-11
Zinc (Zn)-Total			101		%		80-120	02-JUN-11
Zirconium (Zr)-Total			101		%		80-120	02-JUN-11
WG1288813-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.02	02-JUN-11
Antimony (Sb)-Total			<0.00020		mg/L		0.001	02-JUN-11
Arsenic (As)-Total			<0.00020		mg/L		0.001	02-JUN-11
Barium (Ba)-Total			<0.00020		mg/L		0.0005	02-JUN-11
Beryllium (Be)-Total			<0.00020		mg/L		0.001	02-JUN-11
Bismuth (Bi)-Total			<0.00020		mg/L		0.0005	02-JUN-11
Boron (B)-Total			<0.010		mg/L		0.03	02-JUN-11
Cadmium (Cd)-Total			<0.000010		mg/L		0.0002	02-JUN-11
Calcium (Ca)-Total			<0.10		mg/L		0.2	02-JUN-11
Cesium (Cs)-Total			<0.00010		mg/L		0.0005	02-JUN-11
Chromium (Cr)-Total			<0.0010		mg/L		0.002	02-JUN-11
Cobalt (Co)-Total			<0.00020		mg/L		0.0005	02-JUN-11
Copper (Cu)-Total			<0.00020		mg/L		0.002	02-JUN-11
Iron (Fe)-Total			<0.10		mg/L		0.1	02-JUN-11
Lead (Pb)-Total			<0.000090		mg/L		0.001	02-JUN-11
Lithium (Li)-Total			<0.0020		mg/L		0.002	02-JUN-11



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2198215							
WG1288813-1	MB							
Magnesium (Mg)-Total			<0.010		mg/L		0.05	02-JUN-11
Manganese (Mn)-Total			<0.00030		mg/L		0.001	02-JUN-11
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0005	02-JUN-11
Nickel (Ni)-Total			<0.0020		mg/L		0.002	02-JUN-11
Phosphorus (P)-Total			<0.20		mg/L		0.5	02-JUN-11
Potassium (K)-Total			<0.020		mg/L		0.1	02-JUN-11
Rubidium (Rb)-Total			<0.00020		mg/L		0.0005	02-JUN-11
Selenium (Se)-Total			<0.0010		mg/L		0.005	02-JUN-11
Silicon (Si)-Total			<0.050		mg/L		0.3	02-JUN-11
Silver (Ag)-Total			<0.00010		mg/L		0.001	02-JUN-11
Sodium (Na)-Total			<0.030		mg/L		0.05	02-JUN-11
Strontium (Sr)-Total			<0.00010		mg/L		0.0005	02-JUN-11
Tellurium (Te)-Total			<0.00020		mg/L		0.001	02-JUN-11
Thallium (Tl)-Total			<0.00010		mg/L		0.005	02-JUN-11
Thorium (Th)-Total			<0.00010		mg/L		0.0001	02-JUN-11
Tin (Sn)-Total			<0.00020		mg/L		0.0006	02-JUN-11
Titanium (Ti)-Total			<0.00020		mg/L		0.001	02-JUN-11
Tungsten (W)-Total			<0.0010		mg/L		0.002	02-JUN-11
Uranium (U)-Total			<0.00010		mg/L		0.0005	02-JUN-11
Vanadium (V)-Total			<0.00020		mg/L		0.002	02-JUN-11
Zinc (Zn)-Total			<0.0050		mg/L		0.02	02-JUN-11
Zirconium (Zr)-Total			<0.00040		mg/L		0.001	02-JUN-11
N-TOTKJ-WP		Water						
Batch	R2201491							
WG1293094-1	CVS							
Total Kjeldahl Nitrogen			96		%		90-110	09-JUN-11
WG1288785-4	DUP	L1011274-2						
Total Kjeldahl Nitrogen		0.80	0.84		mg/L	5.0	20	09-JUN-11
WG1288785-7	DUP	L1011238-1						
Total Kjeldahl Nitrogen		0.38	0.33		mg/L	14	20	09-JUN-11
WG1288785-2	LCS							
Total Kjeldahl Nitrogen			95		%		75-125	09-JUN-11
WG1288785-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	09-JUN-11
WG1288785-5	MB							



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N-TOTKJ-WP								
	Water							
Batch	R2201491							
WG1288785-5	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	09-JUN-11
WG1288785-3	MS	L1011274-2						
Total Kjeldahl Nitrogen			97		%		70-130	09-JUN-11
WG1288785-6	MS	L1011238-1						
Total Kjeldahl Nitrogen			97		%		70-130	09-JUN-11
NH3-COL-WP								
	Water							
Batch	R2202824							
WG1294526-3	DUP	L1015768-1						
Ammonia as N			0.87		mg/L	0.20	20	10-JUN-11
WG1294526-2	LCS							
Ammonia as N			98		%		85-115	10-JUN-11
WG1294526-1	MB							
Ammonia as N			<0.050		mg/L		0.05	10-JUN-11
WG1294526-4	MS	L1012940-7						
Ammonia as N			115		%		75-125	10-JUN-11
WG1294526-5	MS	L1012248-1						
Ammonia as N			100		%		75-125	10-JUN-11
NO2-IC-WP								
	Water							
Batch	R2197723							
WG1289025-3	DUP	L1011291-3						
Nitrite-N			<0.050	RPD-NA	mg/L	N/A	20	01-JUN-11
WG1289025-2	LCS							
Nitrite-N			103		%		85-115	01-JUN-11
WG1289025-1	MB							
Nitrite-N			<0.050		mg/L		0.05	01-JUN-11
WG1289025-4	MS	L1011291-3						
Nitrite-N			95		%		75-125	01-JUN-11
NO3-IC-WP								
	Water							
Batch	R2197723							
WG1289025-3	DUP	L1011291-3						
Nitrate-N			<0.050	RPD-NA	mg/L	N/A	20	01-JUN-11
WG1289025-2	LCS							
Nitrate-N			99		%		85-115	01-JUN-11
WG1289025-1	MB							
Nitrate-N			<0.050		mg/L		0.05	01-JUN-11
WG1289025-4	MS	L1011291-3						



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-IC-WP								
Water								
Batch	R2197723							
WG1289025-4	MS	L1011291-3						
Nitrate-N			94		%		75-125	01-JUN-11
P-T-COL-WP								
Water								
Batch	R2197462							
WG1288518-3	DUP	L1011388-2						
Phosphorus (P)-Total		0.164	0.162		mg/L	1.2	20	02-JUN-11
WG1288518-4	DUP	L1011423-2						
Phosphorus (P)-Total		12.7	12.7		mg/L	0.0	20	02-JUN-11
WG1288518-5	DUP	L1011274-1						
Phosphorus (P)-Total		18.8	17.0		mg/L	10	20	02-JUN-11
WG1288518-2	LCS							
Phosphorus (P)-Total			103		%		80-120	02-JUN-11
WG1288518-1	MB							
Phosphorus (P)-Total			<0.010		mg/L		0.01	02-JUN-11
WG1288518-6	MS	L1011230-2						
Phosphorus (P)-Total			87		%		70-130	02-JUN-11
WG1288518-7	MS	L1011274-3						
Phosphorus (P)-Total			106		%		70-130	02-JUN-11
WG1288518-8	MS	L1011528-1						
Phosphorus (P)-Total			102		%		70-130	02-JUN-11
PH-WP								
Water								
Batch	R2198424							
WG1289782-4	DUP	L1011952-6						
pH		8.26	8.27	J	pH units	0.01	0.2	02-JUN-11
WG1289782-7	DUP	L1011536-1						
pH		7.74	7.82	J	pH units	0.08	0.2	02-JUN-11
WG1289782-2	LCS							
pH			7.41		pH units		7.3-7.5	02-JUN-11
SIO2-L-COL-WP								
Water								
Batch	R2202013							
WG1293531-5	DUP	L1010336-2						
Silica, Reactive (as SiO2)		5.20	5.03		mg/L	3.5	20	10-JUN-11
WG1293531-6	DUP	L1011306-1						
Silica, Reactive (as SiO2)		0.185	0.185		mg/L	0.11	20	10-JUN-11
WG1293531-2	LCS							
Silica, Reactive (as SiO2)			107		%		85-115	10-JUN-11
WG1293531-1	MB							



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SIO2-L-COL-WP								
	Water							
Batch	R2202013							
WG1293531-1	MB							
Silica, Reactive (as SiO2)			<0.0050		mg/L		0.005	10-JUN-11
WG1293531-3	MS	L1011291-1						
Silica, Reactive (as SiO2)			122		%		75-125	10-JUN-11
WG1293531-4	MS	L1012522-3						
Silica, Reactive (as SiO2)			112		%		75-125	10-JUN-11
SO4-IC-WP								
	Water							
Batch	R2197723							
WG1289025-3	DUP	L1011291-3						
Sulfate		1.15	1.15		mg/L	0.078	20	01-JUN-11
WG1289025-2	LCS							
Sulfate			101		%		85-115	01-JUN-11
WG1289025-1	MB							
Sulfate			<0.50		mg/L		0.5	01-JUN-11
WG1289025-4	MS	L1011291-3						
Sulfate			99		%		75-125	01-JUN-11
SOLIDS-TDS-WP								
	Water							
Batch	R2199134							
WG1289359-2	CVS							
Total Dissolved Solids			101		%		85-115	03-JUN-11
WG1289359-3	DUP	L1011302-1						
Total Dissolved Solids		330	332		mg/L	0.60	20	03-JUN-11
WG1289359-4	DUP	L1011359-1						
Total Dissolved Solids		1320	1330		mg/L	0.60	20	03-JUN-11
WG1289359-9	DUP	L1012391-1						
Total Dissolved Solids		1230	1330		mg/L	7.8	20	03-JUN-11
WG1289359-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	03-JUN-11
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2199134							
WG1289359-2	CVS							
Total Suspended Solids			94		%		85-115	03-JUN-11
WG1289359-10	DUP	L1012400-9						
Total Suspended Solids		174	206		mg/L	17	20	03-JUN-11
WG1289359-3	DUP	L1011302-1						
Total Suspended Solids		7.0	8.0		mg/L	13	400	03-JUN-11
WG1289359-4	DUP	L1011359-1						



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2199134							
WG1289359-4	DUP	L1011359-1						
Total Suspended Solids		50.0	57.5		mg/L	14	20	03-JUN-11
WG1289359-6	DUP	L1012187-2						
Total Suspended Solids		172	166		mg/L	3.6	20	03-JUN-11
WG1289359-9	DUP	L1012391-1						
Total Suspended Solids		540	610		mg/L	12	20	03-JUN-11
WG1289359-1	MB							
Total Suspended Solids			<5.0		mg/L		5	03-JUN-11
TURBIDITY-WP								
	Water							
Batch	R2197853							
WG1289220-3	DUP	L1011238-2						
Turbidity		1.10	1.05		NTU	4.7	15	01-JUN-11
WG1289220-2	LCS							
Turbidity			100		%		85-115	01-JUN-11
WG1289220-1	MB							
Turbidity			<0.10		NTU		0.1	01-JUN-11

Quality Control Report

Workorder: L1011291

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Turbidity							
	1	29-MAY-11 12:00	01-JUN-11 17:52	48	78	hours	EHTR
	2	29-MAY-11 15:41	01-JUN-11 17:52	48	74	hours	EHTR
	3	29-MAY-11 10:35	01-JUN-11 17:52	48	79	hours	EHTR
	4	29-MAY-11 10:35	01-JUN-11 17:52	48	79	hours	EHTR
pH							
	1	29-MAY-11 12:00	02-JUN-11 15:05	0.25	99	hours	EHTR-FM
	2	29-MAY-11 15:41	02-JUN-11 15:05	0.25	96	hours	EHTR-FM
	3	29-MAY-11 10:35	02-JUN-11 15:05	0.25	101	hours	EHTR-FM
	4	29-MAY-11 10:35	02-JUN-11 15:05	0.25	101	hours	EHTR-FM
Anions and Nutrients							
Bromide							
	1	29-MAY-11 12:00	01-JUN-11 15:26	48	75	hours	EHTR
	2	29-MAY-11 15:41	01-JUN-11 15:26	48	72	hours	EHTR
	3	29-MAY-11 10:35	01-JUN-11 15:26	48	77	hours	EHTR
	4	29-MAY-11 10:35	01-JUN-11 15:26	48	77	hours	EHTR
Nitrate as N							
	1	29-MAY-11 12:00	01-JUN-11 15:26	48	75	hours	EHTR
	2	29-MAY-11 15:41	01-JUN-11 15:26	48	72	hours	EHTR
	3	29-MAY-11 10:35	01-JUN-11 15:26	48	77	hours	EHTR
	4	29-MAY-11 10:35	01-JUN-11 15:26	48	77	hours	EHTR
Nitrite as N							
	1	29-MAY-11 12:00	01-JUN-11 15:26	48	75	hours	EHTR
	2	29-MAY-11 15:41	01-JUN-11 15:26	48	72	hours	EHTR
	3	29-MAY-11 10:35	01-JUN-11 15:26	48	77	hours	EHTR
	4	29-MAY-11 10:35	01-JUN-11 15:26	48	77	hours	EHTR
Phosphorus, Total							
	1	29-MAY-11 12:00	01-JUN-11 16:55	48	77	hours	EHTR
	2	29-MAY-11 15:41	01-JUN-11 16:55	48	73	hours	EHTR
	3	29-MAY-11 10:35	01-JUN-11 16:55	48	78	hours	EHTR
	4	29-MAY-11 10:35	01-JUN-11 16:55	48	78	hours	EHTR
Aggregate Organics							
Carbonaceous BOD							
	1	29-MAY-11 12:00	01-JUN-11 08:00	48	68	hours	EHTR
	2	29-MAY-11 15:41	01-JUN-11 08:00	48	64	hours	EHTR
	3	29-MAY-11 10:35	01-JUN-11 08:00	48	69	hours	EHTR
	4	29-MAY-11 10:35	01-JUN-11 08:00	48	69	hours	EHTR
Organic Parameters							
Chlorophyll a, Pheophytin by fluorometry							
	1	29-MAY-11 12:00	01-JUN-11 08:30	48	68	hours	EHTR
	2	29-MAY-11 15:41	01-JUN-11 08:30	48	65	hours	EHTR
	3	29-MAY-11 10:35	01-JUN-11 08:30	48	70	hours	EHTR
	4	29-MAY-11 10:35	01-JUN-11 08:30	48	70	hours	EHTR

Legend & Qualifier Definitions:

- EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
- EHTR: Exceeded ALS recommended hold time prior to sample receipt.
- EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
- EHT: Exceeded ALS recommended hold time prior to analysis.
- Rec. HT: ALS recommended hold time (see units).

Notes*:
 Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
 Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is

Quality Control Report

Workorder: L1011291

Report Date: 14-JUN-11

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used for calculation purposes. Samples for L1011291 were received on 01-JUN-11 08:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Report To
 Company: AECOM -W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone: _____ Fax: _____

Standard Other
 PDF Excel Digital Fax
 Email 1: cliff.samoiloff@aecom.com
 Email 2: shawna.kiantanson@aecom.com
 Email 3: _____

Service Requested (Rush for routine analysis subject to availability)
 Regular (Standard Turnaround Times - Business Days)
 Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
 Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
 Same Day or Weekend Emergency - Contact ALS to Confirm TAT

Analysis Request
 Please indicate below Filtered, Preserved or both (F, P, F/P)

Sample #	Lab Work Order # (lab use only)	Sample Identification (This description will appear on the report)	ALS Contact:		Sampler:		Sample Type	Number of Containers
			Date (dd-mm-yy)	Time (hh:mm)	Date (dd-mm-yy)	Time (hh:mm)		
		TRB-09	29MAY11	1200			water	6
		ARL-01	29MAY11	1541			"	6
		ULL-01	"	1035			"	6
		FLB-02	"	1035			"	6

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab.

Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: _____ Date: _____ Time: _____ Temperature: 70 °C

Received by: _____ Date: _____ Time: _____

SHIPMENT RECEPTION (lab use only) / SHIPMENT VERIFICATION (lab use only)

Verified by: _____ Date: _____ Time: _____

Observations: Yes / No ? If Yes add SIF



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 01-JUN-11
Report Date: 14-JUN-11 13:04 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1011302
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-200
Legal Site Desc:
C of C Numbers:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011302-1 ANC-01							
Sampled By: SK, MH on 30-MAY-11 @ 10:07							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	16.3		0.50	mg/L		01-JUN-11	R2197723
Fluoride							
Fluoride	0.23		0.10	mg/L		01-JUN-11	R2197723
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Sulfate							
Sulfate	171		0.50	mg/L		01-JUN-11	R2197723
Miscellaneous Parameters							
Acidity (as CaCO3)	2.3		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		10-JUN-11	R2202824
Bromide (Br)	<0.10		0.10	mg/L		01-JUN-11	R2197723
BOD Carbonaceous	2.1		1.0	mg/L	01-JUN-11	06-JUN-11	R2199473
Colour, True	11.5		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	9.3		1.0	mg/L		13-JUN-11	R2203318
Hardness (as CaCO3)	223		0.30	mg/L		03-JUN-11	
Hardness (as CaCO3)	226		0.20	mg/L		08-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		01-JUN-11	
Phosphorus (P)-Total	0.014		0.010	mg/L		02-JUN-11	R2197462
Silica, Reactive (as SiO2)	0.159		0.0050	mg/L		10-JUN-11	R2202013
Total Dissolved Solids	330		5.0	mg/L		03-JUN-11	R2199134
Total Kjeldahl Nitrogen	0.60		0.20	mg/L	06-JUN-11	09-JUN-11	R2201491
Total Organic Carbon	9.5		1.0	mg/L		13-JUN-11	R2203318
Total Suspended Solids	7.0		5.0	mg/L		03-JUN-11	R2199134
Turbidity	3.23		0.10	NTU		01-JUN-11	R2197853
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.204		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Antimony (Sb)-Total	0.0106		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Arsenic (As)-Total	0.00309		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Barium (Ba)-Total	0.0213		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Boron (B)-Total	0.021		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cadmium (Cd)-Total	0.000077		0.000010	mg/L	02-JUN-11	02-JUN-11	R2198215
Calcium (Ca)-Total	75.4		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cobalt (Co)-Total	0.00027		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Copper (Cu)-Total	0.00594		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Iron (Fe)-Total	0.31		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Lead (Pb)-Total	0.000269		0.000090	mg/L	02-JUN-11	02-JUN-11	R2198215
Lithium (Li)-Total	0.0053		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215
Magnesium (Mg)-Total	8.41		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Manganese (Mn)-Total	0.0217		0.00030	mg/L	02-JUN-11	02-JUN-11	R2198215
Molybdenum (Mo)-Total	0.00078		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011302-1 ANC-01							
Sampled By: SK, MH on 30-MAY-11 @ 10:07							
Matrix: WATER							
Total Metals by ICP-MS							
Phosphorus (P)-Total	<0.20		0.20	mg/L	02-JUN-11	02-JUN-11	R2198215
Potassium (K)-Total	6.28		0.020	mg/L	02-JUN-11	02-JUN-11	R2198215
Rubidium (Rb)-Total	0.00421		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Selenium (Se)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Silicon (Si)-Total	0.491		0.050	mg/L	02-JUN-11	02-JUN-11	R2198215
Silver (Ag)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Sodium (Na)-Total	9.88		0.030	mg/L	02-JUN-11	02-JUN-11	R2198215
Strontium (Sr)-Total	0.175		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Thorium (Th)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tin (Sn)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Titanium (Ti)-Total	0.0119		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Tungsten (W)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Uranium (U)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Vanadium (V)-Total	0.00065		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Zinc (Zn)-Total	0.0608		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	02-JUN-11	02-JUN-11	R2198215
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0070		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Antimony (Sb)-Dissolved	0.0111		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Arsenic (As)-Dissolved	0.00289		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Barium (Ba)-Dissolved	0.0195		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Boron (B)-Dissolved	0.026		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	01-JUN-11	03-JUN-11	R2199629
Calcium (Ca)-Dissolved	76.8		0.050	mg/L	01-JUN-11	07-JUN-11	R2200454
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Copper (Cu)-Dissolved	0.00307		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	01-JUN-11	03-JUN-11	R2199629
Lithium (Li)-Dissolved	0.0082		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Magnesium (Mg)-Dissolved	8.35		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Manganese (Mn)-Dissolved	0.00159		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Molybdenum (Mo)-Dissolved	0.00088		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Potassium (K)-Dissolved	5.88		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Rubidium (Rb)-Dissolved	0.00360		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Selenium (Se)-Dissolved	0.0013		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Silicon (Si)-Dissolved	0.122		0.050	mg/L	01-JUN-11	03-JUN-11	R2199629
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Sodium (Na)-Dissolved	10.5		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Strontium (Sr)-Dissolved	0.178		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011302-1 ANC-01							
Sampled By: SK, MH on 30-MAY-11 @ 10:07							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Titanium (Ti)-Dissolved	0.00206		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Vanadium (V)-Dissolved	0.00072		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zinc (Zn)-Dissolved	0.0332		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	01-JUN-11	03-JUN-11	R2199629
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	3.92		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
Phaeophytin a	1.27		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	54.5		1.0	mg/L		02-JUN-11	R2198424
Bicarbonate (HCO3)	66.5		2.0	mg/L		02-JUN-11	R2198424
Carbonate (CO3)	<0.60		0.60	mg/L		02-JUN-11	R2198424
Hydroxide (OH)	<0.40		0.40	mg/L		02-JUN-11	R2198424
Conductivity							
Conductivity	501		0.40	umhos/cm		02-JUN-11	R2198424
pH							
pH	7.86		0.10	pH units		02-JUN-11	R2198424
L1011302-2 TRB-10							
Sampled By: SK, MH on 30-MAY-11 @ 12:00							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		01-JUN-11	R2197723
Fluoride							
Fluoride	<0.10		0.10	mg/L		01-JUN-11	R2197723
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Sulfate							
Sulfate	<0.50		0.50	mg/L		01-JUN-11	R2197723
Miscellaneous Parameters							
Acidity (as CaCO3)	1.2		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		10-JUN-11	R2202824
Bromide (Br)	<0.10		0.10	mg/L		01-JUN-11	R2197723
BOD Carbonaceous	<1.0		1.0	mg/L	01-JUN-11	06-JUN-11	R2199473
Colour, True	<5.0		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	<1.0		1.0	mg/L		11-JUN-11	R2202699
Hardness (as CaCO3)	<0.20		0.20	mg/L		07-JUN-11	
Hardness (as CaCO3)	<0.30		0.30	mg/L		03-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		01-JUN-11	
Phosphorus (P)-Total	<0.010		0.010	mg/L		02-JUN-11	R2197462
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		10-JUN-11	R2202013
Total Dissolved Solids	<5.0		5.0	mg/L		03-JUN-11	R2199134
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	01-JUN-11	06-JUN-11	R2199162
Total Organic Carbon	<1.0		1.0	mg/L		11-JUN-11	R2202699

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011302-2 TRB-10							
Sampled By: SK, MH on 30-MAY-11 @ 12:00							
Matrix: WATER							
Total Suspended Solids	<5.0		5.0	mg/L		03-JUN-11	R2199134
Turbidity	<0.10		0.10	NTU		01-JUN-11	R2197853
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Arsenic (As)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Barium (Ba)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Boron (B)-Total	<0.010		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	02-JUN-11	02-JUN-11	R2198215
Calcium (Ca)-Total	<0.10		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Copper (Cu)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Iron (Fe)-Total	<0.10		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Lead (Pb)-Total	<0.000090		0.000090	mg/L	02-JUN-11	02-JUN-11	R2198215
Lithium (Li)-Total	<0.0020		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215
Magnesium (Mg)-Total	<0.010		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	02-JUN-11	02-JUN-11	R2198215
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215
Phosphorus (P)-Total	<0.20		0.20	mg/L	02-JUN-11	02-JUN-11	R2198215
Potassium (K)-Total	<0.020		0.020	mg/L	02-JUN-11	02-JUN-11	R2198215
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Selenium (Se)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Silicon (Si)-Total	<0.050		0.050	mg/L	02-JUN-11	02-JUN-11	R2198215
Silver (Ag)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Sodium (Na)-Total	<0.030		0.030	mg/L	02-JUN-11	02-JUN-11	R2198215
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Thorium (Th)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tin (Sn)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Tungsten (W)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Uranium (U)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Vanadium (V)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	02-JUN-11	02-JUN-11	R2198215
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Boron (B)-Dissolved	<0.010		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	01-JUN-11	03-JUN-11	R2199629
Calcium (Ca)-Dissolved	0.077		0.050	mg/L	01-JUN-11	03-JUN-11	R2199629
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011302-2 TRB-10							
Sampled By: SK, MH on 30-MAY-11 @ 12:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	01-JUN-11	03-JUN-11	R2199629
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Potassium (K)-Dissolved	<0.020		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	01-JUN-11	03-JUN-11	R2199629
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zinc (Zn)-Dissolved	<0.00020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	01-JUN-11	03-JUN-11	R2199629
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
Phaeophytin a	<0.10		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	1.8		1.0	mg/L		07-JUN-11	R2200310
Bicarbonate (HCO3)	2.2		2.0	mg/L		07-JUN-11	R2200310
Carbonate (CO3)	<0.60		0.60	mg/L		07-JUN-11	R2200310
Hydroxide (OH)	<0.40		0.40	mg/L		07-JUN-11	R2200310
Conductivity							
Conductivity	0.73		0.40	umhos/cm		06-JUN-11	R2200319
pH							
pH	5.89		0.10	pH units		02-JUN-11	R2198424
L1011302-3 DUP-03							
Sampled By: SK, MH on 30-MAY-11 @ 10:08							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	16.4		0.50	mg/L		01-JUN-11	R2197723
Fluoride							
Fluoride	0.23		0.10	mg/L		01-JUN-11	R2197723
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		01-JUN-11	R2197723

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011302-3 DUP-03							
Sampled By: SK, MH on 30-MAY-11 @ 10:08							
Matrix: WATER							
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Sulfate							
Sulfate	171		0.50	mg/L		01-JUN-11	R2197723
Miscellaneous Parameters							
Acidity (as CaCO3)	2.4		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		10-JUN-11	R2202824
Bromide (Br)	<0.10		0.10	mg/L		01-JUN-11	R2197723
BOD Carbonaceous	2.4		1.0	mg/L	01-JUN-11	06-JUN-11	R2199473
Colour, True	11.2		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	9.5		1.0	mg/L		11-JUN-11	R2202699
Hardness (as CaCO3)	224		0.30	mg/L		03-JUN-11	
Hardness (as CaCO3)	225		0.20	mg/L		08-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		01-JUN-11	
Phosphorus (P)-Total	0.013		0.010	mg/L		02-JUN-11	R2197462
Silica, Reactive (as SiO2)	0.128		0.0050	mg/L		10-JUN-11	R2202013
Total Dissolved Solids	340		5.0	mg/L		03-JUN-11	R2199134
Total Kjeldahl Nitrogen	0.50		0.20	mg/L	01-JUN-11	06-JUN-11	R2199162
Total Organic Carbon	9.8		1.0	mg/L		11-JUN-11	R2202699
Total Suspended Solids	<5.0		5.0	mg/L		03-JUN-11	R2199134
Turbidity	2.98		0.10	NTU		01-JUN-11	R2197853
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.223		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Antimony (Sb)-Total	0.0108		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Arsenic (As)-Total	0.00323		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Barium (Ba)-Total	0.0216		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Boron (B)-Total	0.021		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cadmium (Cd)-Total	0.000077		0.000010	mg/L	02-JUN-11	02-JUN-11	R2198215
Calcium (Ca)-Total	75.6		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cobalt (Co)-Total	0.00027		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Copper (Cu)-Total	0.00602		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Iron (Fe)-Total	0.33		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Lead (Pb)-Total	0.000271		0.000090	mg/L	02-JUN-11	02-JUN-11	R2198215
Lithium (Li)-Total	0.0050		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215
Magnesium (Mg)-Total	8.49		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Manganese (Mn)-Total	0.0217		0.00030	mg/L	02-JUN-11	02-JUN-11	R2198215
Molybdenum (Mo)-Total	0.00081		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215
Phosphorus (P)-Total	<0.20		0.20	mg/L	02-JUN-11	02-JUN-11	R2198215
Potassium (K)-Total	6.29		0.020	mg/L	02-JUN-11	02-JUN-11	R2198215
Rubidium (Rb)-Total	0.00431		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Selenium (Se)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Silicon (Si)-Total	0.596		0.050	mg/L	02-JUN-11	02-JUN-11	R2198215
Silver (Ag)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Sodium (Na)-Total	10.1		0.030	mg/L	02-JUN-11	02-JUN-11	R2198215

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011302-3 DUP-03							
Sampled By: SK, MH on 30-MAY-11 @ 10:08							
Matrix: WATER							
Total Metals by ICP-MS							
Strontium (Sr)-Total	0.177		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Thorium (Th)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tin (Sn)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Titanium (Ti)-Total	0.0135		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Tungsten (W)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Uranium (U)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Vanadium (V)-Total	0.00069		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Zinc (Zn)-Total	0.0598		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	02-JUN-11	02-JUN-11	R2198215
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0074		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Antimony (Sb)-Dissolved	0.0111		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Arsenic (As)-Dissolved	0.00289		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Barium (Ba)-Dissolved	0.0198		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Boron (B)-Dissolved	0.027		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	01-JUN-11	03-JUN-11	R2199629
Calcium (Ca)-Dissolved	76.3		0.050	mg/L	01-JUN-11	07-JUN-11	R2200454
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Copper (Cu)-Dissolved	0.00320		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	01-JUN-11	03-JUN-11	R2199629
Lithium (Li)-Dissolved	0.0083		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Magnesium (Mg)-Dissolved	8.44		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Manganese (Mn)-Dissolved	0.00156		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Molybdenum (Mo)-Dissolved	0.00093		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Potassium (K)-Dissolved	5.88		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Rubidium (Rb)-Dissolved	0.00368		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Selenium (Se)-Dissolved	0.0013		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Silicon (Si)-Dissolved	0.117		0.050	mg/L	01-JUN-11	03-JUN-11	R2199629
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Sodium (Na)-Dissolved	10.6		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Strontium (Sr)-Dissolved	0.182		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Titanium (Ti)-Dissolved	0.00215		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Vanadium (V)-Dissolved	0.00070		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zinc (Zn)-Dissolved	0.0340		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	01-JUN-11	03-JUN-11	R2199629
Chlorophyll a, Pheophytin by fluorometry							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011302-3 DUP-03							
Sampled By: SK, MH on 30-MAY-11 @ 10:08							
Matrix: WATER							
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	3.87		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
Phaeophytin a	1.32		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	54.7		1.0	mg/L		02-JUN-11	R2198424
Bicarbonate (HCO3)	66.8		2.0	mg/L		02-JUN-11	R2198424
Carbonate (CO3)	<0.60		0.60	mg/L		02-JUN-11	R2198424
Hydroxide (OH)	<0.40		0.40	mg/L		02-JUN-11	R2198424
Conductivity							
Conductivity	501		0.40	umhos/cm		02-JUN-11	R2198424
pH							
pH	7.86		0.10	pH units		02-JUN-11	R2198424

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B
Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically.			
BR-IC-WP	Water	Bromide	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
CHL,PHEO-FLUORO-WP	Water	Chlorophyll a, Pheophytin by fluorometry	EPA 445.0
Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification.			
CL-IC-WP	Water	Chloride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR
This analysis is carried out using procedures adapted from APHA 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. Colour is pH dependent. Unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit.			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.			
EC-WP	Water	Conductivity	APHA 2510B
Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	HARDNESS CALCULATED
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
F-IC-WP	Water	Fluoride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
		Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
		Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
		Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.	
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
		Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.	
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-WP	Water	Nitrite as N	EPA 300.1 IC
NO3-IC-WP	Water	Nitrate as N	EPA 300.1 IC
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
		This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.	
PH-WP	Water	pH	APHA 4500H
		The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.	
SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2
		This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.	
SO4-IC-WP	Water	Sulfate	EPA 300.1 IC
		This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".	
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540C
		The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.	
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540D
		The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.	
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1011302

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R2202438							
WG1294090-2	CVS							
Acidity (as CaCO3)			101		%		85-115	10-JUN-11
WG1294090-3	DUP	L1010047-1						
Acidity (as CaCO3)		2.2	2.2		mg/L	0.0	400	10-JUN-11
WG1294090-4	DUP	L1012148-11						
Acidity (as CaCO3)		2.0	1.9		mg/L	3.3	400	10-JUN-11
WG1294090-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	10-JUN-11
ALK-TOT-WP								
	Water							
Batch	R2198424							
WG1289782-3	CVS							
Alkalinity, Total (as CaCO3)			102		%		85-115	02-JUN-11
WG1289782-7	DUP	L1011536-1						
Alkalinity, Total (as CaCO3)		498	498		mg/L	0.041	20	02-JUN-11
Bicarbonate (HCO3)		607	608		mg/L	0.041	25	02-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	02-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	02-JUN-11
Batch	R2200310							
WG1291913-3	CVS							
Alkalinity, Total (as CaCO3)			101		%		85-115	07-JUN-11
WG1291913-5	CVS							
Alkalinity, Total (as CaCO3)			110		%		85-115	07-JUN-11
WG1291913-4	DUP	L1012148-14						
Alkalinity, Total (as CaCO3)		16.0	15.9		mg/L	0.18	20	07-JUN-11
Bicarbonate (HCO3)		19.5	19.4		mg/L	0.18	25	07-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	07-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	07-JUN-11
WG1291913-6	DUP	L1012148-3						
Alkalinity, Total (as CaCO3)		20.7	20.8		mg/L	0.14	20	07-JUN-11
Bicarbonate (HCO3)		25.3	25.3		mg/L	0.14	25	07-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	07-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	07-JUN-11

BR-IC-WP Water



Quality Control Report

Workorder: L1011302

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BR-IC-WP		Water						
Batch	R2197723							
WG1289025-3	DUP	L1011291-3						
Bromide (Br)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	01-JUN-11
WG1289025-2	LCS							
Bromide (Br)			102		%		85-115	01-JUN-11
WG1289025-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	01-JUN-11
WG1289025-4	MS	L1011291-3						
Bromide (Br)			92		%		75-125	01-JUN-11
C-DIS-ORG-WP		Water						
Batch	R2202699							
WG1294373-2	CVS							
Dissolved Organic Carbon			103		%		80-120	10-JUN-11
WG1294370-2	DUP	L1011302-3						
Dissolved Organic Carbon		9.5	9.2		mg/L	2.4	20	11-JUN-11
Batch	R2203318							
WG1295138-2	CVS							
Dissolved Organic Carbon			101		%		80-120	13-JUN-11
C-TOT-ORG-WP		Water						
Batch	R2202699							
WG1294373-2	CVS							
Total Organic Carbon			102		%		80-120	10-JUN-11
WG1294373-3	DUP	L1011230-3						
Total Organic Carbon		14.8	14.5		mg/L	2.1	20	10-JUN-11
WG1294373-1	MB							
Total Organic Carbon			<1.0		mg/L		1	10-JUN-11
Batch	R2203318							
WG1295138-2	CVS							
Total Organic Carbon			101		%		80-120	13-JUN-11
WG1295138-3	DUP	L1012148-3						
Total Organic Carbon		4.9	4.7		mg/L	4.7	400	13-JUN-11
WG1295138-4	DUP	L1012148-8						
Total Organic Carbon		16.3	16.2		mg/L	0.58	20	13-JUN-11
WG1295138-5	DUP	L1013224-4						
Total Organic Carbon		2.4	2.6		mg/L	11	400	14-JUN-11
WG1295138-1	MB							
Total Organic Carbon			<1.0		mg/L		1	13-JUN-11



Quality Control Report

Workorder: L1011302

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CHL,PHEO-FLUORO-WP								
	Water							
Batch	R2201024							
WG1292662-1	CVS							
Chlorophyll a			101		%		65-135	08-JUN-11
WG1292662-2	CVS							
Chlorophyll a			122		%		65-135	08-JUN-11
WG1292654-2	DUP	L1011291-3						
Chlorophyll a		8.69	8.11		ug/L	6.9	35	08-JUN-11
Phaeophytin a		3.72	3.70		ug/L	0.54	35	08-JUN-11
WG1292654-3	DUP	L1012522-2						
Chlorophyll a		2.23	1.77		ug/L	23	35	08-JUN-11
Phaeophytin a		0.94	0.99		ug/L	5.2	35	08-JUN-11
WG1292654-1	MB							
Chlorophyll a			<0.10		ug/L		0.1	08-JUN-11
Phaeophytin a			<0.10		ug/L		0.1	08-JUN-11
CL-IC-WP								
	Water							
Batch	R2197723							
WG1289025-3	DUP	L1011291-3						
Chloride		<0.50	<0.50	RPD-NA	mg/L	N/A	20	01-JUN-11
WG1289025-2	LCS							
Chloride			100		%		85-115	01-JUN-11
WG1289025-1	MB							
Chloride			<0.50		mg/L		0.5	01-JUN-11
WG1289025-4	MS	L1011291-3						
Chloride			98		%		75-125	01-JUN-11
COLOUR-TRUE-WP								
	Water							
Batch	R2198910							
WG1290376-3	DUP	L1010400-1						
Colour, True		10.3	9.3		CU	10	400	03-JUN-11
WG1290376-4	DUP	L1011306-2						
Colour, True		94.2	96.5		CU	2.4	20	03-JUN-11
WG1290376-2	LCS							
Colour, True			98		%		85-115	03-JUN-11
WG1290376-1	MB							
Colour, True			<5.0		CU		5	03-JUN-11
CONSULT-BOD-CBOD-WP								
	Water							



Quality Control Report

Workorder: L1011302

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CONSULT-BOD-CBOD-WP Water								
Batch R2199473								
WG1287921-3	DUP	L1010952-2						
BOD Carbonaceous		1.2	1.1		mg/L	8.9	400	06-JUN-11
WG1287921-2	IRM	61-GG						
BOD Carbonaceous			92		%		85-115	06-JUN-11
WG1287921-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	06-JUN-11
EC-WP Water								
Batch R2198424								
WG1289782-1	CVS							
Conductivity			99		%		90-110	02-JUN-11
WG1289782-7	DUP	L1011536-1						
Conductivity		1330	1330		umhos/cm	0.13	10	02-JUN-11
Batch R2200319								
WG1291926-1	CVS							
Conductivity			100		%		90-110	06-JUN-11
WG1291926-2	DUP	L1011291-4						
Conductivity		1.20	1.19		umhos/cm	0.84	400	06-JUN-11
F-IC-WP Water								
Batch R2197723								
WG1289025-3	DUP	L1011291-3						
Fluoride		<0.10	<0.10	RPD-NA	mg/L	N/A	20	01-JUN-11
WG1289025-2	LCS							
Fluoride			102		%		85-115	01-JUN-11
WG1289025-1	MB							
Fluoride			<0.10		mg/L		0.1	01-JUN-11
WG1289025-4	MS	L1011291-3						
Fluoride			104		%		75-125	01-JUN-11
HG-D-CVAF-WP Water								
Batch R2203120								
WG1294817-3	DUP	L1010336-3						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
WG1294817-5	DUP	L1011291-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
WG1294817-2	LCS							
Mercury (Hg)-Dissolved			92		%		80-120	08-JUN-11



Quality Control Report

Workorder: L1011302

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAF-WP		Water						
Batch	R2203120							
WG1294817-2	LCS							
Mercury (Hg)-Dissolved			92		%		80-120	08-JUN-11
WG1294816-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
WG1294817-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
WG1294817-4	MS	L1010336-3						
Mercury (Hg)-Dissolved			99		%		70-130	08-JUN-11
Mercury (Hg)-Dissolved			99		%		70-130	08-JUN-11
WG1294817-6	MS	L1011291-1						
Mercury (Hg)-Dissolved			91		%		70-130	08-JUN-11
Mercury (Hg)-Dissolved			91		%		70-130	08-JUN-11
HG-T-CVAF-WP		Water						
Batch	R2198344							
WG1289697-3	DUP	L1009186-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-5	DUP	L1010393-5						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-2	LCS							
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
WG1289697-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
WG1289697-4	MS	L1009186-1						
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
WG1289697-6	MS	L1010393-5						
Mercury (Hg)-Total			115		%		70-130	02-JUN-11
Mercury (Hg)-Total			115		%		70-130	02-JUN-11
MET-D-L-MS-WP		Water						



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R2199629							
WG1291143-4	DUP	WG1291143-3						
Aluminum (Al)-Dissolved		0.0055	0.0051		mg/L	7.3	400	04-JUN-11
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	04-JUN-11
Arsenic (As)-Dissolved		0.00357	0.00361		mg/L	1.2	20	04-JUN-11
Barium (Ba)-Dissolved		0.0508	0.0506		mg/L	0.51	20	04-JUN-11
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	04-JUN-11
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	04-JUN-11
Boron (B)-Dissolved		0.023	0.025		mg/L	8.1	400	04-JUN-11
Cadmium (Cd)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	04-JUN-11
Calcium (Ca)-Dissolved		96.6	96.6		mg/L	0.0	20	04-JUN-11
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	04-JUN-11
Chromium (Cr)-Dissolved		0.0050	0.0054		mg/L	8.2	400	04-JUN-11
Cobalt (Co)-Dissolved		0.00045	0.00046		mg/L	2.4	400	04-JUN-11
Copper (Cu)-Dissolved		0.00042	0.00046		mg/L	8.4	400	04-JUN-11
Iron (Fe)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	04-JUN-11
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	400	04-JUN-11
Lithium (Li)-Dissolved		0.0180	0.0175		mg/L	2.7	20	04-JUN-11
Magnesium (Mg)-Dissolved		24.4	24.4		mg/L	0.31	20	04-JUN-11
Manganese (Mn)-Dissolved		0.273	0.274		mg/L	0.50	20	04-JUN-11
Molybdenum (Mo)-Dissolved		0.00075	0.00080		mg/L	7.0	20	04-JUN-11
Nickel (Ni)-Dissolved		0.0011	0.0011		mg/L	6.4	400	04-JUN-11
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	04-JUN-11
Potassium (K)-Dissolved		3.79	3.78		mg/L	0.21	20	04-JUN-11
Rubidium (Rb)-Dissolved		0.00131	0.00133		mg/L	1.6	20	04-JUN-11
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	04-JUN-11
Silicon (Si)-Dissolved		9.53	9.39		mg/L	1.5	20	04-JUN-11
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	04-JUN-11
Sodium (Na)-Dissolved		5.65	5.60		mg/L	0.81	20	04-JUN-11
Strontium (Sr)-Dissolved		0.160	0.162		mg/L	1.0	20	04-JUN-11
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	04-JUN-11
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	04-JUN-11
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	04-JUN-11
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	04-JUN-11
Titanium (Ti)-Dissolved		0.00041	0.00034		mg/L			04-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R2199629							
WG1291143-4	DUP	WG1291143-3						
Titanium (Ti)-Dissolved		0.00041	0.00034		mg/L	18	400	04-JUN-11
Tungsten (W)-Dissolved		0.00197	0.00195		mg/L	1.2	20	04-JUN-11
Uranium (U)-Dissolved		0.00044	0.00043		mg/L	1.8	400	04-JUN-11
Vanadium (V)-Dissolved		0.00357	0.00382		mg/L	6.6	20	04-JUN-11
Zinc (Zn)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	04-JUN-11
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	04-JUN-11
WG1291143-2	LCS							
Aluminum (Al)-Dissolved			99		%		80-120	03-JUN-11
Antimony (Sb)-Dissolved			98		%		80-120	03-JUN-11
Arsenic (As)-Dissolved			98		%		80-120	03-JUN-11
Barium (Ba)-Dissolved			102		%		80-120	03-JUN-11
Beryllium (Be)-Dissolved			100		%		80-120	03-JUN-11
Bismuth (Bi)-Dissolved			97		%		80-120	03-JUN-11
Boron (B)-Dissolved			98		%		80-120	03-JUN-11
Cadmium (Cd)-Dissolved			101		%		80-120	03-JUN-11
Calcium (Ca)-Dissolved			97		%		80-120	03-JUN-11
Cesium (Cs)-Dissolved			104		%		80-120	03-JUN-11
Chromium (Cr)-Dissolved			101		%		80-120	03-JUN-11
Cobalt (Co)-Dissolved			102		%		80-120	03-JUN-11
Copper (Cu)-Dissolved			97		%		80-120	03-JUN-11
Iron (Fe)-Dissolved			99		%		80-120	03-JUN-11
Lead (Pb)-Dissolved			98		%		80-120	03-JUN-11
Lithium (Li)-Dissolved			102		%		80-120	03-JUN-11
Magnesium (Mg)-Dissolved			100		%		80-120	03-JUN-11
Manganese (Mn)-Dissolved			101		%		80-120	03-JUN-11
Molybdenum (Mo)-Dissolved			108		%		80-120	03-JUN-11
Nickel (Ni)-Dissolved			96		%		80-120	03-JUN-11
Phosphorus (P)-Dissolved			99		%		80-120	03-JUN-11
Potassium (K)-Dissolved			100		%		80-120	03-JUN-11
Rubidium (Rb)-Dissolved			106		%		80-120	03-JUN-11
Selenium (Se)-Dissolved			95		%		80-120	03-JUN-11
Silicon (Si)-Dissolved			100		%		80-120	03-JUN-11
Silver (Ag)-Dissolved			100		%		80-120	03-JUN-11



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Workorder: L1011302

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2199629							
WG1291143-2	LCS							
Sodium (Na)-Dissolved			109		%		80-120	03-JUN-11
Strontium (Sr)-Dissolved			107		%		80-120	03-JUN-11
Tellurium (Te)-Dissolved			90		%		80-120	03-JUN-11
Thallium (Tl)-Dissolved			100		%		80-120	03-JUN-11
Thorium (Th)-Dissolved			102		%		80-120	03-JUN-11
Tin (Sn)-Dissolved			107		%		80-120	03-JUN-11
Titanium (Ti)-Dissolved			100		%		80-120	03-JUN-11
Tungsten (W)-Dissolved			100		%		80-120	03-JUN-11
Uranium (U)-Dissolved			106		%		80-120	03-JUN-11
Vanadium (V)-Dissolved			105		%		80-120	03-JUN-11
Zinc (Zn)-Dissolved			93		%		80-120	03-JUN-11
Zirconium (Zr)-Dissolved			104		%		80-120	03-JUN-11
WG1291143-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.02	03-JUN-11
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.001	03-JUN-11
Arsenic (As)-Dissolved			<0.00020		mg/L		0.001	03-JUN-11
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0005	03-JUN-11
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.001	03-JUN-11
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0005	03-JUN-11
Boron (B)-Dissolved			<0.010		mg/L		0.03	03-JUN-11
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.0002	03-JUN-11
Calcium (Ca)-Dissolved			<0.050		mg/L		0.2	03-JUN-11
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0005	03-JUN-11
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	03-JUN-11
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0005	03-JUN-11
Copper (Cu)-Dissolved			<0.00020		mg/L		0.002	03-JUN-11
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	03-JUN-11
Lead (Pb)-Dissolved			<0.000090		mg/L		0.001	03-JUN-11
Lithium (Li)-Dissolved			<0.0020		mg/L		0.01	03-JUN-11
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.05	03-JUN-11
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.001	03-JUN-11
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0005	03-JUN-11
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.002	03-JUN-11
Phosphorus (P)-Dissolved			<0.10		mg/L		0.5	03-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2199629							
WG1291143-1	MB							
Potassium (K)-Dissolved			<0.020		mg/L		0.1	03-JUN-11
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0005	03-JUN-11
Selenium (Se)-Dissolved			<0.0010		mg/L		0.005	03-JUN-11
Silicon (Si)-Dissolved			<0.050		mg/L		0.3	03-JUN-11
Silver (Ag)-Dissolved			<0.00010		mg/L		0.001	03-JUN-11
Sodium (Na)-Dissolved			<0.020		mg/L		0.05	03-JUN-11
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0005	03-JUN-11
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.001	03-JUN-11
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.005	03-JUN-11
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	03-JUN-11
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0006	03-JUN-11
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.001	03-JUN-11
Tungsten (W)-Dissolved			<0.00020		mg/L		0.002	03-JUN-11
Uranium (U)-Dissolved			<0.00010		mg/L		0.0005	03-JUN-11
Vanadium (V)-Dissolved			<0.00020		mg/L		0.002	03-JUN-11
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.02	03-JUN-11
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.001	03-JUN-11
MET-T-L-MS-WP		Water						
Batch	R2198215							
WG1288813-4	DUP	WG1288813-3						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	02-JUN-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Arsenic (As)-Total		0.00132	0.00133		mg/L	1.1	20	02-JUN-11
Barium (Ba)-Total		0.0267	0.0269		mg/L	0.93	20	02-JUN-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Boron (B)-Total		0.015	0.014		mg/L	6.2	400	02-JUN-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	02-JUN-11
Calcium (Ca)-Total		45.0	43.4		mg/L	3.5	20	02-JUN-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Copper (Cu)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2198215							
WG1288813-4	DUP	WG1288813-3						
Iron (Fe)-Total		0.17	0.17		mg/L	0.74	400	02-JUN-11
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	400	02-JUN-11
Lithium (Li)-Total		0.0056	0.0054		mg/L	3.5	400	02-JUN-11
Magnesium (Mg)-Total		13.4	13.1		mg/L	2.4	20	02-JUN-11
Manganese (Mn)-Total		0.0421	0.0435		mg/L	3.2	20	02-JUN-11
Molybdenum (Mo)-Total		0.00039	0.00039		mg/L	0.77	400	02-JUN-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	02-JUN-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	02-JUN-11
Potassium (K)-Total		1.54	1.47		mg/L	4.2	20	02-JUN-11
Rubidium (Rb)-Total		0.00116	0.00115		mg/L	1.0	20	02-JUN-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Silicon (Si)-Total		3.99	3.81		mg/L	4.5	20	02-JUN-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Sodium (Na)-Total		51.7	51.3		mg/L	0.76	20	02-JUN-11
Strontium (Sr)-Total		0.0853	0.0849		mg/L	0.45	20	02-JUN-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	02-JUN-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Titanium (Ti)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Uranium (U)-Total		0.00031	0.00032		mg/L	2.9	400	02-JUN-11
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	02-JUN-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	02-JUN-11
WG1288813-6	DUP	WG1288813-5						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	02-JUN-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Arsenic (As)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Barium (Ba)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	02-JUN-11



Quality Control Report

Workorder: L1011302

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2198215							
WG1288813-6	DUP	WG1288813-5						
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	02-JUN-11
Calcium (Ca)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	02-JUN-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Copper (Cu)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Iron (Fe)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	02-JUN-11
Lithium (Li)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	02-JUN-11
Magnesium (Mg)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	02-JUN-11
Manganese (Mn)-Total		<0.00030	<0.00030	RPD-NA	mg/L	N/A	400	02-JUN-11
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	02-JUN-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	02-JUN-11
Potassium (K)-Total		<0.020	<0.020	RPD-NA	mg/L	N/A	400	02-JUN-11
Rubidium (Rb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Silicon (Si)-Total		<0.050	<0.050	RPD-NA	mg/L	N/A	400	02-JUN-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Sodium (Na)-Total		<0.030	<0.030	RPD-NA	mg/L	N/A	400	02-JUN-11
Strontium (Sr)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	02-JUN-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Titanium (Ti)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	02-JUN-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	02-JUN-11
WG1288813-2	LCS							
Aluminum (Al)-Total			105		%		80-120	02-JUN-11
Antimony (Sb)-Total			96		%		80-120	02-JUN-11



Quality Control Report

Workorder: L1011302

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2198215							
WG1288813-2	LCS							
Arsenic (As)-Total			100		%		80-120	02-JUN-11
Barium (Ba)-Total			104		%		80-120	02-JUN-11
Beryllium (Be)-Total			100		%		80-120	02-JUN-11
Bismuth (Bi)-Total			100		%		80-120	02-JUN-11
Boron (B)-Total			98		%		80-120	02-JUN-11
Cadmium (Cd)-Total			103		%		80-120	02-JUN-11
Calcium (Ca)-Total			102		%		80-120	02-JUN-11
Cesium (Cs)-Total			103		%		80-120	02-JUN-11
Chromium (Cr)-Total			103		%		80-120	02-JUN-11
Cobalt (Co)-Total			108		%		80-120	02-JUN-11
Copper (Cu)-Total			103		%		80-120	02-JUN-11
Iron (Fe)-Total			105		%		80-120	02-JUN-11
Lead (Pb)-Total			99		%		80-120	02-JUN-11
Lithium (Li)-Total			100		%		80-120	02-JUN-11
Magnesium (Mg)-Total			101		%		80-120	02-JUN-11
Manganese (Mn)-Total			105		%		80-120	02-JUN-11
Molybdenum (Mo)-Total			102		%		80-120	02-JUN-11
Nickel (Ni)-Total			101		%		80-120	02-JUN-11
Phosphorus (P)-Total			109		%		80-120	02-JUN-11
Potassium (K)-Total			101		%		80-120	02-JUN-11
Rubidium (Rb)-Total			104		%		80-120	02-JUN-11
Selenium (Se)-Total			102		%		80-120	02-JUN-11
Silicon (Si)-Total			104		%		80-120	02-JUN-11
Silver (Ag)-Total			99		%		80-120	02-JUN-11
Sodium (Na)-Total			104		%		80-120	02-JUN-11
Strontium (Sr)-Total			102		%		80-120	02-JUN-11
Tellurium (Te)-Total			101		%		80-120	02-JUN-11
Thallium (Tl)-Total			100		%		80-120	02-JUN-11
Thorium (Th)-Total			97		%		70-130	02-JUN-11
Tin (Sn)-Total			101		%		80-120	02-JUN-11
Titanium (Ti)-Total			101		%		80-120	02-JUN-11
Tungsten (W)-Total			100		%		80-120	02-JUN-11
Uranium (U)-Total			104		%		80-120	02-JUN-11



Quality Control Report

Workorder: L1011302

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2198215							
WG1288813-2	LCS							
Vanadium (V)-Total			104		%		80-120	02-JUN-11
Zinc (Zn)-Total			101		%		80-120	02-JUN-11
Zirconium (Zr)-Total			101		%		80-120	02-JUN-11
WG1288813-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.02	02-JUN-11
Antimony (Sb)-Total			<0.00020		mg/L		0.001	02-JUN-11
Arsenic (As)-Total			<0.00020		mg/L		0.001	02-JUN-11
Barium (Ba)-Total			<0.00020		mg/L		0.0005	02-JUN-11
Beryllium (Be)-Total			<0.00020		mg/L		0.001	02-JUN-11
Bismuth (Bi)-Total			<0.00020		mg/L		0.0005	02-JUN-11
Boron (B)-Total			<0.010		mg/L		0.03	02-JUN-11
Cadmium (Cd)-Total			<0.000010		mg/L		0.0002	02-JUN-11
Calcium (Ca)-Total			<0.10		mg/L		0.2	02-JUN-11
Cesium (Cs)-Total			<0.00010		mg/L		0.0005	02-JUN-11
Chromium (Cr)-Total			<0.0010		mg/L		0.002	02-JUN-11
Cobalt (Co)-Total			<0.00020		mg/L		0.0005	02-JUN-11
Copper (Cu)-Total			<0.00020		mg/L		0.002	02-JUN-11
Iron (Fe)-Total			<0.10		mg/L		0.1	02-JUN-11
Lead (Pb)-Total			<0.000090		mg/L		0.001	02-JUN-11
Lithium (Li)-Total			<0.0020		mg/L		0.002	02-JUN-11
Magnesium (Mg)-Total			<0.010		mg/L		0.05	02-JUN-11
Manganese (Mn)-Total			<0.00030		mg/L		0.001	02-JUN-11
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0005	02-JUN-11
Nickel (Ni)-Total			<0.0020		mg/L		0.002	02-JUN-11
Phosphorus (P)-Total			<0.20		mg/L		0.5	02-JUN-11
Potassium (K)-Total			<0.020		mg/L		0.1	02-JUN-11
Rubidium (Rb)-Total			<0.00020		mg/L		0.0005	02-JUN-11
Selenium (Se)-Total			<0.0010		mg/L		0.005	02-JUN-11
Silicon (Si)-Total			<0.050		mg/L		0.3	02-JUN-11
Silver (Ag)-Total			<0.00010		mg/L		0.001	02-JUN-11
Sodium (Na)-Total			<0.030		mg/L		0.05	02-JUN-11
Strontium (Sr)-Total			<0.00010		mg/L		0.0005	02-JUN-11
Tellurium (Te)-Total			<0.00020		mg/L		0.001	02-JUN-11
Thallium (Tl)-Total			<0.00010		mg/L		0.005	02-JUN-11



Quality Control Report

Workorder: L1011302

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-IC-WP								
Water								
Batch	R2197723							
WG1289025-1	MB							
Nitrate-N			<0.050		mg/L		0.05	01-JUN-11
WG1289025-4	MS	L1011291-3						
Nitrate-N			94		%		75-125	01-JUN-11
P-T-COL-WP								
Water								
Batch	R2197462							
WG1288518-3	DUP	L1011388-2						
Phosphorus (P)-Total		0.164	0.162		mg/L	1.2	20	02-JUN-11
WG1288518-4	DUP	L1011423-2						
Phosphorus (P)-Total		12.7	12.7		mg/L	0.0	20	02-JUN-11
WG1288518-5	DUP	L1011274-1						
Phosphorus (P)-Total		18.8	17.0		mg/L	10	20	02-JUN-11
WG1288518-2	LCS							
Phosphorus (P)-Total			103		%		80-120	02-JUN-11
WG1288518-1	MB							
Phosphorus (P)-Total			<0.010		mg/L		0.01	02-JUN-11
WG1288518-6	MS	L1011230-2						
Phosphorus (P)-Total			87		%		70-130	02-JUN-11
WG1288518-7	MS	L1011274-3						
Phosphorus (P)-Total			106		%		70-130	02-JUN-11
WG1288518-8	MS	L1011528-1						
Phosphorus (P)-Total			102		%		70-130	02-JUN-11
PH-WP								
Water								
Batch	R2198424							
WG1289782-4	DUP	L1011952-6						
pH		8.26	8.27	J	pH units	0.01	0.2	02-JUN-11
WG1289782-7	DUP	L1011536-1						
pH		7.74	7.82	J	pH units	0.08	0.2	02-JUN-11
WG1289782-2	LCS							
pH			7.41		pH units		7.3-7.5	02-JUN-11
SIO2-L-COL-WP								
Water								
Batch	R2202013							
WG1293531-5	DUP	L1010336-2						
Silica, Reactive (as SiO2)		5.20	5.03		mg/L	3.5	20	10-JUN-11
WG1293531-6	DUP	L1011306-1						
Silica, Reactive (as SiO2)		0.185	0.185		mg/L	0.11	20	10-JUN-11
WG1293531-2	LCS							



Quality Control Report

Workorder: L1011302

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SIO2-L-COL-WP		Water						
Batch	R2202013							
WG1293531-2	LCS							
Silica, Reactive (as SiO2)			107		%		85-115	10-JUN-11
WG1293531-1	MB							
Silica, Reactive (as SiO2)			<0.0050		mg/L		0.005	10-JUN-11
WG1293531-3	MS	L1011291-1						
Silica, Reactive (as SiO2)			122		%		75-125	10-JUN-11
WG1293531-4	MS	L1012522-3						
Silica, Reactive (as SiO2)			112		%		75-125	10-JUN-11
SO4-IC-WP		Water						
Batch	R2197723							
WG1289025-3	DUP	L1011291-3						
Sulfate		1.15	1.15		mg/L	0.078	20	01-JUN-11
WG1289025-2	LCS							
Sulfate			101		%		85-115	01-JUN-11
WG1289025-1	MB							
Sulfate			<0.50		mg/L		0.5	01-JUN-11
WG1289025-4	MS	L1011291-3						
Sulfate			99		%		75-125	01-JUN-11
SOLIDS-TDS-WP		Water						
Batch	R2199134							
WG1289359-2	CVS							
Total Dissolved Solids			101		%		85-115	03-JUN-11
WG1289359-3	DUP	L1011302-1						
Total Dissolved Solids		330	332		mg/L	0.60	20	03-JUN-11
WG1289359-4	DUP	L1011359-1						
Total Dissolved Solids		1320	1330		mg/L	0.60	20	03-JUN-11
WG1289359-9	DUP	L1012391-1						
Total Dissolved Solids		1230	1330		mg/L	7.8	20	03-JUN-11
WG1289359-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	03-JUN-11
SOLIDS-TOTSUS-WP		Water						
Batch	R2199134							
WG1289359-2	CVS							
Total Suspended Solids			94		%		85-115	03-JUN-11
WG1289359-10	DUP	L1012400-9						
Total Suspended Solids		174	206		mg/L	17	20	03-JUN-11
WG1289359-3	DUP	L1011302-1						



Quality Control Report

Workorder: L1011302

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2199134							
WG1289359-3	DUP	L1011302-1						
Total Suspended Solids		7.0	8.0		mg/L	13	400	03-JUN-11
WG1289359-4	DUP	L1011359-1						
Total Suspended Solids		50.0	57.5		mg/L	14	20	03-JUN-11
WG1289359-6	DUP	L1012187-2						
Total Suspended Solids		172	166		mg/L	3.6	20	03-JUN-11
WG1289359-9	DUP	L1012391-1						
Total Suspended Solids		540	610		mg/L	12	20	03-JUN-11
WG1289359-1	MB							
Total Suspended Solids			<5.0		mg/L		5	03-JUN-11
TURBIDITY-WP								
	Water							
Batch	R2197853							
WG1289220-3	DUP	L1011238-2						
Turbidity		1.10	1.05		NTU	4.7	15	01-JUN-11
WG1289220-2	LCS							
Turbidity			100		%		85-115	01-JUN-11
WG1289220-1	MB							
Turbidity			<0.10		NTU		0.1	01-JUN-11

Quality Control Report

Workorder: L1011302

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L1011302

Report Date: 14-JUN-11

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Turbidity	1	30-MAY-11 10:07	01-JUN-11 17:52	48	56	hours	EHTL
	2	30-MAY-11 12:00	01-JUN-11 17:52	48	54	hours	EHTL
	3	30-MAY-11 10:08	01-JUN-11 17:52	48	56	hours	EHTL
pH	1	30-MAY-11 10:07	02-JUN-11 15:05	0.25	77	hours	EHTR-FM
	2	30-MAY-11 12:00	02-JUN-11 15:05	0.25	75	hours	EHTR-FM
	3	30-MAY-11 10:08	02-JUN-11 15:05	0.25	77	hours	EHTR-FM
Anions and Nutrients							
Bromide	1	30-MAY-11 10:07	01-JUN-11 15:26	48	53	hours	EHTL
	2	30-MAY-11 12:00	01-JUN-11 15:26	48	51	hours	EHTL
	3	30-MAY-11 10:08	01-JUN-11 15:26	48	53	hours	EHTL
Nitrate as N	1	30-MAY-11 10:07	01-JUN-11 15:26	48	53	hours	EHTL
	2	30-MAY-11 12:00	01-JUN-11 15:26	48	51	hours	EHTL
	3	30-MAY-11 10:08	01-JUN-11 15:26	48	53	hours	EHTL
Nitrite as N	1	30-MAY-11 10:07	01-JUN-11 15:26	48	53	hours	EHTL
	2	30-MAY-11 12:00	01-JUN-11 15:26	48	51	hours	EHTL
	3	30-MAY-11 10:08	01-JUN-11 15:26	48	53	hours	EHTL
Phosphorus, Total	1	30-MAY-11 10:07	01-JUN-11 16:55	48	55	hours	EHTL
	2	30-MAY-11 12:00	01-JUN-11 16:55	48	53	hours	EHTL
	3	30-MAY-11 10:08	01-JUN-11 16:55	48	55	hours	EHTL

Legend & Qualifier Definitions:

- EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
- EHTR: Exceeded ALS recommended hold time prior to sample receipt.
- EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
- EHT: Exceeded ALS recommended hold time prior to analysis.
- Rec. HT: ALS recommended hold time (see units).

Notes*:
 Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
 Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1011302 were received on 01-JUN-11 08:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

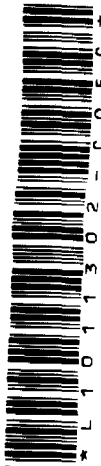
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



mm

COC #



L1011302

Report To
 Company: AECOM -W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone: _____ Fax: _____

Standard Other Excel Digital Fax

Email 1: cliff.samoiloff@aecom.com
 Email 2: shawna.kiantanson@aecom.com
 Email 3: _____

Client / Project Information
 Job #: 60213483-200
 PO / AFE: _____
 LSD: _____
 Quote #: Q24534

ALS Contact: Christine Herrod
 Sampler: SK, MH

Sample Identification
 (This description will appear on the report)
 ANC-01
 TRB-10
 DUP-03

Service Requested (Rush for routine analysis subject to availability)
 Regular (Standard Turnaround Times - Business Days)
 Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
 Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
 Same Day or Weekend Emergency - Contact ALS to Confirm TAT

Analysis Request
 Please indicate below Filtered, Preserved or both (F, P, F/P)

Sample #	Chlorophylla / Pheophytin	Acidity, Colour, Turbidity	Anions, Br, silica, ph, ec, Alk	NH3, TKN, PT	CBOD	Solids (TSS, TDS)	Metals & Hg - Total	Metals & Hg - Dissolved	TOC, DOC	Number of Containers
ANC-01	X	X	X	X	X	X	X	X	X	6
TRB-10	X	X	X	X	X	X	X	X	X	6
DUP-03	X	X	X	X	X	X	X	X	X	6

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)
 Released by: _____ Date (dd-mm-yy): _____ Time (hh-mm): _____
 Received by: _____ Date: _____ Time: 8:30
 Temperature: 7°C

SHIPMENT VERIFICATION (lab use only)
 Verified by: _____ Date: _____ Time: _____
 Observations: Yes / No? If Yes add SIF



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 01-JUN-11
Report Date: 14-JUN-11 13:07 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1011306
Project P.O. #: NOT SUBMITTED
Job Reference: 60212435-200
Legal Site Desc:
C of C Numbers:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011306-1 STC-02							
Sampled By: SK, MH on 30-MAY-11 @ 15:28							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	5.02		0.50	mg/L		01-JUN-11	R2197723
Fluoride							
Fluoride	<0.10		0.10	mg/L		01-JUN-11	R2197723
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Sulfate							
Sulfate	44.6		0.50	mg/L		01-JUN-11	R2197723
Miscellaneous Parameters							
Acidity (as CaCO3)	3.2		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		10-JUN-11	R2202824
Bromide (Br)	<0.10		0.10	mg/L		01-JUN-11	R2197723
BOD Carbonaceous	1.8		1.0	mg/L	01-JUN-11	06-JUN-11	R2199473
Colour, True	91.2		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	28.4		1.0	mg/L		11-JUN-11	R2202699
Hardness (as CaCO3)	149		0.20	mg/L		08-JUN-11	
Hardness (as CaCO3)	152		0.30	mg/L		03-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		01-JUN-11	
Phosphorus (P)-Total	0.016		0.010	mg/L		02-JUN-11	R2197462
Silica, Reactive (as SiO2)	0.185		0.0050	mg/L		10-JUN-11	R2202013
Total Dissolved Solids	194		5.0	mg/L		06-JUN-11	R2199780
Total Kjeldahl Nitrogen	1.00		0.20	mg/L	01-JUN-11	06-JUN-11	R2199162
Total Organic Carbon	28.7		1.0	mg/L		11-JUN-11	R2202699
Total Suspended Solids	<5.0		5.0	mg/L		06-JUN-11	R2199780
Turbidity	0.95		0.10	NTU		01-JUN-11	R2197853
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0805		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Arsenic (As)-Total	0.00076		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Barium (Ba)-Total	0.0205		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Boron (B)-Total	0.016		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	02-JUN-11	02-JUN-11	R2198215
Calcium (Ca)-Total	36.4		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Copper (Cu)-Total	0.00071		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Iron (Fe)-Total	0.10		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Lead (Pb)-Total	<0.000090		0.000090	mg/L	02-JUN-11	02-JUN-11	R2198215
Lithium (Li)-Total	0.0040		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215
Magnesium (Mg)-Total	14.9		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Manganese (Mn)-Total	0.0176		0.00030	mg/L	02-JUN-11	02-JUN-11	R2198215
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011306-1 STC-02							
Sampled By: SK, MH on 30-MAY-11 @ 15:28							
Matrix: WATER							
Total Metals by ICP-MS							
Phosphorus (P)-Total	<0.20		0.20	mg/L	02-JUN-11	02-JUN-11	R2198215
Potassium (K)-Total	2.95		0.020	mg/L	02-JUN-11	02-JUN-11	R2198215
Rubidium (Rb)-Total	0.00189		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Selenium (Se)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Silicon (Si)-Total	0.299		0.050	mg/L	02-JUN-11	02-JUN-11	R2198215
Silver (Ag)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Sodium (Na)-Total	7.83		0.030	mg/L	02-JUN-11	02-JUN-11	R2198215
Strontium (Sr)-Total	0.110		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Thorium (Th)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tin (Sn)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Titanium (Ti)-Total	0.00366		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Tungsten (W)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Uranium (U)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Vanadium (V)-Total	0.00057		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	02-JUN-11	02-JUN-11	R2198215
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0098		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Arsenic (As)-Dissolved	0.00085		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Barium (Ba)-Dissolved	0.0189		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Boron (B)-Dissolved	0.021		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	01-JUN-11	03-JUN-11	R2199629
Calcium (Ca)-Dissolved	34.1		0.050	mg/L	01-JUN-11	03-JUN-11	R2199629
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Chromium (Cr)-Dissolved	0.0022		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Copper (Cu)-Dissolved	0.00066		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	01-JUN-11	03-JUN-11	R2199629
Lithium (Li)-Dissolved	0.0078		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Magnesium (Mg)-Dissolved	15.5		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Manganese (Mn)-Dissolved	0.00981		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Potassium (K)-Dissolved	2.87		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Rubidium (Rb)-Dissolved	0.00169		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Silicon (Si)-Dissolved	0.172		0.050	mg/L	01-JUN-11	03-JUN-11	R2199629
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Sodium (Na)-Dissolved	8.76		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Strontium (Sr)-Dissolved	0.107		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011306-1 STC-02							
Sampled By: SK, MH on 30-MAY-11 @ 15:28							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Titanium (Ti)-Dissolved	0.00100		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	07-JUN-11	R2200454
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	01-JUN-11	03-JUN-11	R2199629
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	1.53		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
Phaeophytin a	1.35		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	106		1.0	mg/L		02-JUN-11	R2198424
Bicarbonate (HCO3)	129		2.0	mg/L		02-JUN-11	R2198424
Carbonate (CO3)	<0.60		0.60	mg/L		02-JUN-11	R2198424
Hydroxide (OH)	<0.40		0.40	mg/L		02-JUN-11	R2198424
Conductivity							
Conductivity	297		0.40	umhos/cm		02-JUN-11	R2198424
pH							
pH	7.78		0.10	pH units		02-JUN-11	R2198424
L1011306-2 STC-03							
Sampled By: SK, MH on 30-MAY-11 @ 13:42							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	3.17		0.50	mg/L		01-JUN-11	R2197723
Fluoride							
Fluoride	<0.10		0.10	mg/L		01-JUN-11	R2197723
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		01-JUN-11	R2197723
Sulfate							
Sulfate	12.2		0.50	mg/L		01-JUN-11	R2197723
Miscellaneous Parameters							
Acidity (as CaCO3)	3.9		1.0	mg/L		10-JUN-11	R2202438
Ammonia as N	<0.050		0.050	mg/L		10-JUN-11	R2202824
Bromide (Br)	<0.10		0.10	mg/L		01-JUN-11	R2197723
BOD Carbonaceous	1.9		1.0	mg/L	01-JUN-11	06-JUN-11	R2199473
Colour, True	94.2		5.0	CU		03-JUN-11	R2198910
Dissolved Organic Carbon	25.5		1.0	mg/L		11-JUN-11	R2202699
Hardness (as CaCO3)	105		0.20	mg/L		08-JUN-11	
Hardness (as CaCO3)	113		0.30	mg/L		03-JUN-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	08-JUN-11	08-JUN-11	R2203120
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	02-JUN-11	02-JUN-11	R2198344
Nitrate and Nitrite as N	<0.071		0.071	mg/L		01-JUN-11	
Phosphorus (P)-Total	0.032		0.010	mg/L		02-JUN-11	R2197462
Silica, Reactive (as SiO2)	1.45		0.0050	mg/L		10-JUN-11	R2202013
Total Dissolved Solids	138		5.0	mg/L		06-JUN-11	R2199780
Total Kjeldahl Nitrogen	0.94		0.20	mg/L	01-JUN-11	06-JUN-11	R2199162
Total Organic Carbon	25.7		1.0	mg/L		11-JUN-11	R2202699

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011306-2 STC-03							
Sampled By: SK, MH on 30-MAY-11 @ 13:42							
Matrix: WATER							
Total Suspended Solids	<5.0		5.0	mg/L		06-JUN-11	R2199780
Turbidity	2.09		0.10	NTU		01-JUN-11	R2197853
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0749		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Arsenic (As)-Total	0.00098		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Barium (Ba)-Total	0.0118		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Boron (B)-Total	0.016		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	02-JUN-11	02-JUN-11	R2198215
Calcium (Ca)-Total	24.8		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Copper (Cu)-Total	0.00061		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Iron (Fe)-Total	0.50		0.10	mg/L	02-JUN-11	02-JUN-11	R2198215
Lead (Pb)-Total	<0.000090		0.000090	mg/L	02-JUN-11	02-JUN-11	R2198215
Lithium (Li)-Total	0.0040		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215
Magnesium (Mg)-Total	12.3		0.010	mg/L	02-JUN-11	02-JUN-11	R2198215
Manganese (Mn)-Total	0.0559		0.00030	mg/L	02-JUN-11	02-JUN-11	R2198215
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	02-JUN-11	02-JUN-11	R2198215
Phosphorus (P)-Total	<0.20		0.20	mg/L	02-JUN-11	02-JUN-11	R2198215
Potassium (K)-Total	1.79		0.020	mg/L	02-JUN-11	02-JUN-11	R2198215
Rubidium (Rb)-Total	0.00088		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Selenium (Se)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Silicon (Si)-Total	1.02		0.050	mg/L	02-JUN-11	02-JUN-11	R2198215
Silver (Ag)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Sodium (Na)-Total	7.88		0.030	mg/L	02-JUN-11	02-JUN-11	R2198215
Strontium (Sr)-Total	0.0712		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Thorium (Th)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Tin (Sn)-Total	<0.00020		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Titanium (Ti)-Total	0.00379		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Tungsten (W)-Total	<0.0010		0.0010	mg/L	02-JUN-11	02-JUN-11	R2198215
Uranium (U)-Total	<0.00010		0.00010	mg/L	02-JUN-11	02-JUN-11	R2198215
Vanadium (V)-Total	0.00068		0.00020	mg/L	02-JUN-11	02-JUN-11	R2198215
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	02-JUN-11	02-JUN-11	R2198215
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	02-JUN-11	02-JUN-11	R2198215
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0106		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Arsenic (As)-Dissolved	0.00104		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Barium (Ba)-Dissolved	0.0105		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Boron (B)-Dissolved	0.021		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	01-JUN-11	03-JUN-11	R2199629
Calcium (Ca)-Dissolved	22.2		0.050	mg/L	01-JUN-11	03-JUN-11	R2199629
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011306-2 STC-03							
Sampled By: SK, MH on 30-MAY-11 @ 13:42							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Chromium (Cr)-Dissolved	0.0022		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Copper (Cu)-Dissolved	0.00044		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Iron (Fe)-Dissolved	0.26		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	01-JUN-11	03-JUN-11	R2199629
Lithium (Li)-Dissolved	0.0075		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Magnesium (Mg)-Dissolved	12.1		0.010	mg/L	01-JUN-11	03-JUN-11	R2199629
Manganese (Mn)-Dissolved	0.0139		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	01-JUN-11	03-JUN-11	R2199629
Potassium (K)-Dissolved	1.62		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Rubidium (Rb)-Dissolved	0.00069		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	01-JUN-11	03-JUN-11	R2199629
Silicon (Si)-Dissolved	0.894		0.050	mg/L	01-JUN-11	07-JUN-11	R2200454
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Sodium (Na)-Dissolved	8.22		0.020	mg/L	01-JUN-11	03-JUN-11	R2199629
Strontium (Sr)-Dissolved	0.0677		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Titanium (Ti)-Dissolved	0.00080		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	03-JUN-11	R2199629
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	01-JUN-11	03-JUN-11	R2199629
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	01-JUN-11	07-JUN-11	R2200454
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	01-JUN-11	03-JUN-11	R2199629
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	01-JUN-11	03-JUN-11	R2199629
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	4.25		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
Phaeophytin a	2.87		0.10	ug/L	07-JUN-11	08-JUN-11	R2201024
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	98.3		1.0	mg/L		02-JUN-11	R2198424
Bicarbonate (HCO3)	120		2.0	mg/L		02-JUN-11	R2198424
Carbonate (CO3)	<0.60		0.60	mg/L		02-JUN-11	R2198424
Hydroxide (OH)	<0.40		0.40	mg/L		02-JUN-11	R2198424
Conductivity							
Conductivity	217		0.40	umhos/cm		02-JUN-11	R2198424
pH							
pH	7.70		0.10	pH units		02-JUN-11	R2198424

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-LOW-WP	Water	Acidity	APHA Method 2310B
ALK-TOT-WP	Water	Alkalinity	APHA 2320B
Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically.			
BR-IC-WP	Water	Bromide	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
CHL,PHEO-FLUORO-WP	Water	Chlorophyll a, Pheophytin by fluorometry	EPA 445.0
Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification.			
CL-IC-WP	Water	Chloride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR
This analysis is carried out using procedures adapted from APHA 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. Colour is pH dependent. Unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit.			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.			
EC-WP	Water	Conductivity	APHA 2510B
Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	HARDNESS CALCULATED
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
F-IC-WP	Water	Fluoride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
		Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.	
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
		Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
		Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.	
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
		Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.	
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
		Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.	
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-WP	Water	Nitrite as N	EPA 300.1 IC
NO3-IC-WP	Water	Nitrate as N	EPA 300.1 IC
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
		This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.	
PH-WP	Water	pH	APHA 4500H
		The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.	
SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2
		This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.	
SO4-IC-WP	Water	Sulfate	EPA 300.1 IC
		This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".	
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540C
		The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.	
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540D
		The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.	
TURBIDITY-WP	Water	Turbidity	APHA, 1998, 2130B

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

*mg/kg - milligrams per kilogram based on dry weight of sample
 mg/kg wwt - milligrams per kilogram based on wet weight of sample
 mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
 mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1011306

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R2202438							
WG1294090-2	CVS							
Acidity (as CaCO3)			101		%		85-115	10-JUN-11
WG1294090-3	DUP	L1010047-1						
Acidity (as CaCO3)		2.2	2.2		mg/L	0.0	400	10-JUN-11
WG1294090-4	DUP	L1012148-11						
Acidity (as CaCO3)		2.0	1.9		mg/L	3.3	400	10-JUN-11
WG1294090-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	10-JUN-11
ALK-TOT-WP								
	Water							
Batch	R2198424							
WG1289782-3	CVS							
Alkalinity, Total (as CaCO3)			102		%		85-115	02-JUN-11
WG1289782-7	DUP	L1011536-1						
Alkalinity, Total (as CaCO3)		498	498		mg/L	0.041	20	02-JUN-11
Bicarbonate (HCO3)		607	608		mg/L	0.041	25	02-JUN-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	02-JUN-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	02-JUN-11
BR-IC-WP								
	Water							
Batch	R2197723							
WG1289025-3	DUP	L1011291-3						
Bromide (Br)		<0.10	<0.10	RPD-NA	mg/L	N/A	20	01-JUN-11
WG1289025-2	LCS							
Bromide (Br)			102		%		85-115	01-JUN-11
WG1289025-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	01-JUN-11
WG1289025-4	MS	L1011291-3						
Bromide (Br)			92		%		75-125	01-JUN-11
C-DIS-ORG-WP								
	Water							
Batch	R2202699							
WG1294373-2	CVS							
Dissolved Organic Carbon			103		%		80-120	10-JUN-11
WG1294370-2	DUP	L1011302-3						
Dissolved Organic Carbon		9.5	9.2		mg/L	2.4	20	11-JUN-11
C-TOT-ORG-WP								
	Water							



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-ORG-WP								
	Water							
Batch	R2202699							
WG1294373-2	CVS							
Total Organic Carbon			102		%		80-120	10-JUN-11
WG1294373-3	DUP	L1011230-3						
Total Organic Carbon		14.8	14.5		mg/L	2.1	20	10-JUN-11
WG1294373-1	MB							
Total Organic Carbon			<1.0		mg/L		1	10-JUN-11
CHL,PHEO-FLUORO-WP								
	Water							
Batch	R2201024							
WG1292662-1	CVS							
Chlorophyll a			101		%		65-135	08-JUN-11
WG1292662-2	CVS							
Chlorophyll a			122		%		65-135	08-JUN-11
WG1292654-2	DUP	L1011291-3						
Chlorophyll a		8.69	8.11		ug/L	6.9	35	08-JUN-11
Phaeophytin a		3.72	3.70		ug/L	0.54	35	08-JUN-11
WG1292654-3	DUP	L1012522-2						
Chlorophyll a		2.23	1.77		ug/L	23	35	08-JUN-11
Phaeophytin a		0.94	0.99		ug/L	5.2	35	08-JUN-11
WG1292654-1	MB							
Chlorophyll a			<0.10		ug/L		0.1	08-JUN-11
Phaeophytin a			<0.10		ug/L		0.1	08-JUN-11
CL-IC-WP								
	Water							
Batch	R2197723							
WG1289025-3	DUP	L1011291-3						
Chloride		<0.50	<0.50	RPD-NA	mg/L	N/A	20	01-JUN-11
WG1289025-2	LCS							
Chloride			100		%		85-115	01-JUN-11
WG1289025-1	MB							
Chloride			<0.50		mg/L		0.5	01-JUN-11
WG1289025-4	MS	L1011291-3						
Chloride			98		%		75-125	01-JUN-11
COLOUR-TRUE-WP								
	Water							
Batch	R2198910							
WG1290376-3	DUP	L1010400-1						
Colour, True		10.3	9.3		CU	10	400	03-JUN-11
WG1290376-4	DUP	L1011306-2						
Colour, True		94.2	96.5		CU	2.4	20	03-JUN-11



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Workorder: L1011306

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
COLOUR-TRUE-WP		Water						
Batch	R2198910							
WG1290376-2	LCS							
Colour, True			98		%		85-115	03-JUN-11
WG1290376-1	MB							
Colour, True			<5.0		CU		5	03-JUN-11
CONSULT-BOD-CBOD-WP		Water						
Batch	R2199473							
WG1287921-3	DUP	L1010952-2						
BOD Carbonaceous		1.2	1.1		mg/L	8.9	400	06-JUN-11
WG1287921-2	IRM	61-GG						
BOD Carbonaceous			92		%		85-115	06-JUN-11
WG1287921-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	06-JUN-11
EC-WP		Water						
Batch	R2198424							
WG1289782-1	CVS							
Conductivity			99		%		90-110	02-JUN-11
WG1289782-7	DUP	L1011536-1						
Conductivity		1330	1330		umhos/cm	0.13	10	02-JUN-11
F-IC-WP		Water						
Batch	R2197723							
WG1289025-3	DUP	L1011291-3						
Fluoride		<0.10	<0.10	RPD-NA	mg/L	N/A	20	01-JUN-11
WG1289025-2	LCS							
Fluoride			102		%		85-115	01-JUN-11
WG1289025-1	MB							
Fluoride			<0.10		mg/L		0.1	01-JUN-11
WG1289025-4	MS	L1011291-3						
Fluoride			104		%		75-125	01-JUN-11
HG-D-CVAF-WP		Water						
Batch	R2203120							
WG1294817-3	DUP	L1010336-3						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
WG1294817-5	DUP	L1011291-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	08-JUN-11
WG1294817-2	LCS							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAF-WP								
	Water							
Batch	R2203120							
WG1294817-2	LCS							
Mercury (Hg)-Dissolved			92		%		80-120	08-JUN-11
Mercury (Hg)-Dissolved			92		%		80-120	08-JUN-11
WG1294816-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
WG1294817-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	08-JUN-11
WG1294817-4	MS	L1010336-3						
Mercury (Hg)-Dissolved			99		%		70-130	08-JUN-11
Mercury (Hg)-Dissolved			99		%		70-130	08-JUN-11
WG1294817-6	MS	L1011291-1						
Mercury (Hg)-Dissolved			91		%		70-130	08-JUN-11
Mercury (Hg)-Dissolved			91		%		70-130	08-JUN-11
HG-T-CVAF-WP								
	Water							
Batch	R2198344							
WG1289697-3	DUP	L1009186-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-5	DUP	L1010393-5						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	02-JUN-11
WG1289697-2	LCS							
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
Mercury (Hg)-Total			101		%		80-120	02-JUN-11
WG1289697-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	02-JUN-11
WG1289697-4	MS	L1009186-1						
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
Mercury (Hg)-Total			109		%		70-130	02-JUN-11
WG1289697-6	MS	L1010393-5						
Mercury (Hg)-Total			115		%		70-130	02-JUN-11
Mercury (Hg)-Total			115		%		70-130	02-JUN-11

MET-D-L-MS-WP Water



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2199629							
WG1291143-4	DUP	WG1291143-3						
Aluminum (Al)-Dissolved		0.0055	0.0051		mg/L	7.3	400	04-JUN-11
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	04-JUN-11
Arsenic (As)-Dissolved		0.00357	0.00361		mg/L	1.2	20	04-JUN-11
Barium (Ba)-Dissolved		0.0508	0.0506		mg/L	0.51	20	04-JUN-11
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	04-JUN-11
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	04-JUN-11
Boron (B)-Dissolved		0.023	0.025		mg/L	8.1	400	04-JUN-11
Cadmium (Cd)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	04-JUN-11
Calcium (Ca)-Dissolved		96.6	96.6		mg/L	0.0	20	04-JUN-11
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	04-JUN-11
Chromium (Cr)-Dissolved		0.0050	0.0054		mg/L	8.2	400	04-JUN-11
Cobalt (Co)-Dissolved		0.00045	0.00046		mg/L	2.4	400	04-JUN-11
Copper (Cu)-Dissolved		0.00042	0.00046		mg/L	8.4	400	04-JUN-11
Iron (Fe)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	04-JUN-11
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	400	04-JUN-11
Lithium (Li)-Dissolved		0.0180	0.0175		mg/L	2.7	20	04-JUN-11
Magnesium (Mg)-Dissolved		24.4	24.4		mg/L	0.31	20	04-JUN-11
Manganese (Mn)-Dissolved		0.273	0.274		mg/L	0.50	20	04-JUN-11
Molybdenum (Mo)-Dissolved		0.00075	0.00080		mg/L	7.0	20	04-JUN-11
Nickel (Ni)-Dissolved		0.0011	0.0011		mg/L	6.4	400	04-JUN-11
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	04-JUN-11
Potassium (K)-Dissolved		3.79	3.78		mg/L	0.21	20	04-JUN-11
Rubidium (Rb)-Dissolved		0.00131	0.00133		mg/L	1.6	20	04-JUN-11
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	04-JUN-11
Silicon (Si)-Dissolved		9.53	9.39		mg/L	1.5	20	04-JUN-11
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	04-JUN-11
Sodium (Na)-Dissolved		5.65	5.60		mg/L	0.81	20	04-JUN-11
Strontium (Sr)-Dissolved		0.160	0.162		mg/L	1.0	20	04-JUN-11
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	04-JUN-11
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	04-JUN-11
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	04-JUN-11
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	04-JUN-11
Titanium (Ti)-Dissolved		0.00041	0.00034		mg/L			04-JUN-11



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Workorder: L1011306

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R2199629							
WG1291143-4	DUP	WG1291143-3						
Titanium (Ti)-Dissolved		0.00041	0.00034		mg/L	18	400	04-JUN-11
Tungsten (W)-Dissolved		0.00197	0.00195		mg/L	1.2	20	04-JUN-11
Uranium (U)-Dissolved		0.00044	0.00043		mg/L	1.8	400	04-JUN-11
Zinc (Zn)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	04-JUN-11
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	04-JUN-11
WG1291143-2	LCS							
Aluminum (Al)-Dissolved			99		%		80-120	03-JUN-11
Antimony (Sb)-Dissolved			98		%		80-120	03-JUN-11
Arsenic (As)-Dissolved			98		%		80-120	03-JUN-11
Barium (Ba)-Dissolved			102		%		80-120	03-JUN-11
Beryllium (Be)-Dissolved			100		%		80-120	03-JUN-11
Bismuth (Bi)-Dissolved			97		%		80-120	03-JUN-11
Boron (B)-Dissolved			98		%		80-120	03-JUN-11
Cadmium (Cd)-Dissolved			101		%		80-120	03-JUN-11
Calcium (Ca)-Dissolved			97		%		80-120	03-JUN-11
Cesium (Cs)-Dissolved			104		%		80-120	03-JUN-11
Chromium (Cr)-Dissolved			101		%		80-120	03-JUN-11
Cobalt (Co)-Dissolved			102		%		80-120	03-JUN-11
Copper (Cu)-Dissolved			97		%		80-120	03-JUN-11
Iron (Fe)-Dissolved			99		%		80-120	03-JUN-11
Lead (Pb)-Dissolved			98		%		80-120	03-JUN-11
Lithium (Li)-Dissolved			102		%		80-120	03-JUN-11
Magnesium (Mg)-Dissolved			100		%		80-120	03-JUN-11
Manganese (Mn)-Dissolved			101		%		80-120	03-JUN-11
Molybdenum (Mo)-Dissolved			108		%		80-120	03-JUN-11
Nickel (Ni)-Dissolved			96		%		80-120	03-JUN-11
Phosphorus (P)-Dissolved			99		%		80-120	03-JUN-11
Potassium (K)-Dissolved			100		%		80-120	03-JUN-11
Rubidium (Rb)-Dissolved			106		%		80-120	03-JUN-11
Selenium (Se)-Dissolved			95		%		80-120	03-JUN-11
Silicon (Si)-Dissolved			100		%		80-120	03-JUN-11
Silver (Ag)-Dissolved			100		%		80-120	03-JUN-11
Sodium (Na)-Dissolved			109		%		80-120	03-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2199629							
WG1291143-2 LCS								
Strontium (Sr)-Dissolved			107		%		80-120	03-JUN-11
Tellurium (Te)-Dissolved			90		%		80-120	03-JUN-11
Thallium (Tl)-Dissolved			100		%		80-120	03-JUN-11
Thorium (Th)-Dissolved			102		%		80-120	03-JUN-11
Tin (Sn)-Dissolved			107		%		80-120	03-JUN-11
Titanium (Ti)-Dissolved			100		%		80-120	03-JUN-11
Tungsten (W)-Dissolved			100		%		80-120	03-JUN-11
Uranium (U)-Dissolved			106		%		80-120	03-JUN-11
Zinc (Zn)-Dissolved			93		%		80-120	03-JUN-11
Zirconium (Zr)-Dissolved			104		%		80-120	03-JUN-11
WG1291143-1 MB								
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.02	03-JUN-11
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.001	03-JUN-11
Arsenic (As)-Dissolved			<0.00020		mg/L		0.001	03-JUN-11
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0005	03-JUN-11
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.001	03-JUN-11
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0005	03-JUN-11
Boron (B)-Dissolved			<0.010		mg/L		0.03	03-JUN-11
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.0002	03-JUN-11
Calcium (Ca)-Dissolved			<0.050		mg/L		0.2	03-JUN-11
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0005	03-JUN-11
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	03-JUN-11
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0005	03-JUN-11
Copper (Cu)-Dissolved			<0.00020		mg/L		0.002	03-JUN-11
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	03-JUN-11
Lead (Pb)-Dissolved			<0.000090		mg/L		0.001	03-JUN-11
Lithium (Li)-Dissolved			<0.0020		mg/L		0.01	03-JUN-11
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.05	03-JUN-11
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.001	03-JUN-11
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0005	03-JUN-11
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.002	03-JUN-11
Phosphorus (P)-Dissolved			<0.10		mg/L		0.5	03-JUN-11
Potassium (K)-Dissolved			<0.020		mg/L		0.1	03-JUN-11
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0005	03-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch R2199629								
WG1291143-1 MB								
Selenium (Se)-Dissolved			<0.0010		mg/L		0.005	03-JUN-11
Silicon (Si)-Dissolved			<0.050		mg/L		0.3	03-JUN-11
Silver (Ag)-Dissolved			<0.00010		mg/L		0.001	03-JUN-11
Sodium (Na)-Dissolved			<0.020		mg/L		0.05	03-JUN-11
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0005	03-JUN-11
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.001	03-JUN-11
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.005	03-JUN-11
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	03-JUN-11
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0006	03-JUN-11
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.001	03-JUN-11
Tungsten (W)-Dissolved			<0.00020		mg/L		0.002	03-JUN-11
Uranium (U)-Dissolved			<0.00010		mg/L		0.0005	03-JUN-11
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.02	03-JUN-11
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.001	03-JUN-11
MET-T-L-MS-WP		Water						
Batch R2198215								
WG1288813-4 DUP		WG1288813-3						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	02-JUN-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Arsenic (As)-Total		0.00132	0.00133		mg/L	1.1	20	02-JUN-11
Barium (Ba)-Total		0.0267	0.0269		mg/L	0.93	20	02-JUN-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Boron (B)-Total		0.015	0.014		mg/L	6.2	400	02-JUN-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	02-JUN-11
Calcium (Ca)-Total		45.0	43.4		mg/L	3.5	20	02-JUN-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Copper (Cu)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Iron (Fe)-Total		0.17	0.17		mg/L	0.74	400	02-JUN-11
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	400	02-JUN-11
Lithium (Li)-Total		0.0056	0.0054		mg/L	3.5	400	02-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2198215							
WG1288813-4	DUP	WG1288813-3						
Magnesium (Mg)-Total		13.4	13.1		mg/L	2.4	20	02-JUN-11
Manganese (Mn)-Total		0.0421	0.0435		mg/L	3.2	20	02-JUN-11
Molybdenum (Mo)-Total		0.00039	0.00039		mg/L	0.77	400	02-JUN-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	02-JUN-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	02-JUN-11
Potassium (K)-Total		1.54	1.47		mg/L	4.2	20	02-JUN-11
Rubidium (Rb)-Total		0.00116	0.00115		mg/L	1.0	20	02-JUN-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Silicon (Si)-Total		3.99	3.81		mg/L	4.5	20	02-JUN-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Sodium (Na)-Total		51.7	51.3		mg/L	0.76	20	02-JUN-11
Strontium (Sr)-Total		0.0853	0.0849		mg/L	0.45	20	02-JUN-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	02-JUN-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Titanium (Ti)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Uranium (U)-Total		0.00031	0.00032		mg/L	2.9	400	02-JUN-11
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	02-JUN-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	02-JUN-11
WG1288813-6	DUP	WG1288813-5						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	02-JUN-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Arsenic (As)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Barium (Ba)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	02-JUN-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	02-JUN-11
Calcium (Ca)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	02-JUN-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2198215							
WG1288813-6	DUP	WG1288813-5						
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Copper (Cu)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Iron (Fe)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	02-JUN-11
Lithium (Li)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	02-JUN-11
Magnesium (Mg)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	02-JUN-11
Manganese (Mn)-Total		<0.00030	<0.00030	RPD-NA	mg/L	N/A	400	02-JUN-11
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	02-JUN-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	02-JUN-11
Potassium (K)-Total		<0.020	<0.020	RPD-NA	mg/L	N/A	400	02-JUN-11
Rubidium (Rb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Silicon (Si)-Total		<0.050	<0.050	RPD-NA	mg/L	N/A	400	02-JUN-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Sodium (Na)-Total		<0.030	<0.030	RPD-NA	mg/L	N/A	400	02-JUN-11
Strontium (Sr)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	02-JUN-11
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Titanium (Ti)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	02-JUN-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	02-JUN-11
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	02-JUN-11
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	02-JUN-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	02-JUN-11
WG1288813-2	LCS							
Aluminum (Al)-Total			105		%		80-120	02-JUN-11
Antimony (Sb)-Total			96		%		80-120	02-JUN-11
Arsenic (As)-Total			100		%		80-120	02-JUN-11
Barium (Ba)-Total			104		%		80-120	02-JUN-11
Beryllium (Be)-Total			100		%		80-120	02-JUN-11



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Workorder: L1011306

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2198215							
WG1288813-2	LCS							
Bismuth (Bi)-Total			100		%		80-120	02-JUN-11
Boron (B)-Total			98		%		80-120	02-JUN-11
Cadmium (Cd)-Total			103		%		80-120	02-JUN-11
Calcium (Ca)-Total			102		%		80-120	02-JUN-11
Cesium (Cs)-Total			103		%		80-120	02-JUN-11
Chromium (Cr)-Total			103		%		80-120	02-JUN-11
Cobalt (Co)-Total			108		%		80-120	02-JUN-11
Copper (Cu)-Total			103		%		80-120	02-JUN-11
Iron (Fe)-Total			105		%		80-120	02-JUN-11
Lead (Pb)-Total			99		%		80-120	02-JUN-11
Lithium (Li)-Total			100		%		80-120	02-JUN-11
Magnesium (Mg)-Total			101		%		80-120	02-JUN-11
Manganese (Mn)-Total			105		%		80-120	02-JUN-11
Molybdenum (Mo)-Total			102		%		80-120	02-JUN-11
Nickel (Ni)-Total			101		%		80-120	02-JUN-11
Phosphorus (P)-Total			109		%		80-120	02-JUN-11
Potassium (K)-Total			101		%		80-120	02-JUN-11
Rubidium (Rb)-Total			104		%		80-120	02-JUN-11
Selenium (Se)-Total			102		%		80-120	02-JUN-11
Silicon (Si)-Total			104		%		80-120	02-JUN-11
Silver (Ag)-Total			99		%		80-120	02-JUN-11
Sodium (Na)-Total			104		%		80-120	02-JUN-11
Strontium (Sr)-Total			102		%		80-120	02-JUN-11
Tellurium (Te)-Total			101		%		80-120	02-JUN-11
Thallium (Tl)-Total			100		%		80-120	02-JUN-11
Thorium (Th)-Total			97		%		70-130	02-JUN-11
Tin (Sn)-Total			101		%		80-120	02-JUN-11
Titanium (Ti)-Total			101		%		80-120	02-JUN-11
Tungsten (W)-Total			100		%		80-120	02-JUN-11
Uranium (U)-Total			104		%		80-120	02-JUN-11
Vanadium (V)-Total			104		%		80-120	02-JUN-11
Zinc (Zn)-Total			101		%		80-120	02-JUN-11
Zirconium (Zr)-Total			101		%		80-120	02-JUN-11

WG1288813-1 MB



Quality Control Report

Workorder: L1011306

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2198215							
WG1288813-1 MB								
Aluminum (Al)-Total			<0.0050		mg/L		0.02	02-JUN-11
Antimony (Sb)-Total			<0.00020		mg/L		0.001	02-JUN-11
Arsenic (As)-Total			<0.00020		mg/L		0.001	02-JUN-11
Barium (Ba)-Total			<0.00020		mg/L		0.0005	02-JUN-11
Beryllium (Be)-Total			<0.00020		mg/L		0.001	02-JUN-11
Bismuth (Bi)-Total			<0.00020		mg/L		0.0005	02-JUN-11
Boron (B)-Total			<0.010		mg/L		0.03	02-JUN-11
Cadmium (Cd)-Total			<0.000010		mg/L		0.0002	02-JUN-11
Calcium (Ca)-Total			<0.10		mg/L		0.2	02-JUN-11
Cesium (Cs)-Total			<0.00010		mg/L		0.0005	02-JUN-11
Chromium (Cr)-Total			<0.0010		mg/L		0.002	02-JUN-11
Cobalt (Co)-Total			<0.00020		mg/L		0.0005	02-JUN-11
Copper (Cu)-Total			<0.00020		mg/L		0.002	02-JUN-11
Iron (Fe)-Total			<0.10		mg/L		0.1	02-JUN-11
Lead (Pb)-Total			<0.000090		mg/L		0.001	02-JUN-11
Lithium (Li)-Total			<0.0020		mg/L		0.002	02-JUN-11
Magnesium (Mg)-Total			<0.010		mg/L		0.05	02-JUN-11
Manganese (Mn)-Total			<0.00030		mg/L		0.001	02-JUN-11
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0005	02-JUN-11
Nickel (Ni)-Total			<0.0020		mg/L		0.002	02-JUN-11
Phosphorus (P)-Total			<0.20		mg/L		0.5	02-JUN-11
Potassium (K)-Total			<0.020		mg/L		0.1	02-JUN-11
Rubidium (Rb)-Total			<0.00020		mg/L		0.0005	02-JUN-11
Selenium (Se)-Total			<0.0010		mg/L		0.005	02-JUN-11
Silicon (Si)-Total			<0.050		mg/L		0.3	02-JUN-11
Silver (Ag)-Total			<0.00010		mg/L		0.001	02-JUN-11
Sodium (Na)-Total			<0.030		mg/L		0.05	02-JUN-11
Strontium (Sr)-Total			<0.00010		mg/L		0.0005	02-JUN-11
Tellurium (Te)-Total			<0.00020		mg/L		0.001	02-JUN-11
Thallium (Tl)-Total			<0.00010		mg/L		0.005	02-JUN-11
Thorium (Th)-Total			<0.00010		mg/L		0.0001	02-JUN-11
Tin (Sn)-Total			<0.00020		mg/L		0.0006	02-JUN-11
Titanium (Ti)-Total			<0.00020		mg/L		0.001	02-JUN-11



Quality Control Report

Workorder: L1011306

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2198215							
WG1288813-1 MB								
Tungsten (W)-Total			<0.0010		mg/L		0.002	02-JUN-11
Uranium (U)-Total			<0.00010		mg/L		0.0005	02-JUN-11
Vanadium (V)-Total			<0.00020		mg/L		0.002	02-JUN-11
Zinc (Zn)-Total			<0.0050		mg/L		0.02	02-JUN-11
Zirconium (Zr)-Total			<0.00040		mg/L		0.001	02-JUN-11
N-TOTKJ-WP		Water						
Batch	R2199162							
WG1290701-1 CVS								
Total Kjeldahl Nitrogen			94		%		90-110	06-JUN-11
WG1288807-4 DUP	L1011302-2							
Total Kjeldahl Nitrogen		<0.20	<0.20	RPD-NA	mg/L	N/A	20	06-JUN-11
WG1288807-7 DUP	L1011353-2							
Total Kjeldahl Nitrogen		2.48	2.49		mg/L	0.40	20	06-JUN-11
WG1288807-2 LCS								
Total Kjeldahl Nitrogen			90		%		75-125	06-JUN-11
WG1288807-1 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	06-JUN-11
WG1288807-5 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	06-JUN-11
WG1288807-3 MS	L1011302-2							
Total Kjeldahl Nitrogen			92		%		70-130	06-JUN-11
WG1288807-6 MS	L1011353-2							
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	06-JUN-11
NH3-COL-WP		Water						
Batch	R2202824							
WG1294526-3 DUP	L1015768-1							
Ammonia as N		0.87	0.87		mg/L	0.20	20	10-JUN-11
WG1294526-2 LCS								
Ammonia as N			98		%		85-115	10-JUN-11
WG1294526-1 MB								
Ammonia as N			<0.050		mg/L		0.05	10-JUN-11
WG1294526-4 MS	L1012940-7							
Ammonia as N			115		%		75-125	10-JUN-11
WG1294526-5 MS	L1012248-1							
Ammonia as N			100		%		75-125	10-JUN-11
NO2-IC-WP		Water						



Quality Control Report

Workorder: L1011306

Report Date: 14-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-IC-WP		Water						
Batch	R2197723							
WG1289025-3	DUP	L1011291-3						
Nitrite-N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	01-JUN-11
WG1289025-2	LCS							
Nitrite-N			103		%		85-115	01-JUN-11
WG1289025-1	MB							
Nitrite-N			<0.050		mg/L		0.05	01-JUN-11
WG1289025-4	MS	L1011291-3						
Nitrite-N			95		%		75-125	01-JUN-11
NO3-IC-WP		Water						
Batch	R2197723							
WG1289025-3	DUP	L1011291-3						
Nitrate-N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	01-JUN-11
WG1289025-2	LCS							
Nitrate-N			99		%		85-115	01-JUN-11
WG1289025-1	MB							
Nitrate-N			<0.050		mg/L		0.05	01-JUN-11
WG1289025-4	MS	L1011291-3						
Nitrate-N			94		%		75-125	01-JUN-11
P-T-COL-WP		Water						
Batch	R2197462							
WG1288518-3	DUP	L1011388-2						
Phosphorus (P)-Total		0.164	0.162		mg/L	1.2	20	02-JUN-11
WG1288518-4	DUP	L1011423-2						
Phosphorus (P)-Total		12.7	12.7		mg/L	0.0	20	02-JUN-11
WG1288518-5	DUP	L1011274-1						
Phosphorus (P)-Total		18.8	17.0		mg/L	10	20	02-JUN-11
WG1288518-2	LCS							
Phosphorus (P)-Total			103		%		80-120	02-JUN-11
WG1288518-1	MB							
Phosphorus (P)-Total			<0.010		mg/L		0.01	02-JUN-11
WG1288518-6	MS	L1011230-2						
Phosphorus (P)-Total			87		%		70-130	02-JUN-11
WG1288518-7	MS	L1011274-3						
Phosphorus (P)-Total			106		%		70-130	02-JUN-11
WG1288518-8	MS	L1011528-1						
Phosphorus (P)-Total			102		%		70-130	02-JUN-11
PH-WP	Water							



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WP		Water						
Batch	R2198424							
WG1289782-4	DUP	L1011952-6						
pH		8.26	8.27	J	pH units	0.01	0.2	02-JUN-11
WG1289782-7	DUP	L1011536-1						
pH		7.74	7.82	J	pH units	0.08	0.2	02-JUN-11
WG1289782-2	LCS							
pH			7.41		pH units		7.3-7.5	02-JUN-11
SIO2-L-COL-WP		Water						
Batch	R2202013							
WG1293531-5	DUP	L1010336-2						
Silica, Reactive (as SiO2)		5.20	5.03		mg/L	3.5	20	10-JUN-11
WG1293531-6	DUP	L1011306-1						
Silica, Reactive (as SiO2)		0.185	0.185		mg/L	0.11	20	10-JUN-11
WG1293531-2	LCS							
Silica, Reactive (as SiO2)			107		%		85-115	10-JUN-11
WG1293531-1	MB							
Silica, Reactive (as SiO2)			<0.0050		mg/L		0.005	10-JUN-11
WG1293531-3	MS	L1011291-1						
Silica, Reactive (as SiO2)			122		%		75-125	10-JUN-11
WG1293531-4	MS	L1012522-3						
Silica, Reactive (as SiO2)			112		%		75-125	10-JUN-11
SO4-IC-WP		Water						
Batch	R2197723							
WG1289025-3	DUP	L1011291-3						
Sulfate		1.15	1.15		mg/L	0.078	20	01-JUN-11
WG1289025-2	LCS							
Sulfate			101		%		85-115	01-JUN-11
WG1289025-1	MB							
Sulfate			<0.50		mg/L		0.5	01-JUN-11
WG1289025-4	MS	L1011291-3						
Sulfate			99		%		75-125	01-JUN-11
SOLIDS-TDS-WP		Water						
Batch	R2199780							
WG1290500-2	CVS							
Total Dissolved Solids			101		%		85-115	06-JUN-11
WG1290500-10	DUP	L1012946-1						
Total Dissolved Solids		1450	1480		mg/L	2.0	20	06-JUN-11
WG1290500-3	DUP	L1011306-1						



Quality Control Report

Workorder: L1011306

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TDS-WP		Water						
Batch	R2199780							
WG1290500-3	DUP	L1011306-1						
Total Dissolved Solids		194	210		mg/L	7.9	20	06-JUN-11
WG1290500-8	DUP	L1012522-7						
Total Dissolved Solids		416	428		mg/L	2.8	20	06-JUN-11
WG1290500-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	06-JUN-11
SOLIDS-TOTSUS-WP		Water						
Batch	R2199780							
WG1290500-2	CVS							
Total Suspended Solids			98		%		85-115	06-JUN-11
WG1290500-10	DUP	L1012946-1						
Total Suspended Solids		410	430		mg/L	4.8	20	06-JUN-11
WG1290500-3	DUP	L1011306-1						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	400	06-JUN-11
WG1290500-8	DUP	L1012522-7						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	400	06-JUN-11
WG1290500-1	MB							
Total Suspended Solids			<5.0		mg/L		5	06-JUN-11
TURBIDITY-WP		Water						
Batch	R2197853							
WG1289220-3	DUP	L1011238-2						
Turbidity		1.10	1.05		NTU	4.7	15	01-JUN-11
WG1289220-2	LCS							
Turbidity			100		%		85-115	01-JUN-11
WG1289220-1	MB							
Turbidity			<0.10		NTU		0.1	01-JUN-11

Quality Control Report

Workorder: L1011306

Report Date: 14-JUN-11

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L1011306

Report Date: 14-JUN-11

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Turbidity	1	30-MAY-11 15:28	01-JUN-11 17:52	48	50	hours	EHTL
	2	30-MAY-11 13:42	01-JUN-11 17:52	48	52	hours	EHTL
pH	1	30-MAY-11 15:28	02-JUN-11 15:05	0.25	72	hours	EHTR-FM
	2	30-MAY-11 13:42	02-JUN-11 15:05	0.25	73	hours	EHTR-FM
Anions and Nutrients							
Bromide	2	30-MAY-11 13:42	01-JUN-11 15:26	48	50	hours	EHTL
	2	30-MAY-11 13:42	01-JUN-11 15:26	48	50	hours	EHTL
Nitrate as N	2	30-MAY-11 13:42	01-JUN-11 15:26	48	50	hours	EHTL
	2	30-MAY-11 13:42	01-JUN-11 15:26	48	50	hours	EHTL
Nitrite as N	2	30-MAY-11 13:42	01-JUN-11 15:26	48	50	hours	EHTL
	2	30-MAY-11 13:42	01-JUN-11 15:26	48	50	hours	EHTL
Phosphorus, Total	1	30-MAY-11 15:28	01-JUN-11 16:55	48	49	hours	EHTL
	2	30-MAY-11 13:42	01-JUN-11 16:55	48	51	hours	EHTL

Legend & Qualifier Definitions:

- EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
- EHTR: Exceeded ALS recommended hold time prior to sample receipt.
- EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
- EHT: Exceeded ALS recommended hold time prior to analysis.
- Rec. HT: ALS recommended hold time (see units).

Notes*:
 Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
 Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1011306 were received on 01-JUN-11 08:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L1011306



Report To
 Company: AECOM -W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone: Fax:
 Invoice To Same as Report? Yes No
 Hardcopy of Invoice with Report? Yes No
 Company:
 Contact:
 Address:
 Phone: Fax:
 Quote #: Q24534
 ALS Contact: *Christine Pleas* Sampler: SK, MH
 Client / Project Information
 Job #: 60212435-200
 PO / AFE:
 LSD:
 Email 1: cliff.samoiloff@aecom.com
 Email 2: shawna.kjartanson@aecom.com
 Email 3:
 Service Requested (Rush for routine analysis subject to availability)
 Regular (Standard Turnaround Times - Business Days)
 Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
 Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
 Same Day or Weekend Emergency - Contact ALS to Confirm TAT

Analysis Request
 Please indicate below Filtered, Preserved or both (F, P, F/P)

Sample #	Lab Work Order # (lab use only)	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hr:mm)	Sample Type	Chlorophylla / Pheophytin	Acidity, Colour, Turbidity	Anions, Br, silica, ph, ec, Alk	NH3, TKN, PT	CBOD	Solids (TSS, TDS)	Metals & HG - Total	Metals & Hg - Dissolved	TOC, DOC	Number of Containers
	STC-02		30MAY11	15:28	water	X	X	X	X	X	X	X	X	X	6
	STC-03		30MAY11	13:42	water	X	X	X	X	X	X	X	X	X	6

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)
 Released by: *[Signature]* Date: *June 11* Time: *8:20*
 Received by: *[Signature]* Date: *June 11* Time: *8:20* Temperature: *7°C*

SHIPMENT VERIFICATION (lab use only)
 Verified by: Date: Time: Observations: Yes / No? If Yes add SIF



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 01-JUN-11
Report Date: 30-SEP-11 12:55 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1011308
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-300
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011308-1 THC-01 (PHYTO) Sampled By: CLIENT on 21-MAY-11 @ 14:00 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					29-SEP-11	R2260226
L1011308-2 TED-01 (PHYTO) Sampled By: CLIENT on 20-MAY-11 @ 14:30 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					29-SEP-11	R2260226
L1011308-3 GHL-03 (PHYTO) Sampled By: CLIENT on 20-MAY-11 @ 12:35 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					29-SEP-11	R2260226
L1011308-4 ANB-07 (PHYTO) Sampled By: CLIENT on 24-MAY-11 @ 10:00 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					29-SEP-11	R2260226
L1011308-5 UCI-01 (PHYTO) Sampled By: CLIENT on 21-MAY-11 @ 11:45 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					29-SEP-11	R2260226
L1011308-6 GHC-01 (PHYTO) Sampled By: CLIENT on 21-MAY-11 @ 15:00 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					29-SEP-11	R2260226
L1011308-7 ANC-02 (PHYTO) Sampled By: CLIENT on 22-MAY-11 @ 13:00 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					29-SEP-11	R2260226
L1011308-8 NTL-01 (PHYTO) Sampled By: CLIENT on 28-MAY-11 @ 14:00 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					29-SEP-11	R2260226
L1011308-9 GSL-01 (PHYTO) Sampled By: CLIENT on 28-MAY-11 @ 10:00 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					29-SEP-11	R2260226
L1011308-10 ARL-01 (PHYTO) Sampled By: CLIENT on 29-MAY-11 @ 15:41 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					29-SEP-11	R2260226

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011308-11 ULI-01 (PHYTO) Sampled By: CLIENT on 29-MAY-11 @ 10:35 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					29-SEP-11	R2260226
L1011308-12 THL-02 (PHYTO) Sampled By: CLIENT on 27-MAY-11 @ 15:18 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					29-SEP-11	R2260226
L1011308-13 THC-01 (ZOOPL) Sampled By: CLIENT on 21-MAY-11 @ 14:00 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				30-SEP-11	30-SEP-11	R2260923
L1011308-14 TED-01 (ZOOPL) Sampled By: CLIENT on 20-MAY-11 @ 14:30 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				30-SEP-11	30-SEP-11	R2260923
L1011308-15 GHLL-03 (ZOOPL) Sampled By: CLIENT on 20-MAY-11 @ 12:35 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				30-SEP-11	30-SEP-11	R2260923
L1011308-16 ANB-07 (ZOOPL) Sampled By: CLIENT on 24-MAY-11 @ 10:00 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				30-SEP-11	30-SEP-11	R2260923
L1011308-17 UCI-01 (ZOOPL) Sampled By: CLIENT on 21-MAY-11 @ 11:45 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				30-SEP-11	30-SEP-11	R2260923
L1011308-18 GHC-01 (ZOOPL) Sampled By: CLIENT on 21-MAY-11 @ 15:00 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				30-SEP-11	30-SEP-11	R2260923
L1011308-19 ANC-02 (ZOOPL) Sampled By: CLIENT on 22-MAY-11 @ 13:00 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				30-SEP-11	30-SEP-11	R2260923
L1011308-20 NTL-01 (ZOOPL) Sampled By: CLIENT on 28-MAY-11 @ 14:00 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				30-SEP-11	30-SEP-11	R2260923

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011308-21 GSL-01 (ZOO) Sampled By: CLIENT on 28-MAY-11 @ 10:00 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				30-SEP-11	30-SEP-11	R2260923
L1011308-22 ARL-01 (ZOO) Sampled By: CLIENT on 29-MAY-11 @ 15:41 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				30-SEP-11	30-SEP-11	R2260923
L1011308-23 ULI-01 (ZOO) Sampled By: CLIENT on 29-MAY-11 @ 10:35 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				30-SEP-11	30-SEP-11	R2260923
L1011308-24 THL-02 (ZOO) Sampled By: CLIENT on 27-MAY-11 @ 15:18 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				30-SEP-11	30-SEP-11	R2260923

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
PHYTO-BIO-WP	Water	Phytoplankton Biovolumes	Standard Methods 10200, 1998

This procedure is applicable to the identification and enumeration of microscopic organisms occurring within samples of fresh water. Samples are prepared using a sedimentation technique, and are then examined using a compound phase contrast inverted microscope. Both phytoplankton and zooplankton are identified to species where possible, enumerated and reported.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1011308

Report Date: 30-SEP-11

Page 1 of 2

Client: AECOM Canada Ltd. (Winnipeg)
99 Commerce Drive
Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
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Quality Control Report

Workorder: L1011308

Report Date: 30-SEP-11

Page 2 of 2

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



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Phytoplankton Sample Results

Lab Number: L1011308-1

Work Order: L1011308

Date Sampled: May 21, 2011

Submitter:

Source: THC-01 (PHYTO)

WQNum

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume μ3	Total Biovolume μ3
Bacillariophyceae	<i>Eunotia</i>	sp.	800	1440	1152000
Bacillariophyceae	<i>Navicula</i>	sp.	1200	2240	2688000
Bacillariophyceae	<i>Nitzschia</i>	sp.	13600	270	3672000
Chlorophyceae	<i>Cosmarium</i>	sp.	400	3000	1200000
Chlorophyceae	<i>Crucigenia</i>	sp.	9900	96	950400
Chlorophyceae	<i>Dictyosphaerium</i>	sp.	2500	27000	67500000
Chlorophyceae	<i>Elakatothrix</i>	sp.	5000	80	400000
Chlorophyceae	<i>Monoraphidium</i>	sp.	8700	120	1044000
Chlorophyceae	<i>Pediastrum</i>	tetras	400	1600	640000
Chlorophyceae	<i>Quadrigula</i>	sp.	5000	60	300000
Chlorophyceae	<i>Scenedesmus</i>	sp.	5000	160	800000
Chlorophyceae	<i>Tetraedron</i>	minimum	2500	144	360000
Chrysophyceae	<i>Bitrichia</i>	sp.	3700	360	1332000
Chrysophyceae	<i>Dinobryon</i>	bavaricum	12400	540	6696000
Chrysophyceae	<i>Dinobryon</i>	sp.	47100	540	25434000
Chrysophyceae	<i>small chrysophytes</i>		480000	64	30720000
Coccinodiscophyceae	<i>Cyclotella</i>	sp.	200	13500	2700000
Cryptophyceae	<i>Cryptomonas</i>	sp.	9900	2000	19800000
Cryptophyceae	<i>Rhodomonas</i>	sp.	2500	360	900000

Date Printed: September 29, 2011

Lab Number: L1011308-1**Work Order: L1011308**

May 21, 2011

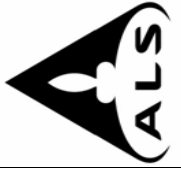
Submitter:

THC-01 (PHYTO)

WQNum**Source:****Sample Type** WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Cyanophyceae	<i>Aphanocapsa</i>	<i>sp.</i>	3700	64000	236800000
Cyanophyceae	<i>Oscillatoria</i>	<i>limosa</i>	200	51200	10240000
Cyanophyceae	<i>Oscillatoria</i>	<i>sp.</i>	800	15360	12288000
Cyanophyceae	<i>Planktolyngbya</i>	<i>sp.</i>	403200	240	96768000
Cyanophyceae	<i>Pseudanabaena</i>	<i>sp.</i>	1200	180	216000
Cyanophyceae	<i>Spirulina</i>	<i>sp.</i>	400	720	288000
Dinophyceae	<i>Gymnodinium</i>	<i>sp.</i>	3700	4500	16650000
Dinophyceae	<i>Peridinium</i>	<i>sp.</i>	400	162500	65000000
Fragilariophyceae	<i>Synedra</i>	<i>sp.</i>	5000	630	3150000
Fragilariophyceae	<i>Tabellaria</i>	<i>sp.</i>	26000	960	24960000

Date Printed: September 29, 2011



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Phytoplankton Sample Results

Lab Number: L1011308-10

Work Order: L1011308

Date Sampled: May 29, 2011

Submitter:

Source: ARL-01 (PHYTO)

WQNum

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Bacillariophyceae	<i>Navicula</i>	<i>sp.</i>	3700	3000	11100000
Bacillariophyceae	<i>Nitzschia</i>	<i>sp.</i>	6200	640	3968000
Chlorophyceae	<i>Botryococcus</i>	<i>sp.</i>	400	5120000	2048000000
Chlorophyceae	<i>Coelastrum</i>	<i>sp.</i>	200	27000	5400000
Chlorophyceae	<i>Cosmarium</i>	<i>sp.</i>	1200	18750	22500000
Chlorophyceae	<i>Crucigenia</i>	<i>quadrata</i>	6400	12	76800
Chlorophyceae	<i>Crucigenia</i>	<i>tetrapedia</i>	6400	36	230400
Chlorophyceae	<i>Dictyosphaerium</i>	<i>sp.</i>	400	27000	10800000
Chlorophyceae	<i>Elakatothrix</i>	<i>sp.</i>	4400	80	352000
Chlorophyceae	<i>Euastrum</i>	<i>sp.</i>	200	12000	2400000
Chlorophyceae	<i>Monoraphidium</i>	<i>sp.</i>	12400	120	1488000
Chlorophyceae	<i>Planktosphaeria</i>	<i>sp.</i>	200	8000	1600000
Chlorophyceae	<i>Quadrigula</i>	<i>sp.</i>	2400	120	288000
Chlorophyceae	<i>Scenedesmus</i>	<i>sp.</i>	29800	160	4768000
Chlorophyceae	<i>Staurastrum</i>	<i>sp.</i>	200	6750	1350000
Chlorophyceae	<i>Tetraedron</i>	<i>minimum</i>	6200	864	5356800
Chrysophyceae	<i>Dinobryon</i>	<i>sp.</i>	24800	540	13392000
Chrysophyceae	<i>small chrysophytes</i>		2304000	8	18432000
Cryptophyceae	<i>Cryptomonas</i>	<i>sp.</i>	18600	12000	223200000

Date Printed: September 29, 2011

Lab Number: L1011308-10 **Work Order: L1011308****Date Sampled:** May 29, 2011 **Submitter:**
Source: ARL-01 (PHYTO) **WQNum**

		Sample Type		WATER	
Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Cyanophyceae	<i>Anabaena</i>	<i>sp.</i>	400	8640	3456000
Cyanophyceae	<i>Aphanizomenon</i>	<i>sp.</i>	200	2880	576000
Cyanophyceae	<i>Aphanocapsa</i>	<i>sp.</i>	1200	27000	32400000
Cyanophyceae	<i>Gomphosphaeria</i>	<i>sp.</i>	2500	8000	20000000
Cyanophyceae	<i>Merismopedia</i>	<i>sp.</i>	79400	8	635200
Cyanophyceae	<i>Planktolyngbya</i>	<i>sp.</i>	3700	240	888000
Cyanophyceae	<i>Pseudanabaena</i>	<i>sp.</i>	2500	240	600000
Cyanophyceae	<i>Spirulina</i>	<i>sp.</i>	200	2400	480000
Dinophyceae	<i>Ceratium</i>	<i>hirundinella</i>	200	121500	24300000
Dinophyceae	<i>Gymnodinium</i>	<i>sp.</i>	800	27000	21600000
Fragilariophyceae	<i>Synedra</i>	<i>sp.</i>	1200	540	648000



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Phytoplankton Sample Results

Lab Number: L1011308-11

Work Order: L1011308

Date Sampled: May 29, 2011

Submitter:

Source: ULI-01 (PHYTO)

WQNum

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Bacillariophyceae	<i>Navicula</i>	<i>sp.</i>	24800	15750	390600000
Bacillariophyceae	<i>Nitzschia</i>	<i>sp.</i>	24800	480	11904000
Bacillariophyceae	<i>Pinnularia</i>	<i>sp.</i>	1000	87500	87500000
Chlorophyceae	<i>Ankistrodesmus</i>	<i>falcatus</i>	8000	200	1600000
Chlorophyceae	<i>Botryococcus</i>	<i>sp.</i>	1000	64000	64000000
Chlorophyceae	<i>Crucigenia</i>	<i>sp.</i>	322400	36	11606400
Chlorophyceae	<i>Elakatothrix</i>	<i>sp.</i>	4000	80	320000
Chlorophyceae	<i>Oocystis</i>	<i>sp.</i>	1000	4500	4500000
Chlorophyceae	<i>Pediastrum</i>	<i>Boryanum</i>	1000	25600	25600000
Chlorophyceae	<i>Pediastrum</i>	<i>tetras</i>	480000	900	432000000
Chlorophyceae	<i>Planktosphaeria</i>	<i>sp.</i>	1000	3375	3375000
Chlorophyceae	<i>Quadrigula</i>	<i>sp.</i>	37200	180	6696000
Chlorophyceae	<i>Scenedesmus</i>	<i>arcuatus</i>	16000	250	4000000
Chlorophyceae	<i>Scenedesmus</i>	<i>quadricauda</i>	24800	720	17856000
Chlorophyceae	<i>Scenedesmus</i>	<i>sp.</i>	235600	160	37696000
Chrysophyceae	<i>Bitrichia</i>	<i>sp.</i>	6200	128	793600
Chrysophyceae	<i>Chryso-sphaerella</i>	<i>longispina (colonies)</i>	12400	125000	1550000000
Chrysophyceae	<i>Dinobryon</i>	<i>bavaricum</i>	37200	540	20088000
Chrysophyceae	<i>Dinobryon</i>	<i>sp.</i>	384000	540	207360000

Date Printed: September 29, 2011

Lab Number: L1011308-11 **Work Order: L1011308**

Date Sampled: May 29, 2011 Submitter:

Source: ULI-01 (PHYTO) WQNum

		Sample Type		WATER	
Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Chrysophyceae	<i>small chrysophytes</i>		3264000	64	208896000
Cryptophyceae	<i>Cryptomonas</i>	<i>sp.</i>	18600	2000	37200000
Cyanophyceae	<i>Anabaena</i>	<i>sp.</i>	5000	4320	21600000
Cyanophyceae	<i>Aphanocapsa</i>	<i>sp.</i>	6200	274625	1702675000
Cyanophyceae	<i>Aphanothece</i>	<i>sp.</i>	86800	64000	5555200000
Cyanophyceae	<i>Lyngbya</i>	<i>sp.</i>	2000	9360	18720000
Cyanophyceae	<i>Merismopedia</i>	<i>sp.</i>	2628800	8	21030400
Cyanophyceae	<i>Planktolyngbya</i>	<i>sp.</i>	12400	360	4464000
Cyanophyceae	<i>Pseudanabaena</i>	<i>sp.</i>	6200	480	2976000
Cyanophyceae	<i>Radiocystis</i>	<i>sp.</i>	18600	64000	1190400000
Dinophyceae	<i>Ceratium</i>	<i>hirundinella</i>	1000	216000	216000000
Dinophyceae	<i>Gymnodinium</i>	<i>sp.</i>	1000	8000	8000000
Euglenophyceae	<i>Euglena</i>	<i>sp.</i>	1000	13500	13500000
Fragilariophyceae	<i>Synedra</i>	<i>sp.</i>	12400	540	6696000



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Phytoplankton Sample Results

Lab Number: L1011308-12 **Work Order:** L1011308

Date Sampled: May 27, 2011 **Submitter:**

Source: THL-02 (PHYTO) **WQNum**

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Bacillariophyceae	<i>Navicula</i>	<i>sp.</i>	12400	3500	43400000
Bacillariophyceae	<i>Nitzschia</i>	<i>sp.</i>	18600	960	17856000
Chlorophyceae	<i>Ankistrodesmus</i>	<i>sp.</i>	4000	200	800000
Chlorophyceae	<i>Elakatothrix</i>	<i>sp.</i>	5000	180	900000
Chlorophyceae	<i>Pediastrum</i>	<i>tetras</i>	1000	900	900000
Chlorophyceae	<i>Planktosphaeria</i>	<i>sp.</i>	6000	27000	162000000
Chlorophyceae	<i>Scenedesmus</i>	<i>sp.</i>	2000	160	320000
Chrysophyceae	<i>Bitrichia</i>	<i>sp.</i>	43400	128	5555200
Chrysophyceae	<i>Dinobryon</i>	<i>bavaricum</i>	480000	540	259200000
Chrysophyceae	<i>Dinobryon</i>	<i>sp.</i>	480000	540	259200000
Chrysophyceae	<i>small chrysophytes</i>		4800000	64	307200000
Cryptophyceae	<i>Cryptomonas</i>	<i>sp.</i>	49600	12000	595200000
Cyanophyceae	<i>Aphanocapsa</i>	<i>sp.</i>	6200	81000	502200000
Cyanophyceae	<i>Aphanothece</i>	<i>sp.</i>	6200	216000	1339200000
Cyanophyceae	<i>Chroococcus</i>	<i>sp.</i>	2000	6750	13500000
Cyanophyceae	<i>Gomphosphaeria</i>	<i>sp.</i>	3000	8000	24000000
Cyanophyceae	<i>Microcystis</i>	<i>sp.</i>	1000	135000	135000000
Cyanophyceae	<i>Planktolyngbya</i>	<i>sp.</i>	18600	480	8928000
Cyanophyceae	<i>Pseudanabaena</i>	<i>sp.</i>	2000	240	480000

Date Printed: September 29, 2011

Lab Number: L1011308-12 **Work Order: L1011308**

Date Sampled: May 27, 2011 **Submitter:**

Source: THL-02 (PHYTO) **WQNum**

Sample Type **WATER**

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Cyanophyceae	<i>Radiocystis</i>	<i>sp.</i>	2000	27000	54000000
Dinophyceae	<i>Gymnodinium</i>	<i>sp.</i>	3000	4500	13500000
Fragilariophyceae	<i>Synedra</i>	<i>sp.</i>	105400	765	80631000

Date Printed: September 29, 2011



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Zooplankton Sample Results

Lab Number: L1011308-13 **Work Order: L1011308**

Date Sampled: May 21, 2011
Source: THC-01 (ZOOP)

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume	µ3	Biovolume per Sample
Nematoda						30	4.80E+05		1.44E+07
Crustacea	Branchiopoda	Cladocera	Chydoridae	<i>Alona</i>	<i>sp.</i>	10	6.22E+07		6.22E+08
Crustacea	Branchiopoda	Cladocera	Bosminidae	<i>Bosmina</i>	<i>sp.</i>	70	8.64E+06		6.05E+08
Crustacea	Branchiopoda	Cladocera	Daphniidae	<i>Ceriodaphnia</i>	<i>sp.</i>	20	4.15E+07		8.29E+08
Protozoa	Ciliata	Holotrichida	Tracheliidae	<i>Trachelius</i>	<i>sp.</i>	20	1.62E+06		3.24E+07
Protozoa	Ciliata	Peritrichida	Vorticellidae	<i>Vorticella</i>	<i>sp.</i>	10	1.45E+06		1.45E+07
Crustacea	Copepoda	Calanoida	Diaptomidae	<i>Diaptomus</i>	<i>sp.</i>	40	1.94E+07		7.78E+08
Crustacea	Copepoda			<i>Nauplii</i>		2140	4.32E+05		9.24E+08
Crustacea	Copepoda	Calanoida		<i>To young to ID</i>		30	5.18E+06		1.56E+08
Crustacea	Copepoda	Cyclopoida		<i>To young to ID</i>		280	5.18E+06		1.45E+09
Protozoa	Heliozoa	Actinophryida	Actinosphaeridae	<i>Actinosphaerium</i>	<i>sp.</i>	10	1.66E+05		1.66E+06
Protozoa	Lobosa	Arcellinida	Diffugiidae	<i>Diffugia</i>	<i>sp.</i>	80	1.00E+06		8.00E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Anuraeopsis</i>	<i>sp.</i>	430	1.46E+06		6.27E+08
Rotifera	Monogononta	Ploima	Asplanchnidae	<i>Asplanchna</i>	<i>sp.</i>	240	7.78E+06		1.87E+09

Date Printed: September 30, 2011



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Zooplankton Sample Results

Lab Number: L1011308-13 **Work Order: L1011308**

Date Sampled: May 21, 2011
Source: THC-01 (ZOOP)

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume per Sample μ^3
Rotifera	Monogononta	Collotheceae	Collotheceidae	<i>Collotheca</i>	sp.	10	9.00E+04	9.00E+05
Rotifera	Monogononta	Ploima	Lepadellidae	<i>Colurella</i>	sp.	10	7.68E+05	7.68E+06
Rotifera	Monogononta	Flosculariaceae	Conochilidae	<i>Conochilus</i>	sp.	180	9.72E+05	1.75E+08
Rotifera	Monogononta	Ploima	Euchlanidae	<i>Euchlanis</i>	sp.	60	1.22E+06	7.29E+07
Rotifera	Monogononta	Ploima	Gastropodidae	<i>Gastropus</i>	sp.	70	2.16E+06	1.51E+08
Rotifera	Monogononta	Ploima	Brachionidae	<i>Kellicottia</i>	<i>longispina</i>	80	6.48E+05	5.18E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	sp.	110	4.32E+05	4.75E+07
Rotifera	Monogononta	Ploima	Lecanidae	<i>Lecane</i>	sp.	10	2.16E+05	2.16E+06
Rotifera	Monogononta	Ploima	Lecanidae	<i>Monostyla</i>	sp.	10	9.72E+05	9.72E+06
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Polyarthra</i>	sp.	110	3.24E+05	3.56E+07
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Synchaeta</i>	sp.	40	1.22E+06	4.86E+07
Rotifera	Monogononta	Ploima	Trichocercidae	<i>Trichocerca</i>	sp.	10	2.40E+06	2.40E+07
Rotifera	Monogononta	Ploima	Trichotriidae	<i>Trichotria</i>	sp.	10	1.22E+06	1.22E+07
Crustacea	Ostracoda					20	6.65E+07	1.33E+09

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Zooplankton Sample Results

Lab Number: L1011308-14 **Work Order: L1011308**

Date Sampled: May 20, 2011
Source: TED-01 (ZOOP)

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ 3	Biovolume μ 3 per Sample
Rotifera				<i>Unidentified</i>		10	1.54E+06	1.54E+07
Arachnida	Arachnida	Hydracarina		<i>Unidentified</i>		10	6.22E+07	6.22E+08
Crustacea	Branchiopoda	Cladocera	Chydoridae	<i>Alonella</i>	<i>sp.</i>	10	1.44E+07	1.44E+08
Crustacea	Branchiopoda	Cladocera	Bosminiidae	<i>Bosmina</i>	<i>sp.</i>	90	1.73E+07	1.56E+09
Crustacea	Branchiopoda	Cladocera	Daphniidae	<i>Daphnia</i>	<i>sp.</i>	50	2.88E+07	1.44E+09
Crustacea	Branchiopoda	Cladocera	Sididae	<i>Diaphanosoma</i>	<i>sp.</i>	20	1.92E+07	3.84E+08
Crustacea	Copepoda	Cyclopoida	Cyclopidae	<i>Cyclops</i>	<i>sp.</i>	230	1.17E+07	2.68E+09
Crustacea	Copepoda	Calanoidea	Temoridae	<i>Epischura</i>	<i>sp.</i>	1280	7.56E+07	9.68E+10
Crustacea	Copepoda	Copepoda		<i>Nauplii</i>		400	4.32E+05	1.73E+08
Crustacea	Copepoda	Cyclopoida		<i>To young to ID</i>		110	3.46E+06	3.80E+08
Crustacea	Copepoda	Calanoidea		<i>To young to ID</i>		360	2.59E+06	9.33E+08
Protozoa	Heliozoa	Actinophryida	Actinosphaeridae	<i>Actinosphaerium</i>	<i>sp.</i>	20	7.29E+05	1.46E+07
Protozoa	Lobosa	Arcellinida	Diffugiidae	<i>Diffugia</i>	<i>sp.</i>	10	7.29E+05	7.29E+06
Rotifera	Monogononta	Ploima	Gastropodidae	<i>Ascomorpha</i>	<i>sp.</i>	10	6.75E+05	6.75E+06

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Zooplankton Sample Results

Lab Number: L1011308-14

Work Order: L1011308

Date Sampled: May 20, 2011
Source: TED-01 (ZOOP)

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume per Sample μ^3
Rotifera	Monogononta	Flosculariaceae	Conochilidae	<i>Conochilus</i>	<i>sp.</i>	300	3.24E+05	9.72E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Kellicottia</i>	<i>longispina</i>	30	6.48E+05	1.94E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	<i>sp.</i>	90	4.32E+05	3.89E+07
Rotifera	Monogononta	Ploima	Lecanidae	<i>Lecane</i>	<i>sp.</i>	20	3.96E+05	7.92E+06
Rotifera	Monogononta	Ploima	Lecanidae	<i>Monostyla</i>	<i>sp.</i>	10	3.24E+05	3.24E+06
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Ploesoma</i>	<i>sp.</i>	10	3.24E+05	3.24E+06
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Polyarthra</i>	<i>sp.</i>	10	3.24E+05	3.24E+06
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Synchaeta</i>	<i>sp.</i>	50	1.80E+06	9.00E+07
Rotifera	Monogononta			<i>Unidentified</i>		140	4.32E+05	6.05E+07



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Zooplankton Sample Results

Lab Number: L1011308-15 **Work Order:** L1011308

Date Sampled: May 20, 2011
Source: GHL-03 (ZOPP)

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μm^3	Biovolume per Sample μm^3
Crustacea	Branchiopoda	Cladocera		<i>To young to ID</i>		20	4.28E+06	8.55E+07
Protozoa	Ciliata	Peritrichida	Vorticellidae	<i>Vorticella</i>	<i>sp.</i>	100	2.16E+05	2.16E+07
Crustacea	Copepoda	Copepoda		<i>Nauplii</i>		1440	4.32E+05	6.22E+08
Crustacea	Copepoda	Calanoidea		<i>To young to ID</i>		440	5.18E+06	2.28E+09
Crustacea	Copepoda	Cyclopoida		<i>To young to ID</i>		320	5.18E+06	1.66E+09
Rotifera	Monogononta	Flosculariacea	Conochilidae	<i>Conochilus</i>	<i>sp.</i>	580	9.72E+05	5.64E+08
Rotifera	Monogononta	Ploima	Gastropodidae	<i>Gastropus</i>	<i>sp.</i>	10	2.16E+06	2.16E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Kellicottia</i>	<i>longispina</i>	100	6.48E+05	6.48E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	<i>sp.</i>	1900	4.32E+05	8.21E+08
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Ploesoma</i>	<i>sp.</i>	10	1.13E+06	1.13E+07
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Polyarthra</i>	<i>sp.</i>	1640	3.24E+05	5.31E+08
Rotifera	Monogononta	Ploima	Trichocercidae	<i>Trichocerca</i>	<i>sp.</i>	10	9.72E+05	9.72E+06



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Zooplankton Sample Results

Lab Number: L1011308-16 **Work Order: L1011308**

Date Sampled: May 24, 2011
Source: ANB-07 (ZOOB)

Volume Decanted (mL): 100
Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μm^3	Biovolume per Sample μm^3
Rotifera				Unidentified		120	1.82E+05	2.19E+07
Protozoa	Ciliata	Spirotrichida	Codonellidae	Codonella	sp.	10	7.35E+04	7.35E+05
Protozoa	Ciliata	Peritrichida	Vorticellidae	Vorticella	sp.	60	2.70E+04	1.62E+06
Crustacea	Copepoda	Cyclopoida	Cyclopidae	Cyclops	sp.	30	1.17E+07	3.50E+08
Crustacea	Copepoda			Nauplii		770	4.32E+05	3.33E+08
Crustacea	Copepoda	Cyclopoida		To young to ID		60	6.75E+06	4.05E+08
Rotifera	Monogononta	Ploima	Gastropodidae	Ascomorpha	sp.	10	1.20E+06	1.20E+07
Rotifera	Monogononta	Ploima	Asplanchnidae	Asplanchna	sp.	70	4.32E+07	3.02E+09
Rotifera	Monogononta	Flosculariaceae	Conochilidae	Conochilus	sp.	130	9.72E+05	1.26E+08
Rotifera	Monogononta	Ploima	Brachionidae	Kellicotia	longispina	320	6.48E+05	2.07E+08
Rotifera	Monogononta	Ploima	Brachionidae	Keratella	sp.	600	4.32E+05	2.59E+08
Rotifera	Monogononta	Ploima	Lecanidae	Monostyla	sp.	10	1.30E+06	1.30E+07
Rotifera	Monogononta	Ploima	Synchaetidae	Polyarthra	sp.	1330	3.24E+05	4.31E+08

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Zooplankton Sample Results

Lab Number: L1011308-17 **Work Order:** L1011308

Date Sampled: May 21, 2011

Submitter:

Volume Decanted (mL): 100

Source: UCI-01 (ZOOP)

Sample ID:

Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume μ^3 per Sample
Protozoa	Ciliata	Spirotrichida	Codonellidae	<i>Codonella</i>	sp.	10	5.40E+04	5.40E+05
Protozoa	Ciliata	Spirotrichida	Strobilididae	<i>Strobilidium</i>	sp.	10	9.11E+04	9.11E+05
Protozoa	Ciliata			<i>Unidentified</i>		2750	5.40E+04	1.49E+08
Euglenozoa	Euglenoidea	Euglenales	Euglenaceae	<i>Euglena</i>	sp.	160	1.13E+04	1.80E+06



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Zooplankton Sample Results

Lab Number: L1011308-18 **Work Order: L1011308**

Date Sampled: May 21, 2011
Source: GHC-01 (ZOOP)

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μm^3	Biovolume per Sample μm^3
Rotifera				<i>Unidentified</i>		30	9.72E+05	2.92E+07
Protozoa	Ciliata			<i>Unidentified</i>		20	3.24E+05	6.48E+06
Crustacea	Copepoda	Calanoida	Diaptomidae	<i>Diaptomus</i>	<i>sp.</i>	10	7.56E+07	7.56E+08
Crustacea	Copepoda			<i>Nauplii</i>		440	4.32E+05	1.90E+08
Crustacea	Copepoda	Cyclopoida		<i>To young to ID</i>		10	3.46E+06	3.46E+07
Euglenozoa	Euglenoidea	Euglenales	Euglenaceae	<i>Euglena</i>	<i>sp.</i>	10	9.00E+03	9.00E+04
Protozoa	Lobosa	Arcellimida	Diffugiidae	<i>Diffugia</i>	<i>sp.</i>	30	1.10E+06	3.30E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Anuraeopsis</i>	<i>sp.</i>	120	1.46E+06	1.75E+08
Rotifera	Monogononta	Ploima	Notommatidae	<i>Cephalodella</i>	<i>sp.</i>	10	3.46E+06	3.46E+07
Rotifera	Monogononta	Ploima	Gastropodidae	<i>Gastropus</i>	<i>sp.</i>	10	9.72E+05	9.72E+06
Rotifera	Monogononta	Ploima	Brachionidae	<i>Kellicottia</i>	<i>longispina</i>	40	6.48E+05	2.59E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	<i>sp.</i>	5380	4.32E+05	2.32E+09
Rotifera	Monogononta	Ploima	Lecanidae	<i>Lecane</i>	<i>sp.</i>	10	9.72E+05	9.72E+06
Rotifera	Monogononta	Ploima	Lepadellidae	<i>Lepadella</i>	<i>sp.</i>	20	4.90E+05	9.80E+06

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Zooplankton Sample Results

Lab Number: L1011308-18 **Work Order: L1011308**

Date Sampled: May 21, 2011

Submitter:

Volume Decanted (mL): 100

Source: GHC-01 (ZOOP)

Sample ID:

Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume μ^3 per Sample
Rotifera	Monogononta	Ploima	Lecanidae	<i>Monostyla</i>	<i>sp.</i>	160	5.76E+05	9.22E+07
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Ploesoma</i>	<i>sp.</i>	10	1.82E+06	1.82E+07
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Polyarthra</i>	<i>sp.</i>	160	3.24E+05	5.18E+07
Rotifera	Monogononta	Ploima	Trichocercidae	<i>Trichocerca</i>	<i>sp.</i>	20	9.72E+05	1.94E+07



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Zooplankton Sample Results

Lab Number: L1011308-19

Work Order: L1011308

May 22, 2011

Submitter:

Volume Decanted (mL): 100

ANC-02 (ZOOPI)

Sample ID:

Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume per Sample μ^3
Crustacea	Copepoda			<i>Nauplii</i>		520	4.32E+05	2.25E+08
Crustacea	Copepoda	Cyclopoida		<i>To young to ID</i>		10	3.46E+06	3.46E+07
Protozoa	Lobosa	Arcellinida	Diffugiidae		<i>sp.</i>	30	1.10E+06	3.30E+07
Rotifera	Monogononta	Ploima	Asplanchnidae		<i>sp.</i>	140	5.40E+06	7.56E+08
Rotifera	Monogononta	Ploima	Notommatidae		<i>sp.</i>	10	9.72E+05	9.72E+06
Rotifera	Monogononta	Ploima	Lepadellidae		<i>sp.</i>	10	2.88E+05	2.88E+06
Rotifera	Monogononta	Ploima	Euchlanidae		<i>sp.</i>	10	1.46E+06	1.46E+07
Rotifera	Monogononta	Ploima	Brachionidae		<i>sp.</i>	2580	4.32E+05	1.11E+09
Rotifera	Monogononta	Ploima	Lecanidae		<i>sp.</i>	30	9.72E+05	2.92E+07
Rotifera	Monogononta	Ploima	Lecanidae		<i>sp.</i>	50	5.76E+05	2.88E+07
Rotifera	Monogononta	Ploima	Mytilinidae		<i>sp.</i>	10	1.22E+06	1.22E+07
Rotifera	Monogononta	Ploima	Brachionidae		<i>sp.</i>	10	1.70E+06	1.70E+07
Rotifera	Monogononta	Ploima	Synchaetidae		<i>sp.</i>	70	9.72E+05	6.80E+07
Rotifera	Monogononta	Ploima	Synchaetidae		<i>sp.</i>	4940	3.24E+05	1.60E+09

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Zooplankton Sample Results

Lab Number: L1011308-19 **Work Order: L1011308**

Date Sampled: May 22, 2011

Submitter:

Volume Decanted (mL): 100

Source: ANC-02 (ZOOP)

Sample ID:

Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume μ^3 per Sample
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Synchaeta</i>	<i>sp.</i>	2600	9.72E+05	2.53E+09
Rotifera	Monogononta	Ploima	Trichotriidae	<i>Trichotria</i>	<i>sp.</i>	40	1.22E+06	4.86E+07
Rotifera	Monogononta	Ploima		<i>Unidentified</i>		10	2.92E+06	2.92E+07
Rotifera	Monogononta			<i>Unidentified</i>		40	1.12E+05	4.48E+06



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Phytoplankton Sample Results

Lab Number: L1011308-2

Work Order: L1011308

Date Sampled: May 20, 2011

Submitter:

Source: TED-01 (PHYTO)

WQNum

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Bacillariophyceae	<i>Navicula</i>	<i>sp.</i>	12400	2240	27776000
Bacillariophyceae	<i>Nitzschia</i>	<i>sigmoidea</i>	6200	1440	8928000
Bacillariophyceae	<i>Nitzschia</i>	<i>sp.</i>	68200	4320	294624000
Chlorophyceae	<i>Crucigenia</i>	<i>quadrata</i>	4000	12	48000
Chlorophyceae	<i>Crucigenia</i>	<i>sp.</i>	16000	12	192000
Chlorophyceae	<i>Dictyosphaerium</i>	<i>sp.</i>	6200	8000	49600000
Chlorophyceae	<i>Kirchneriella</i>	<i>sp.</i>	8000	240	1920000
Chlorophyceae	<i>Monoraphidium</i>	<i>sp.</i>	12400	120	1488000
Chlorophyceae	<i>Pediastrum</i>	<i>tetras</i>	1000	900	900000
Chlorophyceae	<i>Planktosphaeria</i>	<i>sp.</i>	2000	8000	16000000
Chlorophyceae	<i>Scenedesmus</i>	<i>sp.</i>	24800	240	5952000
Chlorophyceae	<i>Tetraedron</i>	<i>minimum</i>	6200	576	3571200
Chrysophyceae	<i>Bitrichia</i>	<i>sp.</i>	6200	360	2232000
Chrysophyceae	<i>Dinobryon</i>	<i>bavaricum</i>	6200	540	3348000
Chrysophyceae	<i>Dinobryon</i>	<i>sp.</i>	62000	540	33480000
Chrysophyceae	<i>small chrysophytes</i>		7200000	360	2592000000
Cyanophyceae	<i>Aphanothece</i>	<i>sp.</i>	1000	15625	15625000
Cyanophyceae	<i>Gomphosphaeria</i>	<i>sp.</i>	6200	3375	20925000
Cyanophyceae	<i>Merismopedia</i>	<i>sp.</i>	99200	8	793600

Date Printed: September 29, 2011

Lab Number: L1011308-2 **Work Order: L1011308****Date Sampled:** May 20, 2011 **Submitter:****Source:** TED-01 (PHYTO) **WQNum**

			Sample Type	WATER	
Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Cyanophyceae	<i>Pseudanabaena</i>	<i>sp.</i>	31000	480	14880000
Cyanophyceae	<i>Spirulina</i>	<i>sp.</i>	1000	3360	3360000
Dinophyceae	<i>Peridinium</i>	<i>sp.</i>	1000	216000	216000000
Fragilariophyceae	<i>Fragilaria</i>	<i>crotonensis</i>	37200	630	23436000
Fragilariophyceae	<i>Synedra</i>	<i>sp.</i>	62000	810	50220000



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Zooplankton Sample Results

Lab Number: L1011308-20 **Work Order:** L1011308

Date Sampled: May 28, 2011
Source: NTL-01 (ZOOP)

Submitter:
Sample ID:

Volume Decanted (mL): 200
Volume analyzed (mL): 5

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μm^3	Biovolume per Sample μm^3
Crustacea	Branchiopoda	Cladocera	Bosminidae	<i>Bosmina</i>	sp.	160	1.94E+07	3.11E+09
Crustacea	Branchiopoda	Cladocera	Daphniidae	<i>Daphnia</i>	sp.	40	6.05E+07	2.42E+09
Protozoa	Ciliata	Peritrichida	Epistylidae	<i>Epistylis</i>	sp.	720	1.82E+05	1.31E+08
Protozoa	Ciliata			<i>Unidentified</i>		40	2.40E+04	9.60E+05
Protozoa	Ciliata	Peritrichida	Vorticellidae	<i>Vorticella</i>	sp.	1280	2.16E+05	2.76E+08
Crustacea	Copepoda	Calanoidea	Temoridae	<i>Epischura</i>	sp.	1280	9.33E+07	1.19E+11
Crustacea	Copepoda			<i>Nauplii</i>		2200	4.32E+05	9.50E+08
Crustacea	Copepoda	Calanoidea		<i>To young to ID</i>		720	6.75E+06	4.86E+09
Tardigrada	Eutardigrada	Parachela	Macrobotidae	<i>Unidentified</i>		40	5.41E+07	2.16E+09
Protozoa	Lobosa	Arcellinida	Diffugiidae	<i>Diffugia</i>	sp.	80	1.10E+06	8.80E+07
Rotifera	Monogononta	Flosculariaceae	Conochilidae	<i>Conochilus</i>	sp.	24640	9.72E+05	2.40E+10
Rotifera	Monogononta	Ploima	Gastropodidae	<i>Gastropus</i>	sp.	880	9.72E+05	8.55E+08
Rotifera	Monogononta	Ploima	Brachionidae	<i>Kellicottia</i>	<i>longispina</i>	3560	6.48E+05	2.31E+09
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	sp.	8480	4.32E+05	3.66E+09

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Zooplankton Sample Results

Lab Number: L1011308-20 **Work Order:** L1011308

Date Sampled: May 28, 2011
Source: NTL-01 (ZOOP)

Submitter:
Sample ID:

Volume Decanted (mL): 200
Volume analyzed (mL): 5

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume per Sample μ^3
Rotifera	Monogononta	Ploima	Lecanidae	<i>Lecane</i>	sp.	40	9.72E+05	3.89E+07
Rotifera	Monogononta	Ploima	Lecanidae	<i>Monostyla</i>	sp.	80	5.76E+05	4.61E+07
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Polyarthra</i>	sp.	5680	3.24E+05	1.84E+09



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Zooplankton Sample Results

Lab Number: L1011308-21 **Work Order:** L1011308

Date Sampled: May 28, 2011
Source: GSL-01 (ZOOP)

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 5

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μm^3	Biovolume per Sample μm^3
Rotifera				<i>Unidentified</i>		40	9.72E+05	3.89E+07
Crustacea	Branchiopoda	Cladocera	Bosminidae	<i>Bosmina</i>	<i>sp.</i>	20	1.94E+07	3.89E+08
Protozoa	Ciliata	Holotrichida	Tracheliidae	<i>Trachelius</i>	<i>sp.</i>	20	4.70E+06	9.41E+07
Protozoa	Ciliata			<i>Unidentified</i>		80	9.72E+05	7.78E+07
Protozoa	Ciliata	Peritrichida	Vorticellidae	<i>Vorticella</i>	<i>sp.</i>	1840	2.16E+05	3.97E+08
Crustacea	Copepoda	Cyclopoida	Cyclopidae	<i>Cyclops</i>	<i>sp.</i>	100	1.36E+07	1.36E+09
Crustacea	Copepoda	Calanoidea	Diaptomidae	<i>Diaptomus</i>	<i>sp.</i>	40	1.75E+07	7.00E+08
Crustacea	Copepoda	Calanoidea	Temoridae	<i>Epischura</i>	<i>sp.</i>	140	1.49E+07	2.09E+09
Crustacea	Copepoda			<i>Nauplii</i>		1320	4.32E+05	5.70E+08
Crustacea	Copepoda	Cyclopoida		<i>To young to ID</i>		120	4.32E+06	5.18E+08
Rotifera	Monogononta	Ploima	Asplanchnidae	<i>Asplanchna</i>	<i>sp.</i>	40	2.65E+07	1.06E+09
Rotifera	Monogononta	Flosculariaceae	Conochilidae	<i>Conochilus</i>	<i>sp.</i>	14600	9.72E+05	1.42E+10
Rotifera	Monogononta	Ploima	Gastropodidae	<i>Gastropus</i>	<i>sp.</i>	260	9.72E+05	2.53E+08
Rotifera	Monogononta	Ploima	Brachionidae	<i>Kellicottia</i>	<i>longispina</i>	2760	6.48E+05	1.79E+09

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Zooplankton Sample Results

Lab Number: L1011308-21 **Work Order: L1011308**

Date Sampled: May 28, 2011
Source: GSL-01 (Zoop)

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 5

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume per Sample μ^3
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	sp.	32560	4.32E+05	1.41E+10
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Polyarthra</i>	sp.	280	3.24E+05	9.07E+07
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Synchaeta</i>	sp.	400	9.72E+05	3.89E+08



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Zooplankton Sample Results

Lab Number: L1011308-22 **Work Order:** L1011308

Date Sampled: May 29, 2011
Source: ARL-01 (ZOOP)

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 5

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μm^3	Biovolume per Sample μm^3
Crustacea	Branchiopoda	Cladocera	Daphniidae	<i>Daphnia</i>	sp.	40	7.36E+07	2.94E+09
Crustacea	Branchiopoda	Cladocera	Holopediidae	<i>Holopedium</i>	sp.	60	9.66E+07	5.80E+09
Protozoa	Ciliata	Peritrichida	Epistylidae	<i>Epistylis</i>	sp.	120	1.82E+05	2.19E+07
Crustacea	Copepoda	Cyclopoida	Cyclopidae	<i>Cyclops</i>	sp.	180	1.36E+07	2.45E+09
Crustacea	Copepoda	Calanoida	Diaptomidae	<i>Diaptomus</i>	sp.	1780	1.75E+07	3.11E+10
Crustacea	Copepoda	Calanoida	Temoridae	<i>Epischura</i>	sp.	260	1.49E+07	3.88E+09
Crustacea	Copepoda	Cyclopoida		<i>Nauplii</i>		1000	4.32E+05	4.32E+08
Crustacea	Copepoda	Cyclopoida		<i>To young to ID</i>		80	4.32E+06	3.46E+08
Rotifera	Monogononta	Ploima	Asplanchnidae	<i>Asplanchna</i>	sp.	20	7.78E+07	1.56E+09
Rotifera	Monogononta	Flosculariaceae	Conochilidae	<i>Conochilus</i>	sp.	28720	9.72E+05	2.79E+10
Rotifera	Monogononta	Ploima	Gastropodidae	<i>Gastropus</i>	sp.	20	9.72E+05	1.94E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Kellicottia</i>	<i>longispina</i>	6160	6.48E+05	3.99E+09
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	sp.	8080	4.32E+05	3.49E+09
Rotifera	Monogononta	Ploima	Lecanidae	<i>Monostyla</i>	sp.	20	5.76E+05	1.15E+07

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Zooplankton Sample Results

Lab Number: L1011308-22 **Work Order:** L1011308

Date Sampled: May 29, 2011

Submitter:

Volume Decanted (mL): 100

Source: ARL-01 (ZOOP)

Sample ID:

Volume analyzed (mL): 5

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume per Sample	μ 3 Biovolume per Sample
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Polyarthra</i>	<i>sp.</i>	2920	3.24E+05	9.46E+08



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Zooplankton Sample Results

Lab Number: L1011308-23 **Work Order:** L1011308

Date Sampled: May 29, 2011
Source: ULI-01 (ZOOP)

Submitter:
Sample ID:

Volume Decanted (mL): 200
Volume analyzed (mL): 5

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μm^3	Biovolume per Sample μm^3
Crustacea	Branchiopoda	Cladocera	Daphniidae	<i>Daphnia</i>	sp.	240	9.52E+07	2.29E+10
Crustacea	Branchiopoda	Cladocera	Holopediidae	<i>Holopedium</i>	sp.	640	5.06E+08	3.24E+11
Protozoa	Ciliata	Peritrichida	Vorticellidae	<i>Vorticella</i>	sp.	4240	2.16E+05	9.16E+08
Crustacea	Copepoda			<i>Nauplii</i>		1360	4.32E+05	5.88E+08
Crustacea	Copepoda	Cyclopoida		<i>Unidentified</i>		40	1.49E+07	5.96E+08
Arthropoda	Insecta	Diptera	Chironomidae	<i>Unidentified</i>		40	1.04E+07	4.15E+08
Protozoa	Lobosa	Arcellimida	Diffugiidae	<i>Diffugia</i>	sp.	40	1.10E+06	4.40E+07
Rotifera	Monogononta	Ploima	Asplanchnidae	<i>Asplanchna</i>	sp.	120	2.42E+07	2.90E+09
Rotifera	Monogononta	Flosculariaceae	Conochilidae	<i>Conochilus</i>	sp.	4400	9.72E+05	4.28E+09
Rotifera	Monogononta	Ploima	Gastropodidae	<i>Gastropus</i>	sp.	1280	9.72E+05	1.24E+09
Rotifera	Monogononta	Ploima	Brachionidae	<i>Kellicottia</i>	<i>longispina</i>	720	6.48E+05	4.67E+08
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	sp.	51360	4.32E+05	2.22E+10
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Ploesoma</i>	sp.	320	2.59E+06	8.29E+08
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Polyarthra</i>	sp.	2080	3.24E+05	6.74E+08

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Zooplankton Sample Results

Lab Number: L1011308-23 **Work Order:** L1011308

Date Sampled: May 29, 2011
Source: ULI-01 (ZOOP)

Submitter:
Sample ID:

Volume Decanted (mL): 200
Volume analyzed (mL): 5

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume per Sample	μ 3 Biovolume per Sample
Rotifera	Monogononta	Ploima	Trichocercidae	<i>Trichocerca</i>	<i>sp.</i>	400	2.30E+06	9.22E+08



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Zooplankton Sample Results

Lab Number: L1011308-24 **Work Order:** L1011308

Date Sampled: May 27, 2011
Source: THL-02 (ZOOP)

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 5

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume per Sample μ^3
Crustacea	Branchiopoda	Cladocera	Bosminidae	<i>Bosmina</i>	sp.	80	2.59E+07	2.07E+09
Crustacea	Branchiopoda	Cladocera		<i>Unidentified</i>		20	9.72E+06	1.94E+08
Protozoa	Ciliata	Peritrichida	Vorticellidae	<i>Vorticella</i>	sp.	5480	2.16E+05	1.18E+09
Crustacea	Copepoda	Cyclopoida	Cyclopidae	<i>Cyclops</i>	sp.	100	1.36E+07	1.36E+09
Crustacea	Copepoda	Calanoida	Temoridae	<i>Epischura</i>	sp.	780	1.56E+07	1.21E+10
Crustacea	Copepoda			<i>Nauplii</i>		1560	4.32E+05	6.74E+08
Crustacea	Copepoda	Cyclopoida		<i>To young to ID</i>		700	3.46E+06	2.42E+09
Rotifera	Monogononta	Ploima	Asplanchnidae	<i>Asplanchna</i>	sp.	40	6.94E+07	2.77E+09
Rotifera	Monogononta	Collothecaceae	Collothecidae	<i>Collotheca</i>	sp.	60	2.43E+05	1.46E+07
Rotifera	Monogononta	Flosculariaceae	Conochilidae	<i>Conochilus</i>	sp.	9160	9.72E+05	8.90E+09
Rotifera	Monogononta	Ploima	Gastropodidae	<i>Gastropus</i>	sp.	20	9.72E+05	1.94E+07
Rotifera	Monogononta	Ploima	Brachionidae	<i>Kellicottia</i>	<i>longispina</i>	2980	6.48E+05	1.93E+09
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	sp.	9520	4.32E+05	4.11E+09
Rotifera	Monogononta	Ploima	Lecanidae	<i>Lecane</i>	sp.	20	2.52E+05	5.04E+06



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Zooplankton Sample Results

Lab Number: L1011308-24 **Work Order: L1011308**

Date Sampled: May 27, 2011
Source: THL-02 (ZOOP)

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 5

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume μ^3 per Sample
Rotifera	Monogononta	Ploima	Lecanidae	<i>Monostyla</i>	sp.	40	6.75E+05	2.70E+07
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Ploesoma</i>	sp.	40	2.59E+06	1.04E+08
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Polyarthra</i>	sp.	520	3.24E+05	1.68E+08
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Synchaeta</i>	sp.	20	4.41E+05	8.82E+06
Rotifera	Monogononta			<i>Unidentified</i>		60	3.24E+05	1.94E+07



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Phytoplankton Sample Results

Lab Number: L1011308-3

Work Order: L1011308

Date Sampled: May 20, 2011

Submitter:

Source: GHL-03 (PHYTO)

WQNum

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume μ3	Total Biovolume μ3
Bacillariophyceae	<i>Navicula</i>	<i>sp.</i>	6200	28000	173600000
Bacillariophyceae	<i>Nitzschia</i>	<i>sp.</i>	6200	360	2232000
Chlorophyceae	<i>Elakatothrix</i>	<i>sp.</i>	12400	80	992000
Chlorophyceae	<i>Monoraphidium</i>	<i>sp.</i>	37200	120	4464000
Chlorophyceae	<i>Planktosphaeria</i>	<i>sp.</i>	6200	8000	49600000
Chlorophyceae	<i>Pyramimonus</i>	<i>sp.</i>	7000	4500	31500000
Chlorophyceae	<i>Scenedesmus</i>	<i>sp.</i>	24800	240	5952000
Chlorophyceae	<i>Tetraedron</i>	<i>minimum</i>	12400	144	1785600
Chrysophyceae	<i>Bitrichia</i>	<i>sp.</i>	1000	360	360000
Chrysophyceae	<i>Dinobryon</i>	<i>sp.</i>	62000	540	33480000
Chrysophyceae	<i>small chrysophytes</i>		4896000	64	313344000
Chrysophyceae	<i>Synura</i>	<i>uvella (single cells)</i>	24800	2160	53568000
Cryptophyceae	<i>Cryptomonas</i>	<i>sp.</i>	155000	2000	310000000
Cyanophyceae	<i>Anabaena</i>	<i>sp.</i>	3000	4320	12960000
Cyanophyceae	<i>Aphanocapsa</i>	<i>sp.</i>	6200	27000	167400000
Cyanophyceae	<i>Merismopedia</i>	<i>sp.</i>	8000	8	64000
Cyanophyceae	<i>Oscillatoria</i>	<i>sp.</i>	1000	10800	10800000
Cyanophyceae	<i>Planktolyngbya</i>	<i>sp.</i>	960000	360	345600000
Cyanophyceae	<i>Pseudanabaena</i>	<i>limnetica</i>	1440000	600	864000000

Date Printed: September 29, 2011

Lab Number: L1011308-3 **Work Order: L1011308****Date Sampled:** May 20, 2011 **Submitter:****Source:** GHL-03 (PHYTO) **WQNum**

	Genus	Species	Number of Cells per litre	Sample Type	WATER
Class			Unit Biovolume µ3	Total Biovolume µ3	
Cyanophyceae	<i>Pseudanabaena</i>	<i>sp.</i>	3000	600	1800000
Dinophyceae	<i>Glenodinium</i>	<i>sp.</i>	24800	15625	387500000
Euglenophyceae	<i>Euglena</i>	<i>sp.</i>	1000	12000	12000000
Euglenophyceae	<i>Phacus</i>	<i>sp.</i>	1000	31500	31500000
Euglenophyceae	<i>Trachelomonas</i>	<i>sp.</i>	1000	5625	5625000
Fragilariophyceae	<i>Synedra</i>	<i>sp.</i>	198400	630	124992000
Fragilariophyceae	<i>Tabellaria</i>	<i>sp.</i>	4000	3600	14400000



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Phytoplankton Sample Results

Lab Number: L1011308-4

Work Order: L1011308

Date Sampled: May 24, 2011

Submitter:

Source: ANB-07 (PHYTO)

WQNum

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume μ3	Total Biovolume μ3
Bacillariophyceae	<i>Cymbella</i>	sp.	6200	31250	193750000
Bacillariophyceae	<i>Gyrosigma</i>	sp.	1000	72000	72000000
Bacillariophyceae	<i>Nitzschia</i>	<i>sigmoidea</i>	1000	800	800000
Bacillariophyceae	<i>Nitzschia</i>	sp.	74400	360	26784000
Bacillariophyceae	<i>Surirella</i>	sp.	6200	7875	48825000
Chlorophyceae	<i>Ankistrodesmus</i>	sp.	6200	480	2976000
Chlorophyceae	<i>Lagerheimia</i>	sp.	12400	16	198400
Chlorophyceae	<i>Monoraphidium</i>	sp.	9000	120	1080000
Chlorophyceae	<i>Pediastrum</i>	<i>Boryanum</i>	1000	6400	6400000
Chlorophyceae	<i>Scenedesmus</i>	<i>quadricauda</i>	24800	160	3968000
Chlorophyceae	<i>Scenedesmus</i>	sp.	6200	160	992000
Chrysoophyceae	<i>Dinobryon</i>	<i>bavaricum</i>	49600	540	26784000
Chrysoophyceae	<i>Dinobryon</i>	sp.	55800	540	30132000
Chrysoophyceae	<i>small chrysoophytes</i>		1344000	64	86016000
Coccolodiscophyceae	<i>Cyclotella</i>	sp.	2000	4000	8000000
Coccolodiscophyceae	<i>Melosira</i>	sp.	31000	38400	1190400000
Coccolodiscophyceae	<i>Rhizosolenia</i>	sp.	31000	128	3968000
Cryptophyceae	<i>Cryptomonas</i>	sp.	18600	2000	37200000
Cyanophyceae	<i>Anabaena</i>	sp.	7000	2160	15120000

Date Printed: September 29, 2011

Lab Number: L1011308-4 **Work Order: L1011308****Date Sampled:** May 24, 2011 **Submitter:****Source:** ANB-07 (PHYTO) **WQNum**

	Genus	Species	Number of Cells per litre	Sample Type	WATER
Class			Unit Biovolume µ3	Total Biovolume µ3	
Cyanophyceae	<i>Pseudanabaena</i>	<i>sp.</i>	12400	480	5952000
Euglenophyceae	<i>Euglena</i>	<i>sp.</i>	1000	13500	13500000
Euglenophyceae	<i>Trachelomonas</i>	<i>sp.</i>	1000	5625	5625000
Fragilariophyceae	<i>Asterionella</i>	<i>formosa</i>	11000	720	7920000
Fragilariophyceae	<i>Diatoma</i>	<i>sp.</i>	12000	640	7680000
Fragilariophyceae	<i>Synedra</i>	<i>sp.</i>	241800	630	152334000



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Phytoplankton Sample Results

Lab Number: L1011308-5 **Work Order:** L1011308

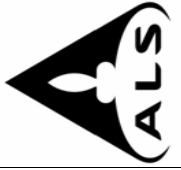
Date Sampled: May 21, 2011 **Submitter:**

Source: UCI-01 (PHYTO) **WQNum**

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume μ^3	Total Biovolume μ^3
Bacillariophyceae	<i>Gomphonema</i>	sp.	33500	10125	339187500
Bacillariophyceae	<i>Navicula</i>	sp.	3700	1600	5920000
Bacillariophyceae	<i>Nitzschia</i>	sp.	21100	1120	23632000
Chlorophyceae	<i>Mougeotia</i>	sp.	600	81000	48600000
Chrysophyceae	<i>small chrysophytes</i>		326400	64	20889600
Cryptophyceae	<i>Cryptomonas</i>	sp.	2500	5625	14062500
Cyanophyceae	<i>Planktothrix</i>	sp.	3700	2160	7992000
Cyanophyceae	<i>Pseudanabaena</i>	sp.	288000	180	51840000
Euglenophyceae	<i>Euglena</i>	sp.	2500	24000	60000000
Euglenophyceae	<i>Trachelomonas</i>	sp.	3700	8000	29600000
Fragilariophyceae	<i>Synedra</i>	sp.	1200	2500	3000000

Date Printed: September 29, 2011



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Phytoplankton Sample Results

Lab Number: L1011308-6

Work Order: L1011308

Date Sampled: May 21, 2011

Submitter:

Source: GHC-01 (PHYTO)

WQNum

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume μ3	Total Biovolume μ3
Bacillariophyceae	<i>Eunotia</i>	sp.	4000	1875	7500000
Bacillariophyceae	<i>Navicula</i>	sp.	12400	3000	37200000
Bacillariophyceae	<i>Nitzschia</i>	sp.	322400	630	203112000
Bacillariophyceae	<i>Rhoicosphenia</i>	sp.	6200	2000	12400000
Chlorophyceae	<i>Ankistrodesmus</i>	sp.	62000	200	12400000
Chlorophyceae	<i>Crucigenia</i>	tetrapedia	24800	36	892800
Chlorophyceae	<i>Elakatothrix</i>	sp.	6200	180	1116000
Chlorophyceae	<i>Monoraphidium</i>	sp.	6200	120	744000
Chlorophyceae	<i>Pediastrum</i>	tetras	6200	900	5580000
Chlorophyceae	<i>Planktosphaeria</i>	sp.	1000	3375	3375000
Chlorophyceae	<i>Scenedesmus</i>	quadricauda	49600	160	7936000
Chlorophyceae	<i>Scenedesmus</i>	sp.	37200	160	5952000
Chlorophyceae	<i>Scenedesmus</i>	spinosus	4000	320	1280000
Chlorophyceae	<i>Tetraedron</i>	caudatum	6200	256	1587200
Chlorophyceae	<i>Tetraedron</i>	minimum	18600	144	2678400
Chrysophyceae	<i>Dinobryon</i>	sp.	24800	540	13392000
Chrysophyceae	small chrysophytes		4320000	64	276480000
Chrysophyceae	<i>Synura</i>	ivella (single cells)	148800	2000	297600000
Cryptophyceae	<i>Cryptomonas</i>	sp.	254200	5625	1429875000

Date Printed: September 29, 2011

Lab Number: L1011308-6 **Work Order: L1011308****Date Sampled:** May 21, 2011 **Submitter:**
Source: GHC-01 (PHYTO) **WQNum**

	Sample Type		WATER		
Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Cyanophyceae	<i>Aphanocapsa</i>	<i>sp.</i>	5000	42875	214375000
Cyanophyceae	<i>Gomphosphaeria</i>	<i>sp.</i>	5000	27000	135000000
Cyanophyceae	<i>Limnothrix</i>	<i>sp.</i>	384000	480	184320000
Cyanophyceae	<i>Merismopedia</i>	<i>sp.</i>	24000	8	192000
Cyanophyceae	<i>Planktolyngbya</i>	<i>sp.</i>	576000	480	276480000
Cyanophyceae	<i>Pseudanabaena</i>	<i>sp.</i>	480000	480	230400000
Dinophyceae	<i>Glenodinium</i>	<i>sp.</i>	2000	10000	20000000
Fragilariophyceae	<i>Synedra</i>	<i>sp.</i>	6200	5400	33480000
Fragilariophyceae	<i>Tabellaria</i>	<i>sp.</i>	6200	2000	12400000



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Phytoplankton Sample Results

Lab Number: L1011308-7

Work Order: L1011308

Date Sampled: May 22, 2011

Submitter:

Source: ANC-02 (PHYTO)

WQNum

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Bacillariophyceae	<i>Cocconeis</i>	sp.	6200	18750	116250000
Bacillariophyceae	<i>Navicula</i>	sp.	18600	1280	23808000
Bacillariophyceae	<i>Nitzschia</i>	sp.	93000	960	89280000
Chlorophyceae	<i>Monoraphidium</i>	sp.	1000	120	120000
Chlorophyceae	<i>Scenedesmus</i>	sp.	8000	250	2000000
Chrysophyceae	<i>Dinobryon</i>	sp.	31000	540	16740000
Chrysophyceae	<i>small chrysophytes</i>		480000	64	30720000
Coccinodiscophyceae	<i>Cyclotella</i>	sp.	6200	500	3100000
Cryptophyceae	<i>Cryptomonas</i>	sp.	31000	2000	62000000
Cyanophyceae	<i>Aphanizomenon</i>	sp.	4000	4320	17280000
Cyanophyceae	<i>Pseudanabaena</i>	sp.	37200	120	4464000
Dinophyceae	<i>Glenodinium</i>	sp.	24800	15625	387500000
Euglenophyceae	<i>Euglena</i>	sp.	2000	9000	18000000
Fragilariophyceae	<i>Diatoma</i>	sp.	49600	450	22320000
Fragilariophyceae	<i>Synedra</i>	sp.	744000	630	468720000
Fragilariophyceae	<i>Tabellaria</i>	sp.	12400	3000	37200000

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Phytoplankton Sample Results

Lab Number: L1011308-8

Work Order: L1011308

Date Sampled: May 28, 2011

Submitter:

Source: NTL-01 (PHYTO)

WQNum

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Bacillariophyceae	<i>Navicula</i>	<i>sp.</i>	2000	2560	5120000
Bacillariophyceae	<i>Nitzschia</i>	<i>sp.</i>	24800	270	6696000
Bacillariophyceae	<i>Pinnularia</i>	<i>sp.</i>	6000	13500	81000000
Chlorophyceae	<i>Ankistrodesmus</i>	<i>sp.</i>	18600	160	2976000
Chlorophyceae	<i>Coelastrum</i>	<i>sp.</i>	1000	42875	42875000
Chlorophyceae	<i>Elakatothrix</i>	<i>sp.</i>	12400	135	1674000
Chlorophyceae	<i>Euastrum</i>	<i>sp.</i>	1000	12000	12000000
Chlorophyceae	<i>Monoraphidium</i>	<i>sp.</i>	6200	120	744000
Chlorophyceae	<i>Quadrigula</i>	<i>sp.</i>	4000	120	480000
Chlorophyceae	<i>Scenedesmus</i>	<i>sp.</i>	272800	160	43648000
Chrysophyceae	<i>Bitrichia</i>	<i>sp.</i>	6200	288	1785600
Chrysophyceae	<i>Dinobryon</i>	<i>bavaricum</i>	241800	540	130572000
Chrysophyceae	<i>Dinobryon</i>	<i>sp.</i>	93000	540	50220000
Chrysophyceae	<i>small chrysophytes</i>		5952000	8	47616000
Cryptophyceae	<i>Cryptomonas</i>	<i>sp.</i>	80600	12000	967200000
Cyanophyceae	<i>Aphanocapsa</i>	<i>sp.</i>	49600	8000	396800000
Cyanophyceae	<i>Aphanothece</i>	<i>sp.</i>	99200	64000	6348800000
Cyanophyceae	<i>Gomphosphaeria</i>	<i>sp.</i>	4000	27000	108000000
Cyanophyceae	<i>Merismopedia</i>	<i>sp.</i>	99200	1	99200

Date Printed: September 29, 2011

Lab Number: L1011308-8 **Work Order: L1011308****Date Sampled:** May 28, 2011 **Submitter:****Source:** NTL-01 (PHYTO) **WQNum**

	Genus	Species	Number of Cells per litre	Sample Type	WATER
Class			Unit Biovolume µ3	Total Biovolume µ3	
Cyanophyceae	<i>Planktolyngbya</i>	<i>sp.</i>	12400	960	11904000
Dinophyceae	<i>Ceratium</i>	<i>rhomvoides</i>	1000	131625	131625000
Dinophyceae	<i>Gymnodinium</i>	<i>sp.</i>	4000	31500	126000000
Fragilariophyceae	<i>Synedra</i>	<i>sp.</i>	18600	630	11718000



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Phytoplankton Sample Results

Lab Number: L1011308-9 **Work Order:** L1011308

Date Sampled: May 28, 2011 **Submitter:**
Source: GSL-01 (PHYTO) **WQNum**

		Sample Type		WATER	
Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Bacillariophyceae	<i>Navicula</i>	<i>sp.</i>	10000	7000	70000000
Bacillariophyceae	<i>Nitzschia</i>	<i>sp.</i>	6200	360	2232000
Chlorophyceae	<i>Ankistrodesmus</i>	<i>sp.</i>	1000	160	160000
Chlorophyceae	<i>Botryococcus</i>	<i>sp.</i>	1000	64000	64000000
Chlorophyceae	<i>Cosmarium</i>	<i>sp.</i>	1000	36750	36750000
Chlorophyceae	<i>Scenedesmus</i>	<i>sp.</i>	24800	160	3968000
Chrysophyceae	<i>Dinobryon</i>	<i>bavaricum</i>	31000	540	16740000
Chrysophyceae	<i>Dinobryon</i>	<i>sp.</i>	12400	540	6696000
Chrysophyceae	<i>Dinobryon</i>	<i>suecicum</i>	6200	80	496000
Chrysophyceae	<i>small chrysophytes</i>		1248000	8	9984000
Coccinodiscophyceae	<i>Cyclotella</i>	<i>sp.</i>	12000	64	768000
Cryptophyceae	<i>Cryptomonas</i>	<i>sp.</i>	2000	8000	16000000
Cyanophyceae	<i>Anabaena</i>	<i>sp.</i>	9000	12960	116640000
Cyanophyceae	<i>Aphanocapsa</i>	<i>sp.</i>	1000	125000	125000000
Cyanophyceae	<i>Chroococcus</i>	<i>sp.</i>	2000	1000	2000000
Dinophyceae	<i>Gymnodinium</i>	<i>sp.</i>	12400	4500	55800000
Euglenophyceae	<i>Trachelomonas</i>	<i>sp.</i>	2000	4500	9000000
Fragilariophyceae	<i>Synedra</i>	<i>sp.</i>	68200	630	42966000

Date Printed: September 29, 2011



mm

COC #

L1011308

Page 1 of 1

Report To
 Company: AECOM -W172
 Contact: Cliff Samoloff
 Address: 99 Commerce Dr
 Phone: _____ Fax: _____
 Email 1: cliff.samoloff@aecom.com
 Email 2: shawna.kjartanson@aecom.com
 Email 3: _____

Service Requested (Rush for routine analysis subject to availability)
 Regular (Standard Turnaround Times - Business Days)
 Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
 Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
 Same Day or Weekend Emergency - Contact ALS to Confirm TAT

Analysis Request
 Please indicate below Filtered, Preserved or both (F, P, F/P)
 Filtered: _____ Preserved: _____ Both: _____

Client / Project Information
 Job #: 60213483-300
 PO / AFE: _____
 LSD: _____
 Quote #: Q24534

ALS Contact: _____
Sampler: _____

Sample #	Lab Work Order # (lab use only)	Sample Identification (This description will appear on the report)	Date		Time (hh:mm)	Sample Type	Analysis		Number of Containers
			(dd-mm-yy)	(dd-mm-yy)			Zooplankton	Phytoplankton	
1	THC-01		21-MAY-11		14:00	water	X		2
2	TED-01		20-MAY-11		14:30	"	X		2
3	GHL-03		20-MAY-11		12:35	"	X		2
4	ANB-07		24-MAY-11		10:00	"	X		7
5	UC1-01		21-MAY-11		11:45	"	X		2
6	GHC-01		21-MAY-11		15:00	"	X		2
7	ANC-02		22-MAY-11		13:00	"	X		7
8	N7L-07		28-MAY-11		14:00	"	X		
9	GSL-01		28-MAY-11		10:00	"	X		
10	ARL-01		29MAY11		1541	"	X		
11	ULL-01		"		1035	"	X		
12	THL-02		27MAY11		15:18	"	X		

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab.

Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)
 Released by: _____ Date (dd-mm-yy): _____ Time (hh-mm): _____

SHIPMENT RECEPTION (lab use only)
 Received by: _____ Date: JUNE 1 Time: 8:30
 Temperature: 6.0 °C

SHIPMENT VERIFICATION (lab use only)
 Verified by: _____ Date: _____ Time: _____
 Observations: Yes / No? _____ If Yes add SIF _____



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 01-JUN-11
Report Date: 30-SEP-11 12:55 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1011313
Project P.O. #: NOT SUBMITTED
Job Reference: 60212435-200
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011313-1 STL-01 (PHYTO) Sampled By: SK, MH on 22-MAY-11 @ 15:00 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					29-SEP-11	R2260226
L1011313-2 STC-02 (PHYTO) Sampled By: SK, MH on 22-MAY-11 @ 15:28 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes	See Attached					29-SEP-11	R2260226
L1011313-3 STL-01 (ZOOB) Sampled By: SK, MH on 22-MAY-11 @ 15:00 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				30-SEP-11	30-SEP-11	R2260923
L1011313-4 STC-02 (ZOOB) Sampled By: SK, MH on 22-MAY-11 @ 15:00 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes	See attached.				30-SEP-11	30-SEP-11	R2260923

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
PHYTO-BIO-WP	Water	Phytoplankton Biovolumes	Standard Methods 10200, 1998

This procedure is applicable to the identification and enumeration of microscopic organisms occurring within samples of fresh water. Samples are prepared using a sedimentation technique, and are then examined using a compound phase contrast inverted microscope. Both phytoplankton and zooplankton are identified to species where possible, enumerated and reported.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1011313

Report Date: 30-SEP-11

Page 1 of 2

Client: AECOM Canada Ltd. (Winnipeg)
99 Commerce Drive
Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
------	--------	-----------	--------	-----------	-------	-----	-------	----------

Quality Control Report

Workorder: L1011313

Report Date: 30-SEP-11

Page 2 of 2

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



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Phytoplankton Sample Results

Lab Number: L1011313-1

Work Order: L1011313

Date Sampled: May 22, 2011

Submitter:

Source: STL-01 (PHYTO)

WQNum

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume μ3	Total Biovolume μ3
Bacillariophyceae	<i>Eunotia</i>	sp.	1200	1440	1728000
Bacillariophyceae	<i>Navicula</i>	sp.	2500	6480	16200000
Bacillariophyceae	<i>Nitzschia</i>	sp.	1200	480	576000
Chrysophyceae	<i>small chrysophytes</i>		153600	64	9830400
Euglenophyceae	<i>Euglena</i>	sp.	200	12000	2400000

Date Printed: September 29, 2011



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Phytoplankton Sample Results

Lab Number: L1011313-2

Work Order: L1011313

Date Sampled: May 22, 2011

Submitter:

Source: STC-02 (PHYTO)

WQNum

Sample Type WATER

Class	Genus	Species	Number of Cells per litre	Unit Biovolume µ3	Total Biovolume µ3
Bacillariophyceae	<i>Navicula</i>	<i>sp.</i>	1000	6500	6500000
Bacillariophyceae	<i>Nitzschia</i>	<i>sigmoidea</i>	1000	27000	27000000
Bacillariophyceae	<i>Nitzschia</i>	<i>sp.</i>	68200	1280	87296000
Bacillariophyceae	<i>Pinnularia</i>	<i>sp.</i>	1000	12375	12375000
Chlorophyceae	<i>Ankistrodesmus</i>	<i>sp.</i>	1000	240	240000
Chlorophyceae	<i>Pediastrum</i>	<i>biradiatum</i>	1000	2500	2500000
Chlorophyceae	<i>Scenedesmus</i>	<i>arcuatus</i>	8000	160	1280000
Chrysophyceae	<i>Dinobryon</i>	<i>sp.</i>	18600	540	10044000
Chrysophyceae	<i>small chrysophytes</i>		2304000	64	147456000
Cryptophyceae	<i>Cryptomonas</i>	<i>sp.</i>	6200	12000	74400000
Cyanophyceae	<i>Aphanothece</i>	<i>sp.</i>	37200	8000	297600000
Cyanophyceae	<i>Planktolyngbya</i>	<i>sp.</i>	18600	360	6696000
Euglenophyceae	<i>Euglena</i>	<i>sp.</i>	2000	6750	13500000
Fragilariophyceae	<i>Synedra</i>	<i>sp.</i>	18600	1600	29760000
Fragilariophyceae	<i>Tabellaria</i>	<i>sp.</i>	1000	2600	2600000

Date Printed: September 29, 2011



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Zooplankton Sample Results

Lab Number: L1011313-3 **Work Order: L1011313**

Date Sampled: May 22, 2011

Submitter:

Volume Decanted (mL): 100

Source: STL-01 (ZOOP)

Sample ID:

Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μ^3	Biovolume μ^3 per Sample
Rotifera				<i>Unidentified</i>		30	4.32E+05	1.30E+07
Crustacea	Copepoda			<i>Nauplii</i>		10	4.32E+05	4.32E+06
Rotifera	Monogononta	Ploima	Brachionidae	<i>Brachionus</i>	<i>sp.</i>	2440	6.30E+06	1.54E+10
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	<i>sp.</i>	30	4.32E+05	1.30E+07
Rotifera	Monogononta	Ploima	Trichocercidae	<i>Trichocerca</i>	<i>sp.</i>	30	1.20E+06	3.60E+07



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Zooplankton Sample Results

Lab Number: L1011313-4 **Work Order:** L1011313

Date Sampled: May 22, 2011
Source: STC-02 (ZOOP)

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μm^3	Biovolume per Sample μm^3
Nematoda						10	3.60E+04	3.60E+05
Crustacea	Branchiopoda	Cladocera	Chydoridae	<i>Alona</i>	<i>sp.</i>	10	1.81E+07	1.81E+08
Crustacea	Branchiopoda	Cladocera	Chydoridae	<i>Chydorus</i>	<i>sp.</i>	20	1.31E+07	2.61E+08
Crustacea	Branchiopoda	Cladocera	Daphniidae	<i>Daphnia</i>	<i>sp.</i>	40	3.97E+07	1.59E+09
Protozoa	Ciliata			<i>Unidentified</i>		10	6.48E+05	6.48E+06
Crustacea	Copepoda	Cyclopoida	Cyclopidae	<i>Cyclops</i>	<i>sp.</i>	20	2.76E+07	5.53E+08
Crustacea	Copepoda			<i>Nauplii</i>		30	4.32E+05	1.30E+07
Crustacea	Copepoda	Cyclopoida		<i>To young to ID</i>		10	3.46E+06	3.46E+07
Arthropoda	Insecta	Diptera	Chaoboridae	<i>Chaoborus</i>	<i>sp.</i>	10	8.94E+07	8.94E+08
Arthropoda	Insecta	Diptera	Chironomidae	<i>Unidentified</i>		10	7.68E+06	7.68E+07
Protozoa	Lobosa	Arcellimida	Diffugiidae	<i>Diffugia</i>	<i>sp.</i>	40	1.00E+06	4.00E+07
Rotifera	Monogononta	Ploima	Asplanchnidae	<i>Asplanchna</i>	<i>sp.</i>	20	3.46E+06	6.91E+07
Rotifera	Monogononta	Ploima	Euchlanidae	<i>Euchlanis</i>	<i>sp.</i>	20	8.64E+06	1.73E+08
Rotifera	Monogononta	Ploima	Brachionidae	<i>Kellicottia</i>	<i>longispina</i>	510	6.48E+05	3.30E+08

Date Printed: September 30, 2011



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Winnipeg, Manitoba R2J 3T4
(204) 255-9720

Zooplankton Sample Results

Lab Number: L1011313-4 **Work Order:** L1011313

Date Sampled: May 22, 2011
Source: STC-02 (ZOOP)

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 10

Phylum	Class	Order	Family	Genus	Species	Total No. per Sample	Average Biovolume μm^3	Biovolume per Sample μm^3
Rotifera	Monogononta	Ploima	Brachionidae	<i>Keratella</i>	sp.	400	4.32E+05	1.73E+08
Rotifera	Monogononta	Ploima	Lecanidae	<i>Lecane</i>	sp.	20	4.41E+05	8.82E+06
Rotifera	Monogononta	Ploima	Lecanidae	<i>Monostyla</i>	sp.	10	9.72E+05	9.72E+06
Rotifera	Monogononta	Ploima	Mytilinidae	<i>Mytilina</i>	sp.	10	1.78E+06	1.78E+07
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Polyarthra</i>	sp.	30	3.24E+05	9.72E+06
Rotifera	Monogononta	Ploima	Synchaetidae	<i>Synchaeta</i>	sp.	20	1.46E+06	2.92E+07
Rotifera	Monogononta	Ploima	Trichocercidae	<i>Trichocerca</i>	sp.	10	5.40E+05	5.40E+06
Crustacea	Ostracoda					30	4.32E+06	1.30E+08



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 08-JUN-11
Report Date: 20-JUN-11 08:09 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1014705
Project P.O. #: NOT SUBMITTED
Job Reference: 60212435-300
Legal Site Desc:
C of C Numbers:

Paul Nicolas
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-1 STL 01A							
Sampled By: SK, MH on 22-MAY-11 @ 17:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	31.1		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	0.80		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	31.1		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	0.107		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	84.0		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	2.50		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	559		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	3.29		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	73.7		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	23.0		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Silt loam				14-JUN-11	17-JUN-11	R2205676
Metals							
Aluminum (Al)	7760		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.36		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	13.6		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	62.1		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.19		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.137		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	7.6		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	5.86		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	4250		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.423		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	10.9		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	128		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	522		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	36100		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	15.1		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	2180		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	174		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.760		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	39.2		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	560		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	589		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	5.65		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	2.54		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.20		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	222		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	16.3		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	0.11		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	184		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.109		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	0.576		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	15.5		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	5840		10	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-1 STL 01A Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT							
Metals Zirconium (Zr)	2.54		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-2 STL 01B Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.14		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	32.9		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	1.13		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	33.0		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	0.122		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	85.7		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	2.67		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	680		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Metals							
Aluminum (Al)	7450		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.48		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	19.2		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	47.2		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.14		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.280		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	8.0		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	5.17		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	3640		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.456		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	12.1		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	172		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	575		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	25600		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	18.8		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	2280		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	146		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.888		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	48.7		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	660		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	668		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	5.79		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	3.22		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.21		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	288		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	13.0		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	0.22		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	0.11		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	209		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.200		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	0.542		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	16.4		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	7660		10	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-2 STL 01B Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT							
Metals Zirconium (Zr)	2.69		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-3 STL 01C Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.11		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	30.8		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	0.92		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	30.9		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	0.124		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	85.7		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	2.45		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	563		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Metals							
Aluminum (Al)	7780		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.49		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	22.7		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	40.0		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.186		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	9.4		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	5.10		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	4290		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.467		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	11.6		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	165		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	582		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	23200		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	20.3		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	2460		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	182		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.773		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	53.1		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	590		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	671		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	5.91		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	3.44		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.20		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	266		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	14.4		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	0.12		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	0.11		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	208		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.144		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	0.539		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	15.5		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	6090		10	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-3 STL 01C Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT Metals Zirconium (Zr)	3.43		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-4 STL 02A Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT Total Organic Carbon -Inorg & Total C Inorganic and Organic Carbon Inorganic Carbon	<0.10		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	28.6		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	0.73		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method Total Carbon by Combustion	28.6		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters Mercury (Hg)-Total	0.115		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	92.1		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	2.36		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	572		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Particle size - Pipette removal OM & CO3 % Sand (2.0mm - 0.05mm)	5.46		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	88.2		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	6.39		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Silt				14-JUN-11	17-JUN-11	R2205676
Note: Results Unreliable. Insufficient soil for analysis.							
Metals Aluminum (Al)	4770		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.41		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	11.7		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	112		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.268		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	5.3		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	7.56		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	3010		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.293		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	8.7		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	89.0		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	726		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	132000		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	15.2		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	1760		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	93.3		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.825		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	22.0		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	540		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	442		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	3.49		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	2.33		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.15		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	299		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	13.5		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-4 STL 02A Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT							
Metals							
Thallium (Tl)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	156		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.104		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	0.686		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	14.8		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	9080		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	1.59		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-5 STL 02B Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.14		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	30.6		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	1.14		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	30.7		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	0.100		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	90.6		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	2.49		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	548		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Metals							
Aluminum (Al)	7450		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.28		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	9.28		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	93.9		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.12		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.086		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	7.9		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	5.81		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	5610		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.415		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	10.9		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	129		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	476		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	49300		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	12.4		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	3580		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	168		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.880		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	35.7		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	660		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	672		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	5.40		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	2.29		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.13		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	595		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	18.4		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-5 STL 02B Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT							
Metals							
Thallium (Tl)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	181		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.100		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	0.660		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	16.8		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	8450		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	2.19		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-6 STL 02C Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.11		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	23.2		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	0.88		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	23.3		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	0.080		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	90.9		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	1.86		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	539		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Metals							
Aluminum (Al)	5330		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.18		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	5.61		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	73.2		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.061		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	5.8		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	6.53		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	4130		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.295		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	9.7		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	61.4		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	454		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	80000		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	9.28		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	2510		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	128		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.927		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	15.9		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	550		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	505		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	3.61		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	1.63		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.12		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	464		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	13.5		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-6 STL 02C Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT							
Metals							
Thallium (Tl)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	161		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.079		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	0.723		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	14.6		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	4440		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	1.56		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-7 STL 03A Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	31.5		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	0.71		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	31.5		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	0.135		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	90.3		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	2.35		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	591		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	2.28		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	91.5		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	6.26		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Silt				14-JUN-11	17-JUN-11	R2205676
Note: Results Unreliable. Insufficient soil for analysis.							
Metals							
Aluminum (Al)	5890		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.29		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	10.6		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	80.4		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.139		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	7.2		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	10.1		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	4080		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.334		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	11.2		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	123		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	859		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	31400		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	17.4		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	2430		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	140		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.854		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	37.9		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	640		100	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-7 STL 03A Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT							
Metals							
Potassium (K)	698		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	4.55		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	2.93		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.17		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	426		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	14.5		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	0.11		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	190		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.146		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	0.781		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	18.0		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	10400		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	2.08		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-8 STL 03B Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.13		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	32.1		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	1.11		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	32.2		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	0.113		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	88.6		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	2.41		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	541		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Metals							
Aluminum (Al)	7110		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.25		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	8.72		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	59.9		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.14		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.120		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	7.5		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	6.41		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	5110		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.395		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	12.0		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	127		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	619		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	21400		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	14.3		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	3090		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	161		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.928		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	45.9		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	620		100	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-8 STL 03B Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT							
Metals							
Potassium (K)	675		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	5.34		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	2.90		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.16		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	402		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	15.5		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	178		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.120		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	0.662		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	17.9		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	5100		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	3.11		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-9 STL 03C Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.12		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	31.5		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	1.01		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	31.6		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	0.129		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	91.6		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	2.41		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	589		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Metals							
Aluminum (Al)	7720		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.27		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	9.26		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	60.4		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.15		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.124		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	8.3		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	6.08		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	5460		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.391		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	11.1		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	106		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	550		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	34700		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	15.4		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	3180		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	148		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.842		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	35.3		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	700		100	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-9 STL 03C Sampled By: SK, MH on 22-MAY-11 @ 17:00 Matrix: SEDIMENT							
Metals							
Potassium (K)	800		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	5.32		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	2.57		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.13		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	466		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	16.2		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	184		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.121		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	0.639		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	17.8		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	6560		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	2.59		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-10 STC 01A Sampled By: SK, MH on 25-MAY-11 @ 17:00 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.12		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	9.54		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	0.96		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	9.7		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	0.058		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	90.1		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	0.608		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	716		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	44.8		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	23.1		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	32.1		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Clay loam				14-JUN-11	17-JUN-11	R2205676
Metals							
Aluminum (Al)	22800		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.19		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	26.4		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	170		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.60		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.138		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	28.1		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	1.13		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	11600		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	1.60		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	41.7		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	185		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	329		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	44000		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	9.69		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-10 STC 01A							
Sampled By: SK, MH on 25-MAY-11 @ 17:00							
Matrix: SEDIMENT							
Metals							
Magnesium (Mg)	10900		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	3850		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.675		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	47.0		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	830		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	4010		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	44.9		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	1.19		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.11		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	327		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	43.5		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	0.20		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	831		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.215		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	1.58		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	54.6		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	1280		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	5.59		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-11 STC 01B							
Sampled By: SK, MH on 25-MAY-11 @ 17:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.11		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	10.8		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	0.88		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	10.9		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	0.054		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	74.6		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	0.688		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	605		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Metals							
Aluminum (Al)	21300		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.23		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	21.3		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	152		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.63		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.131		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	24.3		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	2.02		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	9440		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	1.57		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	42.0		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	168		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	336		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	30100		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	9.26		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-11 STC 01B							
Sampled By: SK, MH on 25-MAY-11 @ 17:00							
Matrix: SEDIMENT							
Metals							
Magnesium (Mg)	10500		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	2130		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.592		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	49.6		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	580		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	4060		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	42.3		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	0.83		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.12		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	319		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	36.5		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	0.20		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	834		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.171		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	1.21		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	51.4		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	1520		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	7.34		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-12 STC 01C							
Sampled By: SK, MH on 25-MAY-11 @ 17:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	6.44		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	0.76		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	6.4		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	62.7		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	0.396		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	486		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Metals							
Aluminum (Al)	23800		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.21		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	15.9		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	152		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.69		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.142		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	24.9		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	2.10		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	9290		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	1.81		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	49.4		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	124		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	262		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	32000		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	9.31		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-12 STC 01C Sampled By: SK, MH on 25-MAY-11 @ 17:00 Matrix: SEDIMENT							
Metals							
Magnesium (Mg)	12000		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	716		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.460		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	51.0		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	570		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	4620		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	49.3		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	0.92		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.14		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	359		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	35.5		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	0.22		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	1030		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.185		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	1.50		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	57.9		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	1590		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	11.3		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-13 STC 02A Sampled By: SK, MH on 30-MAY-11 @ 15:43 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.19		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	28.1		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	1.61		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	28.3		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	0.070		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	87.2		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	1.69		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	709		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	2.24		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	64.8		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	32.9		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Silty clay loam				14-JUN-11	17-JUN-11	R2205676
Metals							
Aluminum (Al)	10300		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.19		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	4.13		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	76.9		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.27		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.116		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	17.9		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	0.652		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	16600		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	1.10		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-13 STC 02A Sampled By: SK, MH on 30-MAY-11 @ 15:43 Matrix: SEDIMENT							
Metals							
Chromium (Cr)	25.3		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	21.3		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	66.3		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	14000		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	5.66		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	6950		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	306		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.694		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	28.0		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	680		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	2100		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	21.4		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	1.26		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.14		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	253		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	59.0		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	0.14		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	497		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.094		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	3.31		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	25.1		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	497		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	14.5		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-14 STC 02B Sampled By: SK, MH on 30-MAY-11 @ 15:51 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.22		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	35.9		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	1.81		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	36.2		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	0.065		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	88.5		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	1.99		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	675		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Metals							
Aluminum (Al)	7490		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.12		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	2.57		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	65.5		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.24		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.087		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	17.6		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	0.350		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	18700		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.765		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-14 STC 02B							
Sampled By: SK, MH on 30-MAY-11 @ 15:51							
Matrix: SEDIMENT							
Metals							
Chromium (Cr)	17.7		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	9.84		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	33.5		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	9470		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	4.40		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	5810		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	298		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.618		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	17.7		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	660		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	1360		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	13.4		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	0.88		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.11		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	235		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	64.4		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	350		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.073		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	2.45		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	18.5		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	158		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	10.9		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-15 STC 02C							
Sampled By: SK, MH on 30-MAY-11 @ 16:14							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.69		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	33.8		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	5.72		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	34.5		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	0.065		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	89.3		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	1.93		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	766		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Metals							
Aluminum (Al)	7590		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	2.40		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	70.3		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.34		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.102		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	15.7		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	0.398		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	18900		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.801		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-15 STC 02C Sampled By: SK, MH on 30-MAY-11 @ 16:14 Matrix: SEDIMENT							
Metals							
Chromium (Cr)	20.7		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	11.9		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	41.5		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	9820		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	5.15		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	6090		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	276		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.521		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	19.7		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	770		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	1500		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	14.5		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	0.91		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.12		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	330		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	62.4		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	378		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.081		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	2.20		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	20.1		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	209		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	12.2		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-16 STC 03A Sampled By: SK, MH on 30-MAY-11 @ 13:58 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.15		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	11.3		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	1.28		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	11.5		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	81.8		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	0.899		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	826		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	2.28		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	31.7		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	66.0		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Clay				14-JUN-11	17-JUN-11	R2205676
Metals							
Aluminum (Al)	25900		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	3.74		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	147		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.71		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-16 STC 03A Sampled By: SK, MH on 30-MAY-11 @ 13:58 Matrix: SEDIMENT							
Metals							
Bismuth (Bi)	0.235		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	16.3		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	0.142		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	10500		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	2.53		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	61.0		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	14.9		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	27.1		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	34400		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	10.5		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	13300		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	651		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.279		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	35.4		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	930		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	5020		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	52.1		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	<0.50		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.18		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	427		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	45.6		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	0.31		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	1170		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.137		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	2.05		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	54.8		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	96		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	19.3		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-17 STC 03B Sampled By: SK, MH on 30-MAY-11 @ 13:30 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.15		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	16.9		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	1.28		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	17.0		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	0.053		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	84.2		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	1.27		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	1200		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Metals							
Aluminum (Al)	20200		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	4.29		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	141		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.66		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-17 STC 03B Sampled By: SK, MH on 30-MAY-11 @ 13:30 Matrix: SEDIMENT							
Metals							
Bismuth (Bi)	0.213		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	16.8		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	0.194		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	11000		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	2.01		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	49.1		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	12.9		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	26.1		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	29100		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	8.89		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	11400		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	634		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.326		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	29.0		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	1340		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	4590		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	41.7		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	<0.50		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.13		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	533		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	58.5		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	0.24		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	867		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.132		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	2.39		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	46.3		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	97		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	11.0		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014705-18 STC 03C Sampled By: SK, MH on 30-MAY-11 @ 13:19 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.13		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	10.2		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	1.12		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	10.3		0.1	%	14-JUN-11	14-JUN-11	R2204430
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	63.6		0.10	%	14-JUN-11	14-JUN-11	R2203729
Total Nitrogen by LECO	0.726		0.020	%	14-JUN-11	14-JUN-11	R2204430
Phosphorus, Total	728		50	mg/kg	16-JUN-11	16-JUN-11	R2205145
Metals							
Aluminum (Al)	25900		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.11		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	3.11		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	139		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.97		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014705-18 STC 03C							
Sampled By: SK, MH on 30-MAY-11 @ 13:19							
Matrix: SEDIMENT							
Metals							
Bismuth (Bi)	0.234		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	15.5		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	0.169		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	9390		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	2.65		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	63.7		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	16.1		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	24.8		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	32900		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	10.9		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	13600		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	505		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.211		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	35.4		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	730		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	4840		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	55.3		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	<0.50		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.21		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	532		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	43.5		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	0.32		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	1250		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.120		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	2.22		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	56.8		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	108		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	24.1		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
C-INORG-ORG-SK	Soil	Inorganic and Organic Carbon	SSSA (1996) P455-456
<p>When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.</p> <p>Reference: Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p>			
C-TOT-LECO-SK	Soil	Total Carbon by combustion method	SSSA (1996) P. 973-974
<p>The sample is introduced into a quartz tube where it undergoes combustion at 900 C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p>			
HG-200.2-CVAF-WP	Soil	Mercury Total	EPA 7470A Rev 1,1994
<p>A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.</p>			
MET-200.2-MS-WP	Soil	Metals	EPA 200.8/200.2 /BCMOE-S
<p>This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements . Soil samples are dried (<60 C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.</p> <p>The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.</p> <p>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 maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.</p>			
MOIST-SK	Soil	Moisture Content	ASTM D2216-80
<p>The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.</p> <p>Reference: ASTM D2216-80</p>			
N-TOT-LECO-SK	Soil	Total Nitrogen by combustion method	SSSA (1996) p. 973-974
<p>The sample is introduced into a quartz tube where it undergoes combustion at 900 C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p>			
P-SALM-ICP-SK	Soil	Total Phosphorus	EPA 200.2
<p>This analysis is carried out using procedures from CSR Analytical Method: "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, 26 June 2009, and procedures adapted from EPA Method 200.2. The sample is dried at 40 C, then ground to < 2 mm particle size using a stainless steel flail grinder. A representative portion is digested with concentrated nitric and hydrochloric acids for 2 hours in an open vessel digester at 95 degrees. Instrumental analysis of the digested extract is by ICP-OES.</p>			
PSA-3-SK	Soil	Particle size - Pipette removal OM & CO ₃	Forestry Canada (1991) p. 46-53
<p>Dry, < 2 mm soil is treated hydrochloric acid top remove carbonates, then hydrogen peroxide to remove organic matter. The remaining soil is treated with sodium hexametaphosphate to ensure complete dispersion of primary soil particles. The homogenized suspension is allowed to settle in accordance with Stoke's Law so that only clay particles remain in suspension. To determine the clay fraction, an aliquot of the clay suspension is removed, then dried and weighed. The sand fraction is determined by wet sieving the remaining suspension, then drying and weighing the sand retained</p>			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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on the sieve. The silt fraction is determined by calculation where % Silt = 100 - (%Sand+%Clay)

Reference:

Burt, R. (2009). Soil Survey Field and Laboratory Methods Manual. Soil Survey Investigations Report No. 5. Method 3.2.1.2.2. United States Department of Agriculture Natural Resources Conservation Service.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
SK	ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1014705

Report Date: 20-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-INORG-ORG-SK								
	Soil							
Batch	R2204423							
WG1295375-1	DUP	L1014705-11						
Inorganic Carbon		0.11	0.12		%	9.3	30	15-JUN-11
CaCO3 Equivalent		0.88	0.97		%	9.3	25	15-JUN-11
WG1295375-2	IRM	0.4%IC						
Inorganic Carbon			0.42		%		0.28-0.52	15-JUN-11
CaCO3 Equivalent			3.48		%		2.33-4.33	15-JUN-11
WG1295375-3	MB							
Inorganic Carbon			<0.10		%		0.1	15-JUN-11
CaCO3 Equivalent			<0.70		%		1	15-JUN-11
C-TOT-LECO-SK								
	Soil							
Batch	R2204430							
WG1294957-1	DUP	L1014705-14						
Total Carbon by Combustion		36.2	35.6		%	1.6	10	14-JUN-11
WG1294957-2	IRM	08-109_SOIL						
Total Carbon by Combustion			1.4		%		1.1-1.7	14-JUN-11
WG1294957-3	MB							
Total Carbon by Combustion			<0.1		%		0.102	14-JUN-11
HG-200.2-CVAF-WP								
	Soil							
Batch	R2204335							
WG1296273-2	CRM	NRC PACS-2						
Mercury (Hg)-Total			110		%		70-130	14-JUN-11
WG1296273-3	CRM	NRC MESS-3						
Mercury (Hg)-Total			114		%		70-130	14-JUN-11
WG1296273-4	DUP	L1014233-5						
Mercury (Hg)-Total		<0.050	<0.050	RPD-NA	mg/kg	N/A	40	14-JUN-11
WG1296273-5	DUP	L1014233-7						
Mercury (Hg)-Total		<0.050	0.056	RPD-NA	mg/kg	N/A	40	14-JUN-11
WG1296273-1	MB							
Mercury (Hg)-Total			<0.050		mg/kg		0.05	14-JUN-11
MET-200.2-MS-WP								
	Soil							
Batch	R2203484							
WG1295281-2	CRM	NRC PACS-2						
Aluminum (Al)			106		%		70-130	13-JUN-11
Antimony (Sb)			118		%		70-130	13-JUN-11
Arsenic (As)			97		%		70-130	13-JUN-11
Barium (Ba)			93		%		70-130	13-JUN-11



Quality Control Report

Workorder: L1014705

Report Date: 20-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R2203484							
WG1295281-2	CRM	NRC PACS-2						
Beryllium (Be)			112		%		70-130	13-JUN-11
Boron (B)			109		%		70-130	13-JUN-11
Cadmium (Cd)			104		%		70-130	13-JUN-11
Calcium (Ca)			98		%		70-130	13-JUN-11
Chromium (Cr)			100		%		70-130	13-JUN-11
Cobalt (Co)			98		%		70-130	13-JUN-11
Copper (Cu)			111		%		70-130	13-JUN-11
Iron (Fe)			105		%		70-130	13-JUN-11
Lead (Pb)			96		%		70-130	13-JUN-11
Magnesium (Mg)			105		%		70-130	13-JUN-11
Manganese (Mn)			102		%		70-130	13-JUN-11
Molybdenum (Mo)			105		%		70-130	13-JUN-11
Nickel (Ni)			94		%		70-130	13-JUN-11
Phosphorus (P)			102		%		70-130	13-JUN-11
Potassium (K)			95		%		70-130	13-JUN-11
Silver (Ag)			108		%		70-130	13-JUN-11
Sodium (Na)			103		%		70-130	13-JUN-11
Strontium (Sr)			105		%		70-130	13-JUN-11
Thallium (Tl)			97		%		70-130	13-JUN-11
Tin (Sn)			101		%		70-130	13-JUN-11
Titanium (Ti)			117		%		70-130	13-JUN-11
Uranium (U)			92		%		70-130	13-JUN-11
Vanadium (V)			101		%		70-130	13-JUN-11
Zinc (Zn)			92		%		70-130	13-JUN-11
WG1295281-3	CRM	NRC MESS-3						
Aluminum (Al)			87		%		70-130	13-JUN-11
Antimony (Sb)			97		%		70-130	13-JUN-11
Arsenic (As)			90		%		70-130	13-JUN-11
Barium (Ba)			96		%		70-130	13-JUN-11
Beryllium (Be)			76		%		70-130	13-JUN-11
Boron (B)			80		%		70-130	13-JUN-11
Cadmium (Cd)			87		%		70-130	13-JUN-11
Calcium (Ca)			105		%		70-130	13-JUN-11
Chromium (Cr)			92		%		70-130	13-JUN-11



Quality Control Report

Workorder: L1014705

Report Date: 20-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R2203484							
WG1295281-3	CRM	NRC MESS-3						
Cobalt (Co)			102		%		70-130	13-JUN-11
Copper (Cu)			100		%		70-130	13-JUN-11
Iron (Fe)			111		%		70-130	13-JUN-11
Lead (Pb)			91		%		70-130	13-JUN-11
Magnesium (Mg)			110		%		70-130	13-JUN-11
Manganese (Mn)			118		%		70-130	13-JUN-11
Molybdenum (Mo)			97		%		70-130	13-JUN-11
Nickel (Ni)			100		%		70-130	13-JUN-11
Phosphorus (P)			98		%		70-130	13-JUN-11
Potassium (K)			81		%		70-130	13-JUN-11
Selenium (Se)			118		%		70-130	13-JUN-11
Silver (Ag)			98		%		70-130	13-JUN-11
Sodium (Na)			101		%		70-130	13-JUN-11
Strontium (Sr)			104		%		70-130	13-JUN-11
Tin (Sn)			89		%		70-130	13-JUN-11
Uranium (U)			88		%		70-130	13-JUN-11
Vanadium (V)			83		%		70-130	13-JUN-11
Zinc (Zn)			96		%		70-130	13-JUN-11
WG1295281-5	DUP	WG1295281-4						
Aluminum (Al)		3310	2750		mg/kg	18	40	13-JUN-11
Antimony (Sb)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	13-JUN-11
Arsenic (As)		0.67	0.65		mg/kg	2.9	30	13-JUN-11
Barium (Ba)		96.1	82.4		mg/kg	15	40	13-JUN-11
Beryllium (Be)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	13-JUN-11
Bismuth (Bi)		0.037	0.033		mg/kg	14	30	13-JUN-11
Boron (B)		6.2	5.2		mg/kg	16	30	13-JUN-11
Cadmium (Cd)		0.124	0.107		mg/kg	15	30	13-JUN-11
Calcium (Ca)		188000	179000		mg/kg	4.5	30	13-JUN-11
Cesium (Cs)		0.267	0.227		mg/kg	16	30	13-JUN-11
Chromium (Cr)		6.9	6.3		mg/kg	10	30	13-JUN-11
Cobalt (Co)		1.62	1.39		mg/kg	15	30	13-JUN-11
Copper (Cu)		5.3	4.1		mg/kg	26	30	13-JUN-11
Iron (Fe)		4220	3800		mg/kg	10	30	13-JUN-11



Quality Control Report

Workorder: L1014705

Report Date: 20-JUN-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R2203484							
WG1295281-5	DUP	WG1295281-4						
Lead (Pb)		2.95	2.65		mg/kg	11	40	13-JUN-11
Magnesium (Mg)		29100	26300		mg/kg	10	30	13-JUN-11
Manganese (Mn)		169	146		mg/kg	15	30	13-JUN-11
Molybdenum (Mo)		0.067	0.076		mg/kg	13	40	13-JUN-11
Nickel (Ni)		7.55	6.72		mg/kg	12	30	13-JUN-11
Phosphorus (P)		230	200		mg/kg	10	30	13-JUN-11
Potassium (K)		429	352		mg/kg	20	40	13-JUN-11
Rubidium (Rb)		5.03	4.17		mg/kg	19	30	13-JUN-11
Selenium (Se)		<0.50	<0.50	RPD-NA	mg/kg	N/A	30	13-JUN-11
Silver (Ag)		<0.10	<0.10	RPD-NA	mg/kg	N/A	40	13-JUN-11
Sodium (Na)		281	277		mg/kg	1.5	40	13-JUN-11
Strontium (Sr)		87.6	83.4		mg/kg	5.0	40	13-JUN-11
Tellurium (Te)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	13-JUN-11
Thallium (Tl)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	13-JUN-11
Tin (Sn)		<5.0	<5.0	RPD-NA	mg/kg	N/A	40	13-JUN-11
Titanium (Ti)		154	132		mg/kg	16	40	13-JUN-11
Tungsten (W)		<0.050	<0.050	RPD-NA	mg/kg	N/A	30	13-JUN-11
Uranium (U)		0.281	0.248		mg/kg	13	30	13-JUN-11
Vanadium (V)		5.81	5.03		mg/kg	14	30	13-JUN-11
Zinc (Zn)		18	15		mg/kg	17	30	13-JUN-11
Zirconium (Zr)		0.36	0.45		mg/kg	22	30	13-JUN-11
WG1295281-7	DUP	WG1295281-6						
Aluminum (Al)		4630	4670		mg/kg	0.80	40	13-JUN-11
Antimony (Sb)		0.12	0.11		mg/kg	9.9	30	13-JUN-11
Arsenic (As)		1.72	1.73		mg/kg	0.68	30	13-JUN-11
Barium (Ba)		120	134		mg/kg	11	40	13-JUN-11
Beryllium (Be)		0.19	0.20		mg/kg	7.6	30	13-JUN-11
Bismuth (Bi)		0.074	0.084		mg/kg	13	30	13-JUN-11
Boron (B)		8.9	10.1		mg/kg	13	30	13-JUN-11
Cadmium (Cd)		0.308	0.340		mg/kg	9.7	30	13-JUN-11
Calcium (Ca)		158000	176000		mg/kg	11	30	13-JUN-11
Cesium (Cs)		0.472	0.483		mg/kg	2.4	30	13-JUN-11
Chromium (Cr)		11.1	11.4		mg/kg	2.5	30	13-JUN-11



Quality Control Report

Workorder: L1014705

Report Date: 20-JUN-11

Page 5 of 9

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R2203484							
WG1295281-7	DUP	WG1295281-6						
Cobalt (Co)		3.01	3.12		mg/kg	3.4	30	13-JUN-11
Copper (Cu)		11.3	11.1		mg/kg	1.9	30	13-JUN-11
Iron (Fe)		6370	6440		mg/kg	1.0	30	13-JUN-11
Lead (Pb)		4.91	5.29		mg/kg	7.4	40	13-JUN-11
Magnesium (Mg)		23600	25500		mg/kg	7.4	30	13-JUN-11
Manganese (Mn)		180	193		mg/kg	7.2	30	13-JUN-11
Molybdenum (Mo)		0.199	0.176		mg/kg	12	40	13-JUN-11
Nickel (Ni)		14.4	15.6		mg/kg	7.6	30	13-JUN-11
Phosphorus (P)		400	410		mg/kg	3.5	30	13-JUN-11
Potassium (K)		688	689		mg/kg	0.15	40	13-JUN-11
Rubidium (Rb)		8.65	8.78		mg/kg	1.5	30	13-JUN-11
Selenium (Se)		1.01	1.10		mg/kg	7.8	30	13-JUN-11
Silver (Ag)		<0.10	<0.10	RPD-NA	mg/kg	N/A	40	13-JUN-11
Sodium (Na)		141	161		mg/kg	13	40	13-JUN-11
Strontium (Sr)		57.2	67.3		mg/kg	16	40	13-JUN-11
Tellurium (Te)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	13-JUN-11
Thallium (Tl)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	13-JUN-11
Tin (Sn)		<5.0	<5.0	RPD-NA	mg/kg	N/A	40	13-JUN-11
Titanium (Ti)		145	138		mg/kg	5.0	40	13-JUN-11
Tungsten (W)		<0.050	<0.050	RPD-NA	mg/kg	N/A	30	13-JUN-11
Uranium (U)		0.497	0.517		mg/kg	3.9	30	13-JUN-11
Vanadium (V)		8.24	8.40		mg/kg	1.9	30	13-JUN-11
Zinc (Zn)		35	36		mg/kg	3.0	30	13-JUN-11
Zirconium (Zr)		1.76	1.93		mg/kg	9.2	30	13-JUN-11
WG1295281-1	MB							
Aluminum (Al)			<5.0		mg/kg		5	13-JUN-11
Antimony (Sb)			<0.10		mg/kg		0.1	13-JUN-11
Arsenic (As)			<0.10		mg/kg		0.1	13-JUN-11
Barium (Ba)			<0.50		mg/kg		0.5	13-JUN-11
Beryllium (Be)			<0.10		mg/kg		0.1	13-JUN-11
Bismuth (Bi)			<0.020		mg/kg		0.02	13-JUN-11
Boron (B)			<1.0		mg/kg		1	13-JUN-11
Cadmium (Cd)			<0.020		mg/kg		0.02	13-JUN-11



Quality Control Report

Workorder: L1014705

Report Date: 20-JUN-11

Page 6 of 9

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R2203484							
WG1295281-1	MB							
Calcium (Ca)			<100		mg/kg		100	13-JUN-11
Cesium (Cs)			<0.020		mg/kg		0.02	13-JUN-11
Chromium (Cr)			<1.0		mg/kg		1	13-JUN-11
Cobalt (Co)			<0.020		mg/kg		0.02	13-JUN-11
Copper (Cu)			<1.0		mg/kg		1	13-JUN-11
Iron (Fe)			<25		mg/kg		25	13-JUN-11
Lead (Pb)			<0.20		mg/kg		0.2	13-JUN-11
Magnesium (Mg)			<10		mg/kg		10	13-JUN-11
Manganese (Mn)			<0.50		mg/kg		0.5	13-JUN-11
Molybdenum (Mo)			<0.020		mg/kg		0.02	13-JUN-11
Nickel (Ni)			<0.50		mg/kg		0.5	13-JUN-11
Phosphorus (P)			<100		mg/kg		100	13-JUN-11
Potassium (K)			<25		mg/kg		25	13-JUN-11
Rubidium (Rb)			<0.020		mg/kg		0.02	13-JUN-11
Selenium (Se)			<0.50		mg/kg		0.5	13-JUN-11
Silver (Ag)			<0.10		mg/kg		0.1	13-JUN-11
Sodium (Na)			<10		mg/kg		10	13-JUN-11
Strontium (Sr)			<0.10		mg/kg		0.1	13-JUN-11
Tellurium (Te)			<0.10		mg/kg		0.1	13-JUN-11
Thallium (Tl)			<0.10		mg/kg		0.1	13-JUN-11
Tin (Sn)			<5.0		mg/kg		5	13-JUN-11
Titanium (Ti)			<0.50		mg/kg		0.5	13-JUN-11
Tungsten (W)			<0.050		mg/kg		0.05	13-JUN-11
Uranium (U)			<0.020		mg/kg		0.02	13-JUN-11
Vanadium (V)			<0.50		mg/kg		0.5	13-JUN-11
Zinc (Zn)			<10		mg/kg		10	13-JUN-11
Zirconium (Zr)			<0.10		mg/kg		0.1	13-JUN-11
N-TOT-LECO-SK								
	Soil							
Batch	R2204430							
WG1294957-1	DUP	L1014705-14						
Total Nitrogen by LECO		1.99	1.95	J	%	0.039	0.05	14-JUN-11
WG1294957-2	IRM	08-109_SOIL						
Total Nitrogen by LECO			0.109		%		0.085-0.135	14-JUN-11
WG1294957-3	MB							



Quality Control Report

Workorder: L1014705

Report Date: 20-JUN-11

Page 7 of 9

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N-TOT-LECO-SK								
	Soil							
Batch	R2204430							
WG1294957-3	MB							
Total Nitrogen by LECO			<0.020		%		0.02	14-JUN-11
P-SALM-ICP-SK								
	Soil							
Batch	R2205145							
WG1295701-2	CRM	SS-1_SOIL						
Phosphorus, Total			1060		mg/kg		750-1530	16-JUN-11
WG1295701-3	DUP	L1014705-18						
Phosphorus, Total		728	713		mg/kg	2.1	30	16-JUN-11
WG1295701-1	MB							
Phosphorus, Total			<50		mg/kg		100	16-JUN-11
PSA-3-SK								
	Soil							
Batch	R2205676							
WG1294935-1	DUP	L1014713-19						
% Sand (2.0mm - 0.05mm)		35.3	30.6	J	%	4.73	10	17-JUN-11
% Silt (0.05mm - 2um)		24.4	24.7	J	%	0.33	10	17-JUN-11
% Clay (<2um)		40.3	44.7	J	%	4.41	10	17-JUN-11
WG1294935-2	IRM	FARM2009						
% Sand (2.0mm - 0.05mm)			49.9		%		45-55	17-JUN-11
% Silt (0.05mm - 2um)			33.8		%		29-39	17-JUN-11
% Clay (<2um)			16.3		%		10-20	17-JUN-11

Quality Control Report

Workorder: L1014705

Report Date: 20-JUN-11

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L1014705

Report Date: 20-JUN-11

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Moisture Content							
	1	22-MAY-11 17:00	14-JUN-11 00:00	14	22	days	EHTR
	2	22-MAY-11 17:00	14-JUN-11 00:00	14	22	days	EHTR
	3	22-MAY-11 17:00	14-JUN-11 00:00	14	22	days	EHTR
	4	22-MAY-11 17:00	14-JUN-11 00:00	14	22	days	EHTR
	5	22-MAY-11 17:00	14-JUN-11 00:00	14	22	days	EHTR
	6	22-MAY-11 17:00	14-JUN-11 00:00	14	22	days	EHTR
	7	22-MAY-11 17:00	14-JUN-11 00:00	14	22	days	EHTR
	8	22-MAY-11 17:00	14-JUN-11 00:00	14	22	days	EHTR
	9	22-MAY-11 17:00	14-JUN-11 00:00	14	22	days	EHTR
	10	25-MAY-11 17:00	14-JUN-11 00:00	14	19	days	EHTL
	11	25-MAY-11 17:00	14-JUN-11 00:00	14	19	days	EHTL
	12	25-MAY-11 17:00	14-JUN-11 00:00	14	19	days	EHTL

Organic / Inorganic Carbon

Inorganic and Organic Carbon

	1	22-MAY-11 17:00	15-JUN-11 00:00	14	23	days	EHTR
	2	22-MAY-11 17:00	15-JUN-11 00:00	14	23	days	EHTR
	3	22-MAY-11 17:00	15-JUN-11 00:00	14	23	days	EHTR
	4	22-MAY-11 17:00	15-JUN-11 00:00	14	23	days	EHTR
	5	22-MAY-11 17:00	15-JUN-11 00:00	14	23	days	EHTR
	6	22-MAY-11 17:00	15-JUN-11 00:00	14	23	days	EHTR
	7	22-MAY-11 17:00	15-JUN-11 00:00	14	23	days	EHTR
	8	22-MAY-11 17:00	15-JUN-11 00:00	14	23	days	EHTR
	9	22-MAY-11 17:00	15-JUN-11 00:00	14	23	days	EHTR
	10	25-MAY-11 17:00	15-JUN-11 00:00	14	20	days	EHTL
	11	25-MAY-11 17:00	15-JUN-11 00:00	14	20	days	EHTL
	12	25-MAY-11 17:00	15-JUN-11 00:00	14	20	days	EHTL
	13	30-MAY-11 15:43	15-JUN-11 00:00	14	15	days	EHT
	14	30-MAY-11 15:51	15-JUN-11 00:00	14	15	days	EHT
	15	30-MAY-11 16:14	15-JUN-11 00:00	14	15	days	EHT
	16	30-MAY-11 13:58	15-JUN-11 00:00	14	15	days	EHT
	17	30-MAY-11 13:30	15-JUN-11 00:00	14	15	days	EHT
	18	30-MAY-11 13:19	15-JUN-11 00:00	14	15	days	EHT

Legend & Qualifier Definitions:

- EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
- EHTR: Exceeded ALS recommended hold time prior to sample receipt.
- EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
- EHT: Exceeded ALS recommended hold time prior to analysis.
- Rec. HT: ALS recommended hold time (see units).

Notes*:
 Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
 Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1014705 were received on 08-JUN-11 15:26.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



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

COC #

L1014705

Page 1 of 2



Report To: AECOM -W172
 Company: AECOM -W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone: _____ Fax: _____
 Invoice To: Same as Report? Yes No
 Hardcopy of Invoice with Report? Yes No
 Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____

at / Distribution Other Excel Digital Fax
 Email 1: cliff.samoiloff@aecom.com
 Email 2: _____
 Email 3: _____
 Client / Project Information
 Job #: 60212435-300
 PO / AFE: _____
 LSD: _____
 Quote #: Q24534
 ALS Contact: Christine Herrod
 Sample: SK, MH

Sample #	Lab Work Order # (lab use only)	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hr:mm)	Sample Type	C-TOT-ORG-SK	MOIST-SK	N-TOT-LECO-SK	P-SALM-ICP-SK	MET-200.2-MS-WP	HG-200.2-CVAF-WP	PREP-DRY/GRIND	PSA-1 (Or 3 if 1 not possible)	Number of Containers
		STL 01A	25MAY11	1700	Sediment	X	X	X	X	X	X	X	X	2
		STL 01B			Sediment	X	X	X	X	X	X	X		1
		STL 01C			Sediment	X	X	X	X	X	X	X		1
		STL 02A				X	X	X	X	X	X	X	X	2
		STL 02B				X	X	X	X	X	X	X	X	1
		STL 02C				X	X	X	X	X	X	X	X	1
		STL 03A				X	X	X	X	X	X	X	X	1
		STL 03B				X	X	X	X	X	X	X	X	1
		STL 03C				X	X	X	X	X	X	X	X	1
		STC 01A	25MAY11	1700		X	X	X	X	X	X	X	X	2
		STC 01B				X	X	X	X	X	X	X	X	1
		STC 01C				X	X	X	X	X	X	X	X	1

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/IAB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: _____ Date (dd-mm-yy): _____ Time (hh-mm): _____
 Received by: _____ Date: _____ Time: _____
 Temperature: _____ °C

SHIPMENT RELEASE (Client use) SHIPMENT RECEPTION (lab use only) SHIPMENT VERIFICATION (lab use only)

Observations: Yes / No? If Yes add SIF



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

COC #

Page 2 of 2



Report To: **ALS Emission**

Company: **AECOM-W**

Contact: **Cliff Samoiloff**

Address: **99 Commerce Dr**

Phone: _____ Fax: _____

Invoice To: Same as Report? No

Hardcopy of Invoice with Report? Yes No

Company: _____

Contact: _____

Address: _____

Phone: _____ Fax: _____

Lab Work Order # (lab use only): _____

ALS Contact: _____

Quote #: **Q24534**

Part Format / Distribution: Standard Other Digital Fax

DF: Excel Digital Fax

Email 1: **cliff.samoiloff@aecom.com**

Email 2: _____

Email 3: _____

Client / Project Information: _____

Job #: **60212435-300**

PO / AFE: _____

LSD: _____

Service Requested (Rush for routine analysis subject to availability):

Regular (Standard Turnaround Times - Business Days)

Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT

Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT

Same Day or Weekend Emergency - Contact ALS to Confirm TAT

Sample #	Lab Work Order # (lab use only)	Sample Identification (This description will appear on the report)	Sampler:		Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Analysis Request					Number of Containers	
			ALS	Contact				MOIST-SK	N-TOT-LECO-SK	P-SALM-ICP-SK	MET-200.2-MS-WP	HG-200.2-CVAF-WP		PREP-DRY/GRIND
		STC-02A			30MAY 11	15:43	Sediment	X	X	X	X	X	X	2
		STC-02B				15:51	Sediment	X	X	X	X	X	X	1
		STC-02C				16:14	Sediment	X	X	X	X	X	X	1
		STC-03A				13:58		X	X	X	X	X	X	2
		STC-03B				13:30		X	X	X	X	X	X	1
		STC-03C				13:19		X	X	X	X	X	X	1

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/IAB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab.

Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: _____ Date (dd-mm-yy): _____ Time (hh-mm): _____

Received by: _____ Date: _____ Time: _____

Temperature: _____

Verified by: _____ Date: _____

SHIPMENT RECEPTION (lab use only) SHIPMENT VERIFICATION (lab use only)

Observations: Yes / No? _____ If Yes add SIF _____



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 08-JUN-11
Report Date: 20-JUN-11 08:13 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1014713
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-300
Legal Site Desc:
C of C Numbers:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-1	GHL-01A						
Sampled By:	SK,MH on 20-MAY-11 @ 11:30						
Matrix:	SEDIMENT						
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.12		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	29.9		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	1.04		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	30.0		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	94.9		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	2.49		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	499		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	1.12		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	80.0		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	18.9		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Silt loam				14-JUN-11	17-JUN-11	R2205676
Metals							
Aluminum (Al)	5300		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	18.3		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	86.6		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.14		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.033		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	6.3		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	0.233		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	7420		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.424		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	10.8		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	4.63		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	20.0		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	4670		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	1.56		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	2190		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	109		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.792		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	11.0		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	410		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	595		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	6.23		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	0.78		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	141		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	27.8		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	164		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	<0.050		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	0.451		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	13.6		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	57		10	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-1							
GHL-01A							
Sampled By: SK,MH on 20-MAY-11 @ 11:30							
Matrix: SEDIMENT							
Metals							
Zirconium (Zr)	2.12		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014713-2							
GHL-01B							
Sampled By: SK,MH on 20-MAY-11 @ 11:30							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.16		0.10	%	15-JUN-11	15-JUN-11	R2204423
Total Organic Carbon	30.7		0.10	%	15-JUN-11	15-JUN-11	R2204423
CaCO3 Equivalent	1.35		0.70	%	15-JUN-11	15-JUN-11	R2204423
Total Carbon by combustion method							
Total Carbon by Combustion	30.9		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	94.9		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	2.60		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	541		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	6230		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	23.8		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	92.2		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.12		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.035		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	7.7		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	0.276		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	7990		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.541		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	12.2		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	5.49		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	25.4		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	5290		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	1.89		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	2620		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	116		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	1.16		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	11.6		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	450		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	739		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	7.62		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	0.98		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	175		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	30.6		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	195		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.058		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	0.600		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	15.1		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	71		10	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-2	GHL-01B						
Sampled By:	SK,MH on 20-MAY-11 @ 11:30						
Matrix:	SEDIMENT						
Metals							
Zirconium (Zr)	2.44		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014713-3	GHL-01C						
Sampled By:	SK,MH on 20-MAY-11 @ 11:30						
Matrix:	SEDIMENT						
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.11		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	31.3		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	0.90		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	31.4		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	0.171		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	96.1		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	2.98		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	976		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	5330		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.40		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	35.9		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	86.3		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.16		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.243		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	10.5		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	1.03		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	8810		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.479		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	10.6		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	6.06		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	31.6		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	8290		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	30.6		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	2900		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	209		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	0.898		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	12.1		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	760		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	703		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	6.46		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	1.11		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.16		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	131		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	27.7		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Thallium (Tl)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	183		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.132		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	0.467		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	14.5		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	272		10	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-3 GHL-01C Sampled By: SK,MH on 20-MAY-11 @ 11:30 Matrix: SEDIMENT Metals Zirconium (Zr)	3.62		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014713-4 GHL-02A Sampled By: SK,MH on 20-MAY-11 @ 12:00 Matrix: SEDIMENT Total Organic Carbon -Inorg & Total C Inorganic and Organic Carbon Inorganic Carbon Total Organic Carbon CaCO3 Equivalent Total Carbon by combustion method Total Carbon by Combustion Miscellaneous Parameters Mercury (Hg)-Total % Moisture Total Nitrogen by LECO Phosphorus, Total Particle size - Pipette removal OM & CO3 % Sand (2.0mm - 0.05mm) % Silt (0.05mm - 2um) % Clay (<2um) Texture Note: Results Unreliable. Insufficient soil for analysis.	0.15 31.1 1.29 31.3		0.10 0.10 0.70 0.1	% % % %	15-JUN-11 15-JUN-11 15-JUN-11 15-JUN-11	15-JUN-11 15-JUN-11 15-JUN-11 15-JUN-11	R2204452 R2204452 R2204452 R2204474
	0.251 97.4 3.11 1180		0.050 0.10 0.020 50	mg/kg % % mg/kg	13-JUN-11 14-JUN-11 15-JUN-11 15-JUN-11	14-JUN-11 14-JUN-11 15-JUN-11 15-JUN-11	R2204335 R2203726 R2204474 R2204534
	2.27 66.5 31.2		0.10 0.10 0.10	% % %	14-JUN-11 14-JUN-11 14-JUN-11	17-JUN-11 17-JUN-11 17-JUN-11	R2205676 R2205676 R2205676
	Silty clay loam				14-JUN-11	17-JUN-11	R2205676
Metals Aluminum (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Bismuth (Bi) Boron (B) Cadmium (Cd) Calcium (Ca) Cesium (Cs) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Molybdenum (Mo) Nickel (Ni) Phosphorus (P) Potassium (K) Rubidium (Rb) Selenium (Se) Silver (Ag) Sodium (Na) Strontium (Sr) Tellurium (Te)	5770 0.74 56.1 80.3 0.18 0.272 15.1 1.68 9650 0.498 11.1 8.13 50.6 13000 55.1 2960 247 1.21 14.6 1200 909 7.01 1.68 0.30 174 27.1 <0.10		5.0 0.10 0.10 0.50 0.10 0.020 1.0 0.020 100 0.020 1.0 0.020 25 0.20 10 0.50 0.020 0.50 100 25 0.020 0.50 0.10 10 0.10 0.10	mg/kg mg/kg	13-JUN-11 13-JUN-11	13-JUN-11 13-JUN-11	R2203484 R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-4							
GHL-02A							
Sampled By: SK,MH on 20-MAY-11 @ 12:00							
Matrix: SEDIMENT							
Metals							
Thallium (Tl)	0.12		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	172		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.286		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	0.557		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	15.7		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	609		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	3.97		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014713-5							
GHL-02B							
Sampled By: SK,MH on 20-MAY-11 @ 12:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.17		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	32.4		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	1.44		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	32.6		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	0.242		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	97.5		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	3.38		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	1380		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	5210		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.70		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	61.1		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	86.6		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	0.11		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.228		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	16.3		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	1.77		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	9830		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.433		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	10.0		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	8.10		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	52.0		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	15200		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	57.7		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	2940		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	296		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	1.07		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	13.6		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	1480		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	962		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	6.22		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	1.60		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.35		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	187		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	28.6		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	0.15		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-5							
GHL-02B							
Sampled By: SK,MH on 20-MAY-11 @ 12:00							
Matrix: SEDIMENT							
Metals							
Thallium (Tl)	0.11		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	154		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.320		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	0.510		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	14.9		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	883		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	3.75		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014713-6							
GHL-02C							
Sampled By: SK,MH on 20-MAY-11 @ 12:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.24		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	31.7		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	2.03		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	32.0		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	0.233		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	97.9		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	3.13		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	1060		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	5600		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Antimony (Sb)	0.67		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Arsenic (As)	56.9		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Barium (Ba)	83.2		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Beryllium (Be)	<0.10		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Bismuth (Bi)	0.262		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Boron (B)	15.5		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cadmium (Cd)	1.68		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Calcium (Ca)	10100		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cesium (Cs)	0.474		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Chromium (Cr)	11.1		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Cobalt (Co)	7.72		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Copper (Cu)	49.3		1.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Iron (Fe)	12700		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Lead (Pb)	54.2		0.20	mg/kg	13-JUN-11	13-JUN-11	R2203484
Magnesium (Mg)	3010		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Manganese (Mn)	265		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Molybdenum (Mo)	1.18		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Nickel (Ni)	14.3		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Phosphorus (P)	1230		100	mg/kg	13-JUN-11	13-JUN-11	R2203484
Potassium (K)	911		25	mg/kg	13-JUN-11	13-JUN-11	R2203484
Rubidium (Rb)	6.77		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Selenium (Se)	1.50		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Silver (Ag)	0.30		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Sodium (Na)	194		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Strontium (Sr)	28.1		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tellurium (Te)	0.13		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-6	GHL-02C						
Sampled By:	SK,MH on 20-MAY-11 @ 12:00						
Matrix:	SEDIMENT						
Metals							
Thallium (Tl)	0.11		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	13-JUN-11	R2203484
Titanium (Ti)	165		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Tungsten (W)	0.248		0.050	mg/kg	13-JUN-11	13-JUN-11	R2203484
Uranium (U)	0.547		0.020	mg/kg	13-JUN-11	13-JUN-11	R2203484
Vanadium (V)	16.0		0.50	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zinc (Zn)	665		10	mg/kg	13-JUN-11	13-JUN-11	R2203484
Zirconium (Zr)	3.66		0.10	mg/kg	13-JUN-11	13-JUN-11	R2203484
L1014713-7	GHL-03A						
Sampled By:	SK,MH on 20-MAY-11 @ 12:30						
Matrix:	SEDIMENT						
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.19		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	31.4		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	1.55		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	31.6		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	0.274		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	97.5		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	3.00		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	970		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	3.04		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	67.3		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	29.6		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Silty clay loam				14-JUN-11	17-JUN-11	R2205676
Note: Results Unreliable. Insufficient soil for analysis.							
Metals							
Aluminum (Al)	5420		5.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Antimony (Sb)	0.75		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Arsenic (As)	56.6		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Barium (Ba)	72.1		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Beryllium (Be)	0.15		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Bismuth (Bi)	0.275		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Boron (B)	14.4		1.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Cadmium (Cd)	1.88		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Calcium (Ca)	9360		100	mg/kg	13-JUN-11	14-JUN-11	R2203484
Cesium (Cs)	0.467		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Chromium (Cr)	10.5		1.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Cobalt (Co)	7.07		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Copper (Cu)	52.7		1.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Iron (Fe)	11600		25	mg/kg	13-JUN-11	14-JUN-11	R2203484
Lead (Pb)	59.7		0.20	mg/kg	13-JUN-11	14-JUN-11	R2203484
Magnesium (Mg)	2810		10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Manganese (Mn)	216		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Molybdenum (Mo)	1.25		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Nickel (Ni)	12.9		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Phosphorus (P)	1050		100	mg/kg	13-JUN-11	14-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-7							
GHL-03A							
Sampled By: SK,MH on 20-MAY-11 @ 12:30							
Matrix: SEDIMENT							
Metals							
Potassium (K)	789		25	mg/kg	13-JUN-11	14-JUN-11	R2203484
Rubidium (Rb)	6.37		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Selenium (Se)	1.56		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Silver (Ag)	0.36		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Sodium (Na)	169		10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Strontium (Sr)	27.0		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Tellurium (Te)	0.16		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Thallium (Tl)	0.11		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Titanium (Ti)	155		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Tungsten (W)	0.295		0.050	mg/kg	13-JUN-11	14-JUN-11	R2203484
Uranium (U)	0.584		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Vanadium (V)	15.6		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Zinc (Zn)	754		10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Zirconium (Zr)	3.70		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
L1014713-8							
GHL-03B							
Sampled By: SK,MH on 20-MAY-11 @ 12:30							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.20		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	31.6		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	1.68		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	31.8		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	0.323		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	97.4		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	3.16		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	1170		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	5570		5.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Antimony (Sb)	0.94		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Arsenic (As)	63.0		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Barium (Ba)	77.6		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Beryllium (Be)	0.23		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Bismuth (Bi)	0.291		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Boron (B)	14.4		1.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Cadmium (Cd)	2.47		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Calcium (Ca)	9650		100	mg/kg	13-JUN-11	14-JUN-11	R2203484
Cesium (Cs)	0.493		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Chromium (Cr)	10.9		1.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Cobalt (Co)	7.27		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Copper (Cu)	65.0		1.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Iron (Fe)	12300		25	mg/kg	13-JUN-11	14-JUN-11	R2203484
Lead (Pb)	88.2		0.20	mg/kg	13-JUN-11	14-JUN-11	R2203484
Magnesium (Mg)	3020		10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Manganese (Mn)	216		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Molybdenum (Mo)	1.34		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Nickel (Ni)	14.4		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Phosphorus (P)	1120		100	mg/kg	13-JUN-11	14-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-8							
GHL-03B							
Sampled By: SK,MH on 20-MAY-11 @ 12:30							
Matrix: SEDIMENT							
Metals							
Potassium (K)	829		25	mg/kg	13-JUN-11	14-JUN-11	R2203484
Rubidium (Rb)	6.53		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Selenium (Se)	1.73		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Silver (Ag)	0.79		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Sodium (Na)	188		10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Strontium (Sr)	28.0		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Tellurium (Te)	0.18		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Thallium (Tl)	0.13		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Titanium (Ti)	160		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Tungsten (W)	0.355		0.050	mg/kg	13-JUN-11	14-JUN-11	R2203484
Uranium (U)	0.593		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Vanadium (V)	16.3		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Zinc (Zn)	1010		10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Zirconium (Zr)	3.88		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
L1014713-9							
GHL-03C							
Sampled By: SK,MH on 20-MAY-11 @ 12:30							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.19		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	32.0		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	1.61		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	32.2		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	0.170		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	97.5		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	3.01		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	829		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	4910		5.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Antimony (Sb)	0.49		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Arsenic (As)	44.8		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Barium (Ba)	84.3		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Beryllium (Be)	0.10		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Bismuth (Bi)	0.192		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Boron (B)	11.9		1.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Cadmium (Cd)	0.976		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Calcium (Ca)	10300		100	mg/kg	13-JUN-11	14-JUN-11	R2203484
Cesium (Cs)	0.429		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Chromium (Cr)	10.6		1.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Cobalt (Co)	5.48		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Copper (Cu)	39.6		1.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Iron (Fe)	7740		25	mg/kg	13-JUN-11	14-JUN-11	R2203484
Lead (Pb)	29.3		0.20	mg/kg	13-JUN-11	14-JUN-11	R2203484
Magnesium (Mg)	2680		10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Manganese (Mn)	203		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Molybdenum (Mo)	1.30		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Nickel (Ni)	12.2		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Phosphorus (P)	790		100	mg/kg	13-JUN-11	14-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-9							
GHL-03C							
Sampled By: SK,MH on 20-MAY-11 @ 12:30							
Matrix: SEDIMENT							
Metals							
Potassium (K)	652		25	mg/kg	13-JUN-11	14-JUN-11	R2203484
Rubidium (Rb)	5.56		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Selenium (Se)	1.17		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Silver (Ag)	0.24		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Sodium (Na)	222		10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Strontium (Sr)	32.9		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Thallium (Tl)	<0.10		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Titanium (Ti)	145		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Tungsten (W)	0.139		0.050	mg/kg	13-JUN-11	14-JUN-11	R2203484
Uranium (U)	0.568		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Vanadium (V)	14.2		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Zinc (Zn)	317		10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Zirconium (Zr)	3.21		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
L1014713-10							
TED-01A							
Sampled By: SK,MH on 20-MAY-11 @ 17:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.19		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	35.0		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	1.56		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	35.2		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	0.070		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	85.0		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	1.97		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	628		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	5.43		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	76.1		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	18.5		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Silt loam				14-JUN-11	17-JUN-11	R2205676
Metals							
Aluminum (Al)	3830		5.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Antimony (Sb)	0.18		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Arsenic (As)	3.35		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Barium (Ba)	57.8		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Beryllium (Be)	<0.10		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Bismuth (Bi)	0.043		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Boron (B)	11.5		1.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Cadmium (Cd)	0.281		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Calcium (Ca)	19300		100	mg/kg	13-JUN-11	14-JUN-11	R2203484
Cesium (Cs)	0.260		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Chromium (Cr)	8.0		1.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Cobalt (Co)	2.49		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Copper (Cu)	15.8		1.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Iron (Fe)	6360		25	mg/kg	13-JUN-11	14-JUN-11	R2203484
Lead (Pb)	4.97		0.20	mg/kg	13-JUN-11	14-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-10 TED-01A							
Sampled By: SK,MH on 20-MAY-11 @ 17:00							
Matrix: SEDIMENT							
Metals							
Magnesium (Mg)	2980		10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Manganese (Mn)	149		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Molybdenum (Mo)	0.847		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Nickel (Ni)	7.04		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Phosphorus (P)	570		100	mg/kg	13-JUN-11	14-JUN-11	R2203484
Potassium (K)	570		25	mg/kg	13-JUN-11	14-JUN-11	R2203484
Rubidium (Rb)	4.23		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Selenium (Se)	0.84		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Silver (Ag)	<0.10		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Sodium (Na)	241		10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Strontium (Sr)	43.4		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Thallium (Tl)	<0.10		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Tin (Sn)	<5.0		5.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Titanium (Ti)	129		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Tungsten (W)	0.087		0.050	mg/kg	13-JUN-11	14-JUN-11	R2203484
Uranium (U)	0.500		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Vanadium (V)	9.50		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Zinc (Zn)	110		10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Zirconium (Zr)	3.28		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
L1014713-11 TED-01B							
Sampled By: SK,MH on 20-MAY-11 @ 17:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.18		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	39.1		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	1.54		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	39.2		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	0.111		0.050	mg/kg	13-JUN-11	14-JUN-11	R2204335
% Moisture	86.7		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	2.15		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	618		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	2790		5.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Antimony (Sb)	0.14		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Arsenic (As)	3.88		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Barium (Ba)	75.0		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Beryllium (Be)	0.13		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Bismuth (Bi)	0.051		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Boron (B)	7.1		1.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Cadmium (Cd)	0.348		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Calcium (Ca)	21800		100	mg/kg	13-JUN-11	14-JUN-11	R2203484
Cesium (Cs)	0.112		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Chromium (Cr)	3.8		1.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Cobalt (Co)	2.08		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Copper (Cu)	21.6		1.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Iron (Fe)	7730		25	mg/kg	13-JUN-11	14-JUN-11	R2203484
Lead (Pb)	4.05		0.20	mg/kg	13-JUN-11	14-JUN-11	R2203484

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-11 TED-01B							
Sampled By: SK,MH on 20-MAY-11 @ 17:00							
Matrix: SEDIMENT							
Metals							
Magnesium (Mg)	1990		10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Manganese (Mn)	334		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Molybdenum (Mo)	0.747		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Nickel (Ni)	4.27		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Phosphorus (P)	620		100	mg/kg	13-JUN-11	14-JUN-11	R2203484
Potassium (K)	262		25	mg/kg	13-JUN-11	14-JUN-11	R2203484
Rubidium (Rb)	1.41		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Selenium (Se)	1.26		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Silver (Ag)	<0.10		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Sodium (Na)	150		10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Strontium (Sr)	50.5		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Tellurium (Te)	<0.10		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Thallium (Tl)	<0.10		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Tin (Sn)	11.0		5.0	mg/kg	13-JUN-11	14-JUN-11	R2203484
Titanium (Ti)	73.2		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Tungsten (W)	0.050		0.050	mg/kg	13-JUN-11	14-JUN-11	R2203484
Uranium (U)	0.448		0.020	mg/kg	13-JUN-11	14-JUN-11	R2203484
Vanadium (V)	7.36		0.50	mg/kg	13-JUN-11	14-JUN-11	R2203484
Zinc (Zn)	53		10	mg/kg	13-JUN-11	14-JUN-11	R2203484
Zirconium (Zr)	2.12		0.10	mg/kg	13-JUN-11	14-JUN-11	R2203484
L1014713-12 TED-01C							
Sampled By: SK,MH on 20-MAY-11 @ 17:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.27		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	41.0		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	2.28		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	41.3		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	0.085		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	87.7		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	2.26		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	546		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	2200		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.12		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	3.40		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	93.8		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.11		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.036		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	18.4		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.240		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	22300		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	0.101		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	3.5		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	1.83		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	15.2		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	7770		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	2.77		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-12 TED-01C							
Sampled By: SK,MH on 20-MAY-11 @ 17:00							
Matrix: SEDIMENT							
Metals							
Magnesium (Mg)	2030		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	373		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.806		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	3.51		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	450		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	259		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	1.26		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	1.31		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	239		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	49.6		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	71.9		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.061		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	0.354		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	7.16		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	35		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	5.84		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-13 UCI-01A							
Sampled By: SK,MH on 21-MAY-11 @ 11:45							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.20		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	22.4		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	1.68		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	22.6		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	0.124		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	76.4		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	1.17		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	610		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	7.42		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	53.7		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	38.9		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Silty clay loam				14-JUN-11	17-JUN-11	R2205676
Metals							
Aluminum (Al)	17100		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.16		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	13.6		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	161		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.54		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.137		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	26.4		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.574		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	18100		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	1.64		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-13 UCI-01A Sampled By: SK,MH on 21-MAY-11 @ 11:45 Matrix: SEDIMENT							
Metals							
Chromium (Cr)	41.9		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	16.1		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	40.9		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	22700		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	9.88		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	7190		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	2260		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	1.41		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	28.4		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	540		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	3200		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	37.9		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	0.66		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.16		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	215		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	36.2		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.24		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	786		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.149		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	6.65		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	45.9		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	776		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	13.3		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-14 UCI-01B Sampled By: SK,MH on 21-MAY-11 @ 11:45 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.42		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	1.32		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	3.54		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	1.7		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	26.8		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	0.088		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	492		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	26900		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.13		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	5.71		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	168		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.99		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.184		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	24.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.106		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	14300		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.29		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-14 UCI-01B Sampled By: SK,MH on 21-MAY-11 @ 11:45 Matrix: SEDIMENT							
Metals							
Chromium (Cr)	69.3		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	16.4		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	33.5		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	36500		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	10.3		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	13200		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	596		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.280		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	41.4		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	490		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	5140		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	50.8		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	<0.50		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.21		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	400		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	29.5		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.31		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1450		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.121		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.22		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	70.5		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	137		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	24.8		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-15 UCI-01C Sampled By: SK,MH on 21-MAY-11 @ 11:45 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.10		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	4.83		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	0.86		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	4.9		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	48.8		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	0.256		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	552		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	28900		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.17		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	7.44		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	176		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.80		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.205		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	24.2		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.189		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	10700		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.61		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-15 UCI-01C							
Sampled By: SK,MH on 21-MAY-11 @ 11:45							
Matrix: SEDIMENT							
Metals							
Chromium (Cr)	71.2		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	16.2		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	40.7		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	39200		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	11.0		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	11700		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	636		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.264		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	40.9		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	550		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	5230		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	56.4		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	<0.50		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.21		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	372		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	31.2		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.32		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1410		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.126		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.50		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	72.4		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	257		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	21.9		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-16 GHC-01A							
Sampled By: SK,MH on 21-MAY-11 @ 15:30							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.26		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	35.3		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	2.20		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	35.5		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	0.074		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	87.2		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	1.63		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	700		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	26.8		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	66.5		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	6.64		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Silt loam				14-JUN-11	17-JUN-11	R2205676
Metals							
Aluminum (Al)	3580		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.16		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	28.8		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	63.5		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-16 GHC-01A Sampled By: SK,MH on 21-MAY-11 @ 15:30 Matrix: SEDIMENT							
Metals							
Bismuth (Bi)	0.035		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	19.0		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.255		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	14600		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	0.147		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	6.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	2.90		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	24.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	8160		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	6.92		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	2270		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	261		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.796		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	5.70		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	510		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	332		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	2.70		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	0.65		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	79		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	41.6		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	141		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.112		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	0.562		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	10.0		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	236		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	2.44		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-17 GHC-01B Sampled By: SK,MH on 21-MAY-11 @ 15:30 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.28		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	39.7		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	2.31		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	40.0		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	0.136		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	86.1		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	1.98		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	741		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	2800		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.22		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	48.8		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	60.3		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.16		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-17 GHC-01B Sampled By: SK,MH on 21-MAY-11 @ 15:30 Matrix: SEDIMENT							
Metals							
Bismuth (Bi)	0.071		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	19.1		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.418		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	15100		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	0.175		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	6.4		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	3.22		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	26.4		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	6430		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	13.6		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	2260		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	162		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.994		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	7.03		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	610		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	286		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	2.64		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	0.74		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	88		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	48.8		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	111		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.131		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	0.432		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	9.65		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	341		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	1.83		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-18 GHC-01C Sampled By: SK,MH on 21-MAY-11 @ 15:30 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.25		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	38.2		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	2.05		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	38.5		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	0.080		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	82.7		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	1.92		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	700		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	2540		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.18		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	24.7		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	42.3		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-18 GHC-01C							
Sampled By: SK,MH on 21-MAY-11 @ 15:30							
Matrix: SEDIMENT							
Metals							
Bismuth (Bi)	0.036		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	18.0		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.261		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	13200		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	0.157		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	6.5		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	1.69		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	18.2		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	3590		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	6.30		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	2110		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	80.9		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.813		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	5.83		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	500		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	313		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	2.59		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	<0.50		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	97		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	48.4		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	110		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.102		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	0.369		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	8.80		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	171		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	1.71		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-19 THC-01A							
Sampled By: SK,MH on 21-MAY-11 @ 16:30							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.27		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	14.0		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	2.26		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	14.3		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	0.066		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	63.3		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	0.694		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	576		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	35.3		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	24.4		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	40.3		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Clay loam / Clay				14-JUN-11	17-JUN-11	R2205676
Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-19 THC-01A Sampled By: SK,MH on 21-MAY-11 @ 16:30 Matrix: SEDIMENT							
Metals							
Aluminum (Al)	17100		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.22		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	29.9		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	125		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.57		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.132		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	20.8		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.349		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	17100		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	1.51		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	45.2		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	11.5		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	37.7		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	23400		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	9.79		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	8460		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	307		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	1.07		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	29.6		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	490		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	3430		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	32.1		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	<0.50		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.18		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	276		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	33.3		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.23		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	885		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.164		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.13		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	55.2		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	176		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	16.4		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-20 THC-01B Sampled By: SK,MH on 21-MAY-11 @ 16:30 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.15		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	26.0		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	1.21		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	26.1		0.1	%	15-JUN-11	15-JUN-11	R2204474
Miscellaneous Parameters							
Mercury (Hg)-Total	0.080		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	80.7		0.10	%	14-JUN-11	14-JUN-11	R2203726
Total Nitrogen by LECO	1.29		0.020	%	15-JUN-11	15-JUN-11	R2204474
Phosphorus, Total	733		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-20 THC-01B							
Sampled By: SK,MH on 21-MAY-11 @ 16:30							
Matrix: SEDIMENT							
Metals							
Aluminum (Al)	13600		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.19		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	29.3		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	114		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.54		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.111		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	22.0		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.441		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	13600		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	1.28		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	36.8		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	9.89		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	39.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	19500		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	8.96		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	6260		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	296		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	1.13		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	24.7		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	600		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	2870		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	27.4		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	0.72		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.18		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	211		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	40.1		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.19		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	666		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.132		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	2.18		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	45.1		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	219		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	14.5		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-21 THC-01C							
Sampled By: SK,MH on 21-MAY-11 @ 16:30							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.23		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	33.2		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	1.93		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	33.4		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.078		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	83.0		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	1.74		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	911		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-21 THC-01C							
Sampled By: SK,MH on 21-MAY-11 @ 16:30							
Matrix: SEDIMENT							
Metals							
Aluminum (Al)	12700		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.62		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	10.2		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	116		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.49		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.117		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	18.3		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.290		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	15000		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	1.16		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	31.3		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	6.64		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	28.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	16000		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	7.13		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	5660		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	255		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.847		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	20.3		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	710		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	2330		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	21.8		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	0.82		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.17		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	179		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	44.0		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.16		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	521		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.138		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	2.86		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	36.1		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	90		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	12.0		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-22 ANC-02A							
Sampled By: SK,MH on 22-MAY-11 @ 13:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.16		0.10	%	15-JUN-11	15-JUN-11	R2204452
Total Organic Carbon	4.11		0.10	%	15-JUN-11	15-JUN-11	R2204452
CaCO3 Equivalent	1.37		0.70	%	15-JUN-11	15-JUN-11	R2204452
Total Carbon by combustion method							
Total Carbon by Combustion	4.3		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	60.0		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	0.297		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	620		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Particle size - Pipette removal OM & CO3							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-22 ANC-02A							
Sampled By: SK,MH on 22-MAY-11 @ 13:00							
Matrix: SEDIMENT							
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	17.7		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	12.5		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	69.8		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Clay				14-JUN-11	17-JUN-11	R2205676
Metals							
Aluminum (Al)	33000		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	3.13		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	12.4		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	149		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.93		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.241		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	28.3		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.664		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	12100		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	3.07		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	80.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	23.0		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	52.0		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	43600		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	19.7		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	14600		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	648		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.444		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	49.6		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	590		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	6770		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	66.1		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	1.55		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.26		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	511		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	41.5		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.40		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1510		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.175		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.60		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	77.1		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	704		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	28.5		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-23 ANC-02B							
Sampled By: SK,MH on 22-MAY-11 @ 13:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.15		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	3.62		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	1.26		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	3.8		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-23 ANC-02B							
Sampled By: SK,MH on 22-MAY-11 @ 13:00							
Matrix: SEDIMENT							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	46.0		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	0.297		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	609		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	34500		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	4.63		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	16.8		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	144		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.95		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.251		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	30.0		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.837		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	11600		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	3.22		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	84.9		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	24.5		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	57.5		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	45500		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	23.3		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	15000		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	560		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.465		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	50.0		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	610		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	7050		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	71.3		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	1.96		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.26		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	550		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	43.5		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.43		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1540		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.188		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.56		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	79.9		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	1040		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	27.5		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-24 ANC-02C							
Sampled By: SK,MH on 22-MAY-11 @ 13:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	2.37		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	<0.70		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	2.4		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-24 ANC-02C							
Sampled By: SK,MH on 22-MAY-11 @ 13:00							
Matrix: SEDIMENT							
% Moisture	40.6		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	0.199		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	519		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	39800		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.61		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	5.61		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	181		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	1.36		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.307		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	27.3		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.161		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	8700		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	3.72		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	90.8		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	20.3		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	35.5		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	47600		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	15.9		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	17100		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	578		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.223		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	53.1		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	480		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	8120		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	83.0		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	<0.50		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.30		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	436		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	42.5		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.44		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1600		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.108		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.48		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	83.7		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	158		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	35.5		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-25 ANB 01A							
Sampled By: SK,MH on 23-MAY-11 @ 10:15							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.15		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	14.8		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	1.24		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	15.0		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.067		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	74.9		0.10	%	14-JUN-11	14-JUN-11	R2203727

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-25 ANB 01A							
Sampled By: SK,MH on 23-MAY-11 @ 10:15							
Matrix: SEDIMENT							
Total Nitrogen by LECO	1.19		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	765		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	4.98		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	60.6		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	34.4		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Silty clay loam				14-JUN-11	17-JUN-11	R2205676
Metals							
Aluminum (Al)	20800		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	14.5		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	15.2		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	100		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.77		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.191		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	26.8		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	1.36		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	14100		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.09		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	55.9		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	18.9		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	60.9		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	28800		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	14.3		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	10200		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	469		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.971		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	33.6		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	700		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	4180		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	43.4		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	3.60		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.21		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	345		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	41.9		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.44		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	921		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.220		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.70		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	50.1		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	1070		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	20.6		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-26 ANB 01B							
Sampled By: SK,MH on 23-MAY-11 @ 10:15							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.13		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	13.5		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	1.06		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-26 ANB 01B							
Sampled By: SK,MH on 23-MAY-11 @ 10:15							
Matrix: SEDIMENT							
Total Carbon by combustion method							
Total Carbon by Combustion	13.6		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.053		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	69.2		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	1.06		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	617		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	20600		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	1.71		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	5.88		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	105		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.58		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.162		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	24.8		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.483		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	12500		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	1.95		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	53.4		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	15.9		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	36.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	26900		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	10.4		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	10200		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	514		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.405		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	30.8		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	570		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	3940		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	42.6		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	1.21		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.22		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	300		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	39.0		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.26		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	911		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.107		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.67		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	49.9		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	246		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	22.9		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-27 ANB 01C							
Sampled By: SK,MH on 23-MAY-11 @ 10:15							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.11		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	11.3		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	0.90		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-27 ANB 01C							
Sampled By: SK,MH on 23-MAY-11 @ 10:15							
Matrix: SEDIMENT							
Total Carbon by combustion method							
Total Carbon by Combustion	11.4		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.068		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	68.3		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	0.916		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	577		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	21600		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	7.35		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	11.8		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	107		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.71		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.180		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	24.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	1.02		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	12700		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.06		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	55.0		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	21.9		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	48.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	30100		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	12.9		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	10300		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	569		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.692		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	32.5		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	620		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	4180		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	44.6		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	2.52		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.21		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	317		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	38.8		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.34		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	981		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.160		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.50		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	50.3		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	675		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	21.4		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-28 ANB 02A							
Sampled By: SK,MH on 23-MAY-11 @ 11:20							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	13.7		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	0.75		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-28 ANB 02A Sampled By: SK,MH on 23-MAY-11 @ 11:20 Matrix: SEDIMENT							
Total Carbon by combustion method							
Total Carbon by Combustion	13.7		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.078		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	85.3		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	1.41		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	887		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	1.01		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	59.5		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	39.4		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Silty clay loam				14-JUN-11	17-JUN-11	R2205676
Metals							
Aluminum (Al)	24100		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	4.20		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	17.1		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	137		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.94		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.243		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	71.5		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	1.12		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	12700		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.59		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	61.8		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	20.5		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	56.0		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	35800		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	16.7		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	11700		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	922		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.742		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	40.7		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	930		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	5620		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	54.0		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	2.49		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.19		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	428		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	39.8		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.40		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1080		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.160		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.49		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	55.5		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	645		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	17.3		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-29 ANB 02B Sampled By: SK,MH on 23-MAY-11 @ 11:20 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-29 ANB 02B							
Sampled By: SK,MH on 23-MAY-11 @ 11:20							
Matrix: SEDIMENT							
Inorganic and Organic Carbon							
Inorganic Carbon	0.12		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	12.6		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	0.97		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	12.7		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.079		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	85.7		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	1.35		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	821		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	24100		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	3.85		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	15.6		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	136		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.90		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.239		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	38.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	1.05		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	11800		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.63		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	61.2		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	19.8		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	51.2		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	34500		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	16.3		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	11500		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	742		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.592		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	39.5		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	810		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	5290		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	54.2		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	1.99		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.20		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	425		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	37.9		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.37		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1080		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.163		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.42		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	54.9		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	570		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	17.8		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-30 ANB 02C							
Sampled By: SK,MH on 23-MAY-11 @ 11:20							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-30 ANB 02C							
Sampled By: SK,MH on 23-MAY-11 @ 11:20							
Matrix: SEDIMENT							
Inorganic and Organic Carbon							
Inorganic Carbon	0.13		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	13.8		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	1.08		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	13.9		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.077		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	87.4		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	1.52		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	955		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	23100		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	4.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	15.3		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	132		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.76		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.251		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	47.2		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	1.36		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	11100		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.54		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	59.9		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	22.9		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	55.5		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	33900		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	17.3		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	11300		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	798		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.714		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	39.1		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	850		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	5260		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	52.4		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	2.27		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.18		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	376		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	37.0		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.39		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1040		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.202		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.42		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	53.2		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	776		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	16.9		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-31 ANB 03A							
Sampled By: SK,MH on 23-MAY-11 @ 12:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-31 ANB 03A							
Sampled By: SK,MH on 23-MAY-11 @ 12:00							
Matrix: SEDIMENT							
Inorganic and Organic Carbon							
Inorganic Carbon	0.15		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	13.4		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	1.24		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	13.5		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.071		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	79.6		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	1.31		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	831		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	0.72		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	62.5		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	36.8		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Silty clay loam				14-JUN-11	17-JUN-11	R2205676
Metals							
Aluminum (Al)	23400		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	2.46		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	11.3		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	125		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.82		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.234		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	22.1		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	1.31		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	11500		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.51		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	60.7		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	21.1		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	54.1		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	32900		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	16.4		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	11400		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	502		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.458		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	38.0		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	710		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	5020		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	51.5		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	2.26		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.23		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	348		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	35.9		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.37		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1090		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.142		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.29		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	52.9		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	720		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	20.9		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-31 ANB 03A Sampled By: SK,MH on 23-MAY-11 @ 12:00 Matrix: SEDIMENT							
L1014713-32 ANB 03B Sampled By: SK,MH on 23-MAY-11 @ 12:00 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.11		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	13.2		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	0.88		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	13.4		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.075		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	81.0		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	1.20		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	703		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	22400		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	2.16		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	11.5		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	117		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	1.01		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.218		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	22.7		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	1.13		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	12000		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.37		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	59.0		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	20.5		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	49.4		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	31700		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	15.7		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	11300		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	513		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.654		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	36.1		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	690		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	4770		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	50.0		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	1.86		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.21		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	355		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	36.8		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.34		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1010		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.123		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.58		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	52.0		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	615		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	21.5		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-33 ANB 03C							
Sampled By: SK,MH on 23-MAY-11 @ 12:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.15		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	10.6		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	1.26		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	10.8		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.057		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	78.1		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	0.999		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	637		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	24900		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.31		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	9.22		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	131		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.88		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.242		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	21.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.309		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	10300		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.65		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	65.2		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	14.8		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	34.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	32500		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	13.1		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	12500		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	495		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.715		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	39.9		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	620		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	5400		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	55.8		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	0.59		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.23		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	382		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	33.9		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.31		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1170		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.121		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.46		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	58.8		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	120		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	24.0		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-34 ANB 04A							
Sampled By: SK,MH on 23-MAY-11 @ 14:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-34 ANB 04A							
Sampled By: SK,MH on 23-MAY-11 @ 14:00							
Matrix: SEDIMENT							
Inorganic and Organic Carbon							
Inorganic Carbon	0.11		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	10.8		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	0.92		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	10.9		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.057		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	85.9		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	1.13		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	731		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	0.47		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	55.4		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	44.1		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Silty clay				14-JUN-11	17-JUN-11	R2205676
Metals							
Aluminum (Al)	25800		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.28		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	9.52		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	136		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.90		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.262		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	20.9		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.299		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	9520		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.76		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	67.0		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	14.7		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	34.5		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	32700		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	13.3		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	12900		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	500		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.470		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	41.1		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	640		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	5670		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	58.8		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	0.63		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.22		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	383		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	33.5		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.32		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1180		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.119		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.44		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	60.0		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	106		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	22.2		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-34 ANB 04A Sampled By: SK,MH on 23-MAY-11 @ 14:00 Matrix: SEDIMENT							
L1014713-35 ANB 04B Sampled By: SK,MH on 23-MAY-11 @ 14:00 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.14		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	11.4		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	1.15		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	11.6		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.078		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	86.0		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	1.28		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	854		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	26400		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	2.67		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	16.8		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	139		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	1.02		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.279		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	26.7		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.828		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	10300		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.89		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	67.3		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	18.2		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	50.3		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	39400		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	17.2		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	13100		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	613		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.587		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	42.1		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	840		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	5920		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	58.5		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	1.47		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.20		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	407		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	35.1		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.38		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1180		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.161		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.55		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	61.5		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	428		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	19.6		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-36 ANB 04C							
Sampled By: SK,MH on 23-MAY-11 @ 14:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.11		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	11.5		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	0.91		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	11.6		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.077		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	86.2		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	1.25		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	768		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Metals							
Aluminum (Al)	24700		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	2.17		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	15.6		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	130		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.93		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.257		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	24.0		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.762		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	10100		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.65		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	62.9		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	17.4		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	47.4		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	36500		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	16.0		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	12400		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	600		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.531		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	39.9		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	810		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	5530		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	55.3		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	1.40		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.19		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	445		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	34.0		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.35		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1110		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.140		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.45		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	57.4		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	408		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	17.1		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-37 ANB 05A							
Sampled By: SK,MH on 23-MAY-11 @ 12:30							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-37 ANB 05A							
Sampled By: SK,MH on 23-MAY-11 @ 12:30							
Matrix: SEDIMENT							
Inorganic and Organic Carbon							
Inorganic Carbon	0.14		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	10.7		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	1.14		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	10.8		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.076		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	84.7		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	1.17		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	871		50	mg/kg	15-JUN-11	15-JUN-11	R2204534
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	0.49		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	60.3		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	39.3		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Silty clay loam				14-JUN-11	17-JUN-11	R2205676
Metals							
Aluminum (Al)	26200		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	2.27		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	16.6		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	139		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.90		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.272		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	27.7		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.914		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	10300		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.88		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	67.8		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	21.1		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	48.5		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	38900		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	17.7		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	13300		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	701		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.500		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	42.5		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	810		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	5920		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	60.0		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	1.49		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.20		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	412		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	35.4		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.38		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1200		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.157		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.39		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	61.6		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	473		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	18.9		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-37 ANB 05A Sampled By: SK,MH on 23-MAY-11 @ 12:30 Matrix: SEDIMENT							
L1014713-38 ANB 05B Sampled By: SK,MH on 23-MAY-11 @ 12:30 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.23		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	10.1		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	1.89		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	10.4		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.068		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	83.2		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	1.13		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	918		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	27100		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	1.50		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	15.2		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	143		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	1.00		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.273		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	26.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.645		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	10100		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.97		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	70.8		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	18.1		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	43.4		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	38900		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	16.5		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	14100		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	692		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.484		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	44.0		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	780		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	6080		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	62.0		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	1.16		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.21		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	430		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	35.7		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.37		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1240		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.138		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.46		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	66.1		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	303		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	20.5		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-39 ANB 05C							
Sampled By: SK,MH on 23-MAY-11 @ 12:30							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.11		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	11.0		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	0.93		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	11.2		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	0.077		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	84.6		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	1.22		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	1030		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	26200		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	2.83		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	18.8		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	145		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	1.17		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.278		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	31.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.893		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	11500		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.91		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	70.7		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	20.0		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	49.2		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	40000		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	17.2		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	14200		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	852		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.527		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	43.8		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	910		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	6160		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	59.9		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	1.50		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.19		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	432		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	36.4		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.38		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1220		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.198		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.45		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	65.1		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	453		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	17.6		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-40 ANB 06A							
Sampled By: SK,MH on 23-MAY-11 @ 14:30							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-40 ANB 06A							
Sampled By: SK,MH on 23-MAY-11 @ 14:30							
Matrix: SEDIMENT							
Inorganic and Organic Carbon							
Inorganic Carbon	0.26		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	2.21		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	2.18		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	2.5		0.1	%	14-JUN-11	14-JUN-11	R2204456
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	59.6		0.10	%	14-JUN-11	14-JUN-11	R2203727
Total Nitrogen by LECO	0.245		0.020	%	14-JUN-11	14-JUN-11	R2204456
Phosphorus, Total	707		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	12.0		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Silt (0.05mm - 2um)	31.0		0.10	%	14-JUN-11	17-JUN-11	R2205676
% Clay (<2um)	57.0		0.10	%	14-JUN-11	17-JUN-11	R2205676
Texture	Clay				14-JUN-11	17-JUN-11	R2205676
Metals							
Aluminum (Al)	27600		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.21		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	5.88		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	140		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	1.09		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.257		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	16.0		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.110		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	9830		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.79		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	68.9		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	16.4		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	28.7		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	37100		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	11.8		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	16100		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	498		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.210		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	42.6		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	590		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	5660		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	60.3		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	<0.50		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.27		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	394		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	28.5		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.35		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1360		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.116		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.36		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	69.0		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	95		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	27.0		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-40 ANB 06A Sampled By: SK,MH on 23-MAY-11 @ 14:30 Matrix: SEDIMENT							
L1014713-41 ANB 06B Sampled By: SK,MH on 23-MAY-11 @ 14:30 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	8.93		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	<0.70		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	8.9		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.072		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	75.6		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	0.891		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	856		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	23500		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.55		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	13.4		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	125		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.93		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.272		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	20.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.351		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	8410		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.50		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	61.9		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	14.9		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	34.9		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	34000		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	14.7		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	12300		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	662		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.373		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	38.4		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	770		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	4980		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	50.9		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	0.61		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.20		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	352		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	31.9		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.30		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1100		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.182		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.85		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	60.8		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	122		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	19.4		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-42 ANB 06C							
Sampled By: SK,MH on 23-MAY-11 @ 14:30							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUN-11	15-JUN-11	R2204459
Total Organic Carbon	8.44		0.10	%	15-JUN-11	15-JUN-11	R2204459
CaCO3 Equivalent	0.81		0.70	%	15-JUN-11	15-JUN-11	R2204459
Total Carbon by combustion method							
Total Carbon by Combustion	8.4		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.071		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	78.9		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	0.846		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	844		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	24100		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	0.61		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	13.6		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	128		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.82		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.265		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	20.2		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.349		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	7690		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.62		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	61.6		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	14.8		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	33.0		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	34900		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	14.6		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	12300		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	643		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.371		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	38.1		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	760		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	5230		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	53.5		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	0.65		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.18		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	344		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	30.7		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.30		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1110		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.136		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.56		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	60.7		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	132		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	16.9		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
L1014713-43 ANB 07A							
Sampled By: SK,MH on 24-MAY-11 @ 10:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-43 ANB 07A							
Sampled By: SK,MH on 24-MAY-11 @ 10:00							
Matrix: SEDIMENT							
Inorganic and Organic Carbon							
Inorganic Carbon	0.10		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	8.52		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	0.85		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	8.6		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.072		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	81.9		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	0.935		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	1010		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	1.33		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Silt (0.05mm - 2um)	36.1		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Clay (<2um)	62.5		0.10	%	14-JUN-11	17-JUN-11	R2205714
Texture	Clay				14-JUN-11	17-JUN-11	R2205714
Metals							
Aluminum (Al)	25200		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	1.07		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	12.8		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	137		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	1.07		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.280		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	23.1		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.480		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	7990		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.89		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	68.7		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	16.8		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	36.8		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	35400		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	15.9		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	13700		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	695		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.381		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	41.9		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	850		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	5880		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	60.6		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	0.93		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.19		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	385		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	33.8		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.35		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1170		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.123		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.58		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	66.3		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	209		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	17.2		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-43 ANB 07A Sampled By: SK,MH on 24-MAY-11 @ 10:00 Matrix: SEDIMENT							
L1014713-44 ANB 07B Sampled By: SK,MH on 24-MAY-11 @ 10:00 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	8.92		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	0.79		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	8.9		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.078		0.050	mg/kg	14-JUN-11	15-JUN-11	R2204791
% Moisture	81.7		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	0.968		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	995		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	27200		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Antimony (Sb)	1.55		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Arsenic (As)	13.6		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Barium (Ba)	143		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Beryllium (Be)	0.74		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Bismuth (Bi)	0.288		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Boron (B)	23.8		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cadmium (Cd)	0.607		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Calcium (Ca)	8050		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cesium (Cs)	2.93		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Chromium (Cr)	69.4		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Cobalt (Co)	18.0		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Copper (Cu)	40.5		1.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Iron (Fe)	39400		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Lead (Pb)	16.9		0.20	mg/kg	14-JUN-11	14-JUN-11	R2204136
Magnesium (Mg)	13700		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Manganese (Mn)	681		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Molybdenum (Mo)	0.377		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Nickel (Ni)	42.8		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Phosphorus (P)	880		100	mg/kg	14-JUN-11	14-JUN-11	R2204136
Potassium (K)	5910		25	mg/kg	14-JUN-11	14-JUN-11	R2204136
Rubidium (Rb)	60.6		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Selenium (Se)	1.03		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Silver (Ag)	0.20		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Sodium (Na)	391		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Strontium (Sr)	33.7		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tellurium (Te)	<0.10		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Thallium (Tl)	0.37		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tin (Sn)	<5.0		5.0	mg/kg	14-JUN-11	14-JUN-11	R2204136
Titanium (Ti)	1230		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Tungsten (W)	0.135		0.050	mg/kg	14-JUN-11	14-JUN-11	R2204136
Uranium (U)	1.60		0.020	mg/kg	14-JUN-11	14-JUN-11	R2204136
Vanadium (V)	67.5		0.50	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zinc (Zn)	255		10	mg/kg	14-JUN-11	14-JUN-11	R2204136
Zirconium (Zr)	17.9		0.10	mg/kg	14-JUN-11	14-JUN-11	R2204136

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-45 ANB 07C							
Sampled By: SK,MH on 24-MAY-11 @ 10:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.14		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	8.76		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	1.14		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	8.9		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.083		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	82.2		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	0.954		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	922		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	32200		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	1.64		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	15.0		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	161		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	0.87		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.268		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	19.5		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.647		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	8830		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	3.09		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	75.5		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	18.4		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	43.3		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	40900		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	15.9		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	14800		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	746		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.427		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	45.3		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	1050		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	6790		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	69.5		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.29		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	0.20		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	431		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	36.5		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	0.34		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	1320		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.164		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	1.47		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	73.5		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	276		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	21.7		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-46 ANB 08A							
Sampled By: SK,MH on 24-MAY-11 @ 11:45							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-46 ANB 08A							
Sampled By: SK,MH on 24-MAY-11 @ 11:45							
Matrix: SEDIMENT							
Inorganic and Organic Carbon							
Inorganic Carbon	0.12		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	2.42		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	0.98		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	2.5		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	68.2		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	0.296		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	734		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	66.5		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Silt (0.05mm - 2um)	12.1		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Clay (<2um)	21.3		0.10	%	14-JUN-11	17-JUN-11	R2205714
Texture	Sandy clay loam				14-JUN-11	17-JUN-11	R2205714
Metals							
Aluminum (Al)	11000		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.34		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	7.76		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	62.1		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	0.28		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.094		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	8.6		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.184		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	3800		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	1.17		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	27.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	9.39		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	11.8		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	19200		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	6.02		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	5440		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	497		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.153		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	17.0		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	760		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	2440		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	22.5		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	<0.50		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	168		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	14.0		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	0.15		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	569		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.078		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.897		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	28.1		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	61		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	4.73		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-46 ANB 08A Sampled By: SK,MH on 24-MAY-11 @ 11:45 Matrix: SEDIMENT							
L1014713-47 ANB 08B Sampled By: SK,MH on 24-MAY-11 @ 11:45 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.12		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	5.65		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	1.00		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	5.8		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.070		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	82.0		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	0.663		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	1100		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	31300		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.76		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	14.8		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	160		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	0.78		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.242		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	18.8		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.341		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	7770		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	2.96		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	70.5		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	16.1		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	28.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	42000		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	14.0		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	13300		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	1160		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.306		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	40.5		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	1060		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	6230		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	63.2		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	0.77		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	0.13		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	411		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	33.0		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	0.31		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	1320		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.117		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	1.46		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	69.7		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	151		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	12.9		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-48 ANB 08C							
Sampled By: SK,MH on 24-MAY-11 @ 11:45							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.19		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	4.57		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	1.62		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	4.8		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.066		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	81.2		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	0.537		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	965		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	32200		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.67		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	16.7		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	162		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	0.86		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.236		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	18.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.321		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	8310		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	3.00		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	72.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	16.5		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	28.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	43800		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	13.8		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	13900		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	1170		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.306		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	41.1		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	1160		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	6640		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	66.4		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	0.77		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	0.13		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	429		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	34.0		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	0.32		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	1380		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.118		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	1.45		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	70.7		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	149		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	12.6		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-49 ANB 09A							
Sampled By: SK,MH on 24-MAY-11 @ 11:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-49 ANB 09A							
Sampled By: SK,MH on 24-MAY-11 @ 11:00							
Matrix: SEDIMENT							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	6.55		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	0.77		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	6.5		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.079		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	82.4		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	0.732		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	1110		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	1.99		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Silt (0.05mm - 2um)	34.0		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Clay (<2um)	64.1		0.10	%	14-JUN-11	17-JUN-11	R2205714
Texture	Clay				14-JUN-11	17-JUN-11	R2205714
Metals							
Aluminum (Al)	35200		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.74		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	22.4		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	178		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	1.03		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.271		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	20.8		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.330		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	9130		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	3.15		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	77.6		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	18.4		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	32.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	49300		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	16.3		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	14600		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	1570		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.398		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	45.2		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	1240		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	7010		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	69.8		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	0.74		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	0.14		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	423		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	37.1		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	0.34		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	1420		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.119		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	1.84		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	78.7		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	156		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	12.7		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-49 ANB 09A Sampled By: SK,MH on 24-MAY-11 @ 11:00 Matrix: SEDIMENT							
L1014713-50 ANB 09B Sampled By: SK,MH on 24-MAY-11 @ 11:00 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.13		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	5.79		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	1.09		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	5.9		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.078		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	82.5		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	0.661		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	1110		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	32800		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.77		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	20.0		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	176		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	1.00		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.286		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	20.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.342		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	8880		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	3.15		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	78.0		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	18.2		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	32.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	46800		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	16.5		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	14700		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	1370		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.389		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	45.3		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	1170		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	7010		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	71.7		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	0.90		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	0.14		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	409		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	38.4		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	0.34		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	1330		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.122		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	1.85		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	77.7		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	158		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	13.4		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-51 ANB 09C							
Sampled By: SK,MH on 24-MAY-11 @ 11:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.10		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	6.14		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	0.86		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	6.2		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.075		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	81.4		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	0.700		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	1140		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	32800		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.77		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	20.6		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	174		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	1.00		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.265		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	19.5		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.319		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	8540		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	3.01		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	77.5		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	17.8		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	31.9		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	46600		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	15.9		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	13900		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	1390		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.379		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	44.1		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	1220		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	6770		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	67.2		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	0.96		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	0.15		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	406		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	35.0		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	0.33		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	1350		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.130		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	1.82		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	75.2		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	149		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	13.1		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-52 ANB 10A							
Sampled By: SK,MH on 24-MAY-11 @ 13:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-52 ANB 10A							
Sampled By: SK,MH on 24-MAY-11 @ 13:00							
Matrix: SEDIMENT							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	2.54		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	<0.70		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	2.5		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	66.2		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	0.300		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	705		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	65.6		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Silt (0.05mm - 2um)	12.8		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Clay (<2um)	21.6		0.10	%	14-JUN-11	17-JUN-11	R2205714
Texture	Sandy clay loam				14-JUN-11	17-JUN-11	R2205714
Metals							
Aluminum (Al)	12200		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.14		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	5.93		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	65.4		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	0.24		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.103		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	8.2		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.141		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	3640		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	1.18		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	30.9		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	8.15		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	12.9		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	20500		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	6.37		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	5720		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	449		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.181		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	17.6		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	690		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	2560		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	24.3		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	<0.50		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	186		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	13.8		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	0.15		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	619		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.078		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.933		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	31.9		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	46		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	5.70		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-52 ANB 10A Sampled By: SK,MH on 24-MAY-11 @ 13:00 Matrix: SEDIMENT							
L1014713-53 ANB 10B Sampled By: SK,MH on 24-MAY-11 @ 13:00 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	1.80		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	<0.70		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	1.8		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	58.9		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	0.214		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	585		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	9820		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.11		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	4.90		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	51.6		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	0.27		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.086		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	7.8		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.127		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	3210		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.948		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	25.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	7.16		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	10.5		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	17300		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	5.49		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	4710		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	383		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.147		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	14.6		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	670		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	2140		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	19.5		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	<0.50		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	174		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	11.5		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	0.12		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	568		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.345		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.969		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	26.6		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	37		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	4.20		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-54 ANB 10C							
Sampled By: SK,MH on 24-MAY-11 @ 13:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	<0.10		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	1.72		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	0.78		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	1.7		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	52.0		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	0.207		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	620		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	10300		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	5.01		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	52.2		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	0.23		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.084		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	8.3		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.114		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	3190		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.969		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	25.4		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	7.65		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	10.3		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	17100		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	5.47		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	4620		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	360		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.144		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	14.3		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	720		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	2100		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	19.3		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	<0.50		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	180		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	11.7		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	0.13		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	534		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.073		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	1.12		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	27.2		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	37		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	4.18		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-55 THL 01A							
Sampled By: SK,MH on 27-MAY-11 @ 15:59							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-55 THL 01A							
Sampled By: SK,MH on 27-MAY-11 @ 15:59							
Matrix: SEDIMENT							
Inorganic and Organic Carbon							
Inorganic Carbon	0.27		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	33.5		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	2.22		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	33.7		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.130		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	97.5		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	3.29		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	879		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	0.96		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Silt (0.05mm - 2um)	60.7		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Clay (<2um)	38.4		0.10	%	14-JUN-11	17-JUN-11	R2205714
Texture	Silty clay loam				14-JUN-11	17-JUN-11	R2205714
Note: Results Unreliable. Insufficient soil for analysis.							
Metals							
Aluminum (Al)	3940		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.24		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	15.0		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	104		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.118		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	12.4		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.725		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	10700		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.425		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	10.5		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	3.43		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	17.4		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	7780		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	18.7		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	2020		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	177		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.826		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	9.20		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	930		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	945		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	5.37		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.05		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	139		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	25.6		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	136		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.118		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.270		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	10.6		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-55 THL 01A Sampled By: SK,MH on 27-MAY-11 @ 15:59 Matrix: SEDIMENT							
Metals							
Zinc (Zn)	114		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	2.86		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-56 THL 01B Sampled By: SK,MH on 27-MAY-11 @ 16:03 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.14		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	31.1		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	1.17		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	31.2		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.125		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	97.8		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	2.93		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	805		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	4490		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.30		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	16.6		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	91.6		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.136		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	11.4		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.766		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	10500		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.491		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	11.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	3.75		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	17.6		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	7350		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	21.1		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	2140		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	142		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.921		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	10.2		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	910		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	820		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	5.90		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.30		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	188		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	23.9		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	150		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.146		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.306		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	12.3		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-56 THL 01B Sampled By: SK,MH on 27-MAY-11 @ 16:03 Matrix: SEDIMENT							
Metals							
Zinc (Zn)	107		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	3.12		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-57 THL 01C Sampled By: SK,MH on 27-MAY-11 @ 16:08 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.13		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	33.4		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	1.09		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	33.5		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.073		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	97.3		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	3.15		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	739		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	4710		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.14		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	12.7		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	108		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.065		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	10.4		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.463		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	10500		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.595		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	14.5		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	4.52		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	17.9		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	7770		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	7.20		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	2490		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	160		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	1.09		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	11.2		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	750		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	945		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	7.65		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.12		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	189		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	28.2		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	209		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.092		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.390		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	15.0		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-57 THL 01C Sampled By: SK,MH on 27-MAY-11 @ 16:08 Matrix: SEDIMENT							
Metals							
Zinc (Zn)	97		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	3.54		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-58 THL 02A Sampled By: SK,MH on 27-MAY-11 @ 15:28 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.13		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	32.0		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	1.07		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	32.1		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.137		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	97.7		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	3.10		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	927		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	0.69		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Silt (0.05mm - 2um)	54.0		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Clay (<2um)	45.3		0.10	%	14-JUN-11	17-JUN-11	R2205714
Texture	Silty clay				14-JUN-11	17-JUN-11	R2205714
Metals							
Aluminum (Al)	4830		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.42		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	20.7		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	84.4		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.183		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	10.8		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.907		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	9470		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.430		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	11.3		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	4.65		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	21.2		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	11400		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	23.5		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1970		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	246		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	1.03		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	10.2		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	1000		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	782		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	5.25		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.50		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	135		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	22.5		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-58 THL 02A Sampled By: SK,MH on 27-MAY-11 @ 15:28 Matrix: SEDIMENT							
Metals							
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	127		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.141		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.362		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	13.7		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	121		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	3.24		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-59 THL 02B Sampled By: SK,MH on 27-MAY-11 @ 15:32 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.13		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	31.1		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	1.12		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	31.2		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.112		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	96.5		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	2.94		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	820		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	5240		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.29		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	16.7		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	82.7		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.122		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	8.6		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.591		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	8770		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.497		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	13.0		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	5.13		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	18.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	10600		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	12.0		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	2030		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	223		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.968		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	10.5		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	810		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	775		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	5.58		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.25		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	132		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	20.4		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-59 THL 02B Sampled By: SK,MH on 27-MAY-11 @ 15:32 Matrix: SEDIMENT							
Metals							
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	149		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.118		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.388		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	15.1		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	107		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	2.84		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-60 THL 02C Sampled By: SK,MH on 27-MAY-11 @ 15:36 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.16		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	31.8		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	1.33		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	32.0		0.1	%	14-JUN-11	14-JUN-11	R2204463
Miscellaneous Parameters							
Mercury (Hg)-Total	0.130		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	97.7		0.10	%	14-JUN-11	14-JUN-11	R2203728
Total Nitrogen by LECO	3.05		0.020	%	14-JUN-11	14-JUN-11	R2204463
Phosphorus, Total	895		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	4740		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.38		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	18.6		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	94.3		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.150		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	10.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.797		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	10200		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.398		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	10.9		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	4.65		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	20.3		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	13000		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	18.6		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1940		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	294		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.942		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	10.1		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	1100		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	811		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	4.79		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.28		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	137		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	23.2		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-60 THL 02C Sampled By: SK,MH on 27-MAY-11 @ 15:36 Matrix: SEDIMENT							
Metals							
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	123		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.141		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.339		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	12.9		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	121		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	3.05		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-61 THL 03A Sampled By: SK,MH on 27-MAY-11 @ 14:54 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.16		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	33.5		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	1.30		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	33.7		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	0.066		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	96.8		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	3.04		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	677		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	3.33		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Silt (0.05mm - 2um)	33.9		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Clay (<2um)	62.7		0.10	%	14-JUN-11	17-JUN-11	R2205714
Texture	Clay				14-JUN-11	17-JUN-11	R2205714
Note: Results Unreliable. Insufficient soil for analysis.							
Metals							
Aluminum (Al)	5170		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.14		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	15.7		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	126		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.074		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	10.6		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.430		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	11100		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.552		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	14.5		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	4.76		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	17.0		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	11000		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	7.11		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	2520		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	245		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	1.19		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	10.8		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	750		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	912		25	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-61 THL 03A Sampled By: SK,MH on 27-MAY-11 @ 14:54 Matrix: SEDIMENT							
Metals							
Rubidium (Rb)	7.13		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.30		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	180		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	32.2		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	194		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.097		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.421		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	17.4		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	84		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	3.75		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-62 THL 03B Sampled By: SK,MH on 27-MAY-11 @ 14:59 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.21		0.10	%	15-JUN-11	15-JUN-11	R2204464
Total Organic Carbon	35.1		0.10	%	15-JUN-11	15-JUN-11	R2204464
CaCO3 Equivalent	1.75		0.70	%	15-JUN-11	15-JUN-11	R2204464
Total Carbon by combustion method							
Total Carbon by Combustion	35.3		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	0.108		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	97.5		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	3.39		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	855		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	4120		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.27		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	18.8		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	120		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.128		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	11.4		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.653		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	9980		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.403		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	10.6		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	3.70		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	16.1		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	10700		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	15.1		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1950		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	307		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.819		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	8.50		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	990		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	866		25	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-62 THL 03B Sampled By: SK,MH on 27-MAY-11 @ 14:59 Matrix: SEDIMENT							
Metals							
Rubidium (Rb)	4.92		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.15		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	290		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	25.8		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	120		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.125		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.288		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	12.0		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	93		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	2.62		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-63 THL 03C Sampled By: SK,MH on 27-MAY-11 @ 15:03 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.61		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	32.3		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	5.08		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							
Total Carbon by Combustion	32.9		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	0.126		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	98.0		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	3.22		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	1020		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	4460		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.30		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	16.6		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	97.6		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.160		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	12.9		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.723		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	10800		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.401		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	9.4		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	3.63		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	16.1		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	8780		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	17.4		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1930		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	212		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.777		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	9.05		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	1060		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	751		25	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-63 THL 03C Sampled By: SK,MH on 27-MAY-11 @ 15:03 Matrix: SEDIMENT							
Metals							
Rubidium (Rb)	4.60		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.42		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	151		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	23.6		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	0.11		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	112		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.114		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.287		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	10.9		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	100		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	2.66		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-64 ARL 01A Sampled By: SK,MH on 29-MAY-11 @ 15:55 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.19		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	35.1		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	1.57		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							
Total Carbon by Combustion	35.3		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	0.152		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	88.7		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	3.02		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	775		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	2.04		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Silt (0.05mm - 2um)	67.8		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Clay (<2um)	30.1		0.10	%	14-JUN-11	17-JUN-11	R2205714
Texture	Silty clay loam				14-JUN-11	17-JUN-11	R2205714
Note: Results Unreliable. Insufficient soil for analysis.							
Metals							
Aluminum (Al)	4470		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.22		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	12.2		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	72.4		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.099		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	11.1		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.674		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	15300		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.330		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	8.6		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	4.05		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	27.4		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	4230		25	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-64 ARL 01A							
Sampled By: SK,MH on 29-MAY-11 @ 15:55							
Matrix: SEDIMENT							
Metals							
Lead (Pb)	14.4		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1940		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	145		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.792		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	10.4		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	910		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	483		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	3.21		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.45		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	82		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	26.7		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	88.4		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.111		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.374		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	10.1		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	124		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	2.60		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-65 ARL 01B							
Sampled By: SK,MH on 29-MAY-11 @ 16:00							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.18		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	35.1		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	1.46		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							
Total Carbon by Combustion	35.3		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	0.117		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	94.7		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	2.84		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	645		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	4910		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.19		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	13.5		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	81.6		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.083		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	11.6		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.583		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	15900		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.329		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	8.2		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	3.89		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	23.0		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	4430		25	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-65 ARL 01B Sampled By: SK,MH on 29-MAY-11 @ 16:00 Matrix: SEDIMENT							
Metals							
Lead (Pb)	11.0		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1960		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	163		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.769		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	9.43		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	710		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	401		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	3.23		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.50		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	90		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	30.3		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	92.8		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.065		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.476		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	10.6		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	79		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	2.29		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-66 ARL 01C Sampled By: SK,MH on 29-MAY-11 @ 16:04 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.16		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	37.8		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	1.30		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							
Total Carbon by Combustion	38.0		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	0.101		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	95.8		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	3.18		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	702		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	3580		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.14		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	10.6		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	83.5		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.045		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	9.5		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.427		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	13400		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.234		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	6.6		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	3.06		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	22.0		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	3310		25	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-66 ARL 01C Sampled By: SK,MH on 29-MAY-11 @ 16:04 Matrix: SEDIMENT							
Metals							
Lead (Pb)	5.76		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1510		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	145		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.751		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	7.78		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	710		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	332		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	2.25		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.11		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	89		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	26.8		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	64.5		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	<0.050		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.381		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	8.56		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	84		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	1.76		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-67 ULI 01A Sampled By: SK,MH on 29-MAY-11 @ 10:42 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.17		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	35.4		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	1.39		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							
Total Carbon by Combustion	35.6		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	0.116		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	96.8		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	3.16		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	855		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	0.86		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Silt (0.05mm - 2um)	52.6		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Clay (<2um)	46.5		0.10	%	14-JUN-11	17-JUN-11	R2205714
Texture	Silty clay				14-JUN-11	17-JUN-11	R2205714
Note: Results Unreliable. Insufficient soil for analysis.							
Metals							
Aluminum (Al)	4940		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.21		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	4.95		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	83.2		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.082		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	6.9		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-67 ULI 01A Sampled By: SK,MH on 29-MAY-11 @ 10:42 Matrix: SEDIMENT							
Metals							
Cadmium (Cd)	0.468		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	10700		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.285		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	6.0		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	7.25		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	41.9		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	4810		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	9.14		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1000		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	190		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.690		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	7.39		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	830		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	394		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	2.77		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.38		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	98		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	16.9		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	76.2		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	<0.050		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.403		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	11.2		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	71		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	0.77		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-68 ULI 01B Sampled By: SK,MH on 29-MAY-11 @ 10:50 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.25		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	35.8		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	2.08		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							
Total Carbon by Combustion	36.0		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	0.176		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	97.3		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	3.31		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	1060		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	4470		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.31		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	11.5		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	103		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.157		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	8.3		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-68 ULI 01B Sampled By: SK,MH on 29-MAY-11 @ 10:50 Matrix: SEDIMENT							
Metals							
Cadmium (Cd)	0.865		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	12700		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.376		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	7.5		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	7.20		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	41.1		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	7370		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	23.4		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1450		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	256		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.812		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	9.98		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	1290		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	679		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	4.38		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.53		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	123		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	20.0		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	83.3		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.158		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.419		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	14.9		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	94		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	0.55		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-69 ULI 01C Sampled By: SK,MH on 29-MAY-11 @ 10:55 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.17		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	34.8		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	1.44		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							
Total Carbon by Combustion	35.0		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	0.081		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	92.6		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	2.99		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	679		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	5070		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.12		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	2.94		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	77.0		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.043		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	5.0		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-69 ULI 01C Sampled By: SK,MH on 29-MAY-11 @ 10:55 Matrix: SEDIMENT							
Metals							
Cadmium (Cd)	0.350		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	9540		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.253		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	5.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	6.59		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	35.4		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	4630		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	4.71		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1000		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	166		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.704		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	6.45		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	710		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	335		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	2.42		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.17		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	104		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	17.3		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	77.0		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	<0.050		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.412		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	12.3		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	113		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	0.81		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-70 NTL 01A Sampled By: SK,MH on 28-MAY-11 @ 14:43 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.16		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	28.7		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	1.36		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							
Total Carbon by Combustion	28.9		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	0.136		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	97.0		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	2.81		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	645		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	1.11		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Silt (0.05mm - 2um)	53.6		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Clay (<2um)	45.3		0.10	%	14-JUN-11	17-JUN-11	R2205714
Texture	Silty clay				14-JUN-11	17-JUN-11	R2205714
Note: Results Unreliable. Insufficient soil for analysis.							
Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-70 NTL 01A Sampled By: SK,MH on 28-MAY-11 @ 14:43 Matrix: SEDIMENT							
Metals							
Aluminum (Al)	4280		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.30		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	8.12		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	100		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.129		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	6.6		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.740		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	10400		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.443		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	8.6		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	6.45		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	17.1		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	5730		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	14.6		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1350		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	156		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	1.04		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	10.3		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	870		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	476		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	3.41		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.57		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	108		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	20.8		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	82.9		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.066		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.273		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	9.17		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	100		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	1.85		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-71 NTL 01B Sampled By: SK,MH on 28-MAY-11 @ 14:47 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.15		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	32.4		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	1.26		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							
Total Carbon by Combustion	32.6		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	0.088		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	93.3		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	3.15		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	711		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-71 NTL 01B Sampled By: SK,MH on 28-MAY-11 @ 14:47 Matrix: SEDIMENT							
Metals							
Aluminum (Al)	4980		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.16		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	4.75		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	103		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.069		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	5.4		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.575		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	10100		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.515		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	10.5		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	6.74		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	17.5		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	6380		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	6.95		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1570		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	177		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	1.34		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	10.1		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	780		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	612		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	4.64		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.35		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	164		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	20.0		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	112		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	<0.050		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.370		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	11.8		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	114		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	1.54		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-72 NTL 01C Sampled By: SK,MH on 28-MAY-11 @ 14:55 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.15		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	32.9		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	1.27		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							
Total Carbon by Combustion	33.1		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	0.114		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	94.4		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	3.10		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	630		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-72 NTL 01C Sampled By: SK,MH on 28-MAY-11 @ 14:55 Matrix: SEDIMENT							
Metals							
Aluminum (Al)	4230		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.22		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	5.67		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	89.0		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.080		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	6.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.646		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	10800		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.452		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	9.4		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	7.06		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	16.1		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	5520		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	10.0		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1390		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	168		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	1.07		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	10.7		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	780		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	456		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	3.63		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.42		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	72		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	19.3		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	90.1		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.076		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.279		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	8.86		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	129		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	1.75		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-73 GSL 01A Sampled By: SK,MH on 28-MAY-11 @ 10:31 Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.22		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	30.4		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	1.85		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							
Total Carbon by Combustion	30.6		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	0.191		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	90.2		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	2.98		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	1000		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Particle size - Pipette removal OM & CO3							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-73 GSL 01A							
Sampled By: SK,MH on 28-MAY-11 @ 10:31							
Matrix: SEDIMENT							
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	1.28		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Silt (0.05mm - 2um)	74.0		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Clay (<2um)	24.8		0.10	%	14-JUN-11	17-JUN-11	R2205714
Texture	Silt loam				14-JUN-11	17-JUN-11	R2205714
Metals							
Aluminum (Al)	4590		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.27		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	26.6		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	71.3		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.133		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	9.0		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.828		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	14800		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.383		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	11.2		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	7.08		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	19.8		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	24400		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	16.0		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1890		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	766		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.815		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	12.9		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	1780		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	1270		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	3.92		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.42		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	133		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	18.6		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	106		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.162		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.289		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	11.8		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	151		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	3.41		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-74 GSL 01B							
Sampled By: SK,MH on 28-MAY-11 @ 10:40							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.14		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	31.8		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	1.17		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							
Total Carbon by Combustion	32.0		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-74 GSL 01B							
Sampled By: SK,MH on 28-MAY-11 @ 10:40							
Matrix: SEDIMENT							
Mercury (Hg)-Total	0.087		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	94.4		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	2.70		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	546		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	4590		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	9.65		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	62.7		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.027		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	7.4		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.436		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	12200		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.374		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	9.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	5.66		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	10.7		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	12300		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	2.94		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1510		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	330		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.860		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	10.6		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	550		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	422		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	3.30		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	0.98		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	75		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	18.2		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	89.8		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	<0.050		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.246		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	9.97		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	85		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	3.64		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-75 GSL 01C							
Sampled By: SK,MH on 28-MAY-11 @ 10:51							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.16		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	31.1		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	1.29		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							
Total Carbon by Combustion	31.2		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	0.107		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-75 GSL 01C							
Sampled By: SK,MH on 28-MAY-11 @ 10:51							
Matrix: SEDIMENT							
% Moisture	93.3		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	2.80		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	662		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	3920		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.12		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	11.7		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	57.4		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.052		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	7.9		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.479		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	11700		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	0.349		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	9.4		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	6.07		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	12.8		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	11900		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	5.50		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	1540		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	302		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.889		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	10.4		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	630		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	432		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	3.03		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	1.00		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	76		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	16.4		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	84.0		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	<0.050		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	0.258		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	9.72		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	99		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	2.76		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-76 ANC 01A							
Sampled By: SK,MH on 30-MAY-11 @ 10:17							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.98		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	0.48		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	8.16		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							
Total Carbon by Combustion	1.5		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	29.9		0.10	%	14-JUN-11	14-JUN-11	R2203848

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-76 ANC 01A							
Sampled By: SK,MH on 30-MAY-11 @ 10:17							
Matrix: SEDIMENT							
Total Nitrogen by LECO	0.059		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	568		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Particle size - Pipette removal OM & CO3							
% Sand (2.0mm - 0.05mm)	17.0		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Silt (0.05mm - 2um)	13.0		0.10	%	14-JUN-11	17-JUN-11	R2205714
% Clay (<2um)	70.0		0.10	%	14-JUN-11	17-JUN-11	R2205714
Texture	Clay				14-JUN-11	17-JUN-11	R2205714
Metals							
Aluminum (Al)	38800		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.77		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	5.32		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	168		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	1.05		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.284		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	17.2		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.121		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	38200		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	3.29		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	75.9		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	18.4		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	37.0		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	43900		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	11.8		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	22300		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	732		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.332		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	48.4		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	660		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	7910		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	73.1		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	<0.50		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	0.21		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	682		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	54.1		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	0.36		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	1710		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.097		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	1.15		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	79.2		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	155		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	41.4		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-77 ANC 01B							
Sampled By: SK,MH on 30-MAY-11 @ 10:27							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.98		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	1.60		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	8.13		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-77 ANC 01B							
Sampled By: SK,MH on 30-MAY-11 @ 10:27							
Matrix: SEDIMENT							
Total Carbon by combustion method							
Total Carbon by Combustion	2.6		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	36.0		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	0.145		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	600		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	34200		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	1.97		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	7.40		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	144		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	0.90		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.214		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	17.3		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.301		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	31600		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	2.61		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	67.1		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	17.9		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	37.2		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	39100		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	11.5		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	19900		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	620		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.309		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	41.4		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	640		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	6890		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	60.9		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	0.90		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	0.18		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	562		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	45.2		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	0.31		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	1420		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.126		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	1.06		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	68.1		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	307		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	31.3		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
L1014713-78 ANC 01C							
Sampled By: SK,MH on 30-MAY-11 @ 10:36							
Matrix: SEDIMENT							
Total Organic Carbon -Inorg & Total C							
Inorganic and Organic Carbon							
Inorganic Carbon	0.88		0.10	%	15-JUN-11	15-JUN-11	R2204889
Total Organic Carbon	0.55		0.10	%	15-JUN-11	15-JUN-11	R2204889
CaCO3 Equivalent	7.32		0.70	%	15-JUN-11	15-JUN-11	R2204889
Total Carbon by combustion method							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1014713-78 ANC 01C							
Sampled By: SK,MH on 30-MAY-11 @ 10:36							
Matrix: SEDIMENT							
Total Carbon by combustion method							
Total Carbon by Combustion	1.4		0.1	%	15-JUN-11	15-JUN-11	R2204697
Miscellaneous Parameters							
Mercury (Hg)-Total	<0.050		0.050	mg/kg	15-JUN-11	16-JUN-11	R2205657
% Moisture	33.8		0.10	%	14-JUN-11	14-JUN-11	R2203848
Total Nitrogen by LECO	0.070		0.020	%	15-JUN-11	15-JUN-11	R2204697
Phosphorus, Total	605		50	mg/kg	16-JUN-11	16-JUN-11	R2205480
Metals							
Aluminum (Al)	37500		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Antimony (Sb)	0.88		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Arsenic (As)	5.89		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Barium (Ba)	160		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Beryllium (Be)	1.09		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Bismuth (Bi)	0.257		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Boron (B)	17.5		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cadmium (Cd)	0.120		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Calcium (Ca)	37900		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cesium (Cs)	3.03		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Chromium (Cr)	74.6		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Cobalt (Co)	18.2		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Copper (Cu)	37.5		1.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Iron (Fe)	42800		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Lead (Pb)	12.0		0.20	mg/kg	15-JUN-11	15-JUN-11	R2204729
Magnesium (Mg)	20500		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Manganese (Mn)	712		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Molybdenum (Mo)	0.289		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Nickel (Ni)	46.8		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Phosphorus (P)	660		100	mg/kg	15-JUN-11	15-JUN-11	R2204729
Potassium (K)	7590		25	mg/kg	15-JUN-11	15-JUN-11	R2204729
Rubidium (Rb)	70.4		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Selenium (Se)	0.52		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Silver (Ag)	0.21		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Sodium (Na)	618		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Strontium (Sr)	51.5		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tellurium (Te)	<0.10		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Thallium (Tl)	0.34		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tin (Sn)	<5.0		5.0	mg/kg	15-JUN-11	15-JUN-11	R2204729
Titanium (Ti)	1600		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Tungsten (W)	0.106		0.050	mg/kg	15-JUN-11	15-JUN-11	R2204729
Uranium (U)	1.11		0.020	mg/kg	15-JUN-11	15-JUN-11	R2204729
Vanadium (V)	78.3		0.50	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zinc (Zn)	188		10	mg/kg	15-JUN-11	15-JUN-11	R2204729
Zirconium (Zr)	37.6		0.10	mg/kg	15-JUN-11	15-JUN-11	R2204729

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
C-INORG-ORG-SK	Soil	Inorganic and Organic Carbon	SSSA (1996) P455-456
<p>When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.</p> <p>Reference: Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p>			
C-TOT-LECO-SK	Soil	Total Carbon by combustion method	SSSA (1996) P. 973-974
<p>The sample is introduced into a quartz tube where it undergoes combustion at 900 C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p>			
HG-200.2-CVAF-WP	Soil	Mercury Total	EPA 7470A Rev 1,1994
<p>A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.</p>			
MET-200.2-MS-WP	Soil	Metals	EPA 200.8/200.2 /BCMOE-S
<p>This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements . Soil samples are dried (<60 C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.</p> <p>The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.</p> <p>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 maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.</p>			
MOIST-SK	Soil	Moisture Content	ASTM D2216-80
<p>The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.</p> <p>Reference: ASTM D2216-80</p>			
N-TOT-LECO-SK	Soil	Total Nitrogen by combustion method	SSSA (1996) p. 973-974
<p>The sample is introduced into a quartz tube where it undergoes combustion at 900 C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p>			
P-SALM-ICP-SK	Soil	Total Phosphorus	EPA 200.2
<p>This analysis is carried out using procedures from CSR Analytical Method: "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, 26 June 2009, and procedures adapted from EPA Method 200.2. The sample is dried at 40 C, then ground to < 2 mm particle size using a stainless steel flail grinder. A representative portion is digested with concentrated nitric and hydrochloric acids for 2 hours in an open vessel digester at 95 degrees. Instrumental analysis of the digested extract is by ICP-OES.</p>			
PSA-3-SK	Soil	Particle size - Pipette removal OM & CO ₃	Forestry Canada (1991) p. 46-53
<p>Dry, < 2 mm soil is treated hydrochloric acid top remove carbonates, then hydrogen peroxide to remove organic matter. The remaining soil is treated with sodium hexametaphosphate to ensure complete dispersion of primary soil particles. The homogenized suspension is allowed to settle in accordance with Stoke's Law so that only clay particles remain in suspension. To determine the clay fraction, an aliquot of the clay suspension is removed, then dried and weighed. The sand fraction is determined by wet sieving the remaining suspension, then drying and weighing the sand retained</p>			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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on the sieve. The silt fraction is determined by calculation where % Silt = 100 - (%Sand+%Clay)

Reference:

Burt, R. (2009). Soil Survey Field and Laboratory Methods Manual. Soil Survey Investigations Report No. 5. Method 3.2.1.2.2. United States Department of Agriculture Natural Resources Conservation Service.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
SK	ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1014713

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-INORG-ORG-SK								
	Soil							
Batch	R2204423							
WG1295375-1	DUP	L1014705-11						
Inorganic Carbon		0.11	0.12		%	9.3	30	15-JUN-11
CaCO3 Equivalent		0.88	0.97		%	9.3	25	15-JUN-11
WG1295375-2	IRM	0.4%IC						
Inorganic Carbon			0.42		%		0.28-0.52	15-JUN-11
CaCO3 Equivalent			3.48		%		2.33-4.33	15-JUN-11
WG1295375-3	MB							
Inorganic Carbon			<0.10		%		0.1	15-JUN-11
CaCO3 Equivalent			<0.70		%		1	15-JUN-11
Batch	R2204452							
WG1295381-1	DUP	L1014713-15						
Inorganic Carbon		0.10	0.11		%	7.0	30	15-JUN-11
CaCO3 Equivalent		0.86	0.93		%	7.0	25	15-JUN-11
WG1295381-2	IRM	0.4%IC						
Inorganic Carbon			0.40		%		0.28-0.52	15-JUN-11
CaCO3 Equivalent			3.34		%		2.33-4.33	15-JUN-11
WG1295381-3	MB							
Inorganic Carbon			<0.10		%		0.1	15-JUN-11
CaCO3 Equivalent			<0.70		%		1	15-JUN-11
Batch	R2204459							
WG1295382-1	DUP	L1014713-34						
Inorganic Carbon		0.11	0.12		%	6.9	30	15-JUN-11
CaCO3 Equivalent		0.92	0.98		%	6.9	25	15-JUN-11
WG1295382-2	IRM	0.4%IC						
Inorganic Carbon			0.39		%		0.28-0.52	15-JUN-11
CaCO3 Equivalent			3.23		%		2.33-4.33	15-JUN-11
WG1295382-3	MB							
Inorganic Carbon			<0.10		%		0.1	15-JUN-11
CaCO3 Equivalent			<0.70		%		1	15-JUN-11
Batch	R2204464							
WG1295384-1	DUP	L1014713-52						
Inorganic Carbon		<0.10	<0.10	RPD-NA	%	N/A	30	15-JUN-11
CaCO3 Equivalent		<0.70	<0.70	RPD-NA	%	N/A	25	15-JUN-11
WG1295384-2	IRM	0.4%IC						
Inorganic Carbon			0.43		%		0.28-0.52	15-JUN-11
CaCO3 Equivalent			3.56		%		2.33-4.33	15-JUN-11
WG1295384-3	MB							



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-INORG-ORG-SK								
	Soil							
Batch	R2204464							
WG1295384-3	MB							
Inorganic Carbon			<0.10		%		0.1	15-JUN-11
CaCO3 Equivalent			<0.70		%		1	15-JUN-11
Batch	R2204889							
WG1295386-1	DUP	L1014713-68						
Inorganic Carbon		0.25	0.28		%	11	30	15-JUN-11
CaCO3 Equivalent		2.08	2.33		%	11	25	15-JUN-11
WG1295386-2	IRM	0.4%IC						
Inorganic Carbon			0.43		%		0.28-0.52	15-JUN-11
CaCO3 Equivalent			3.60		%		2.33-4.33	15-JUN-11
WG1295386-3	MB							
Inorganic Carbon			<0.10		%		0.1	15-JUN-11
CaCO3 Equivalent			<0.70		%		1	15-JUN-11
C-TOT-LECO-SK								
	Soil							
Batch	R2204456							
WG1294960-1	DUP	L1014713-33						
Total Carbon by Combustion		10.8	11.0		%	1.9	10	14-JUN-11
WG1294960-2	IRM	08-109_SOIL						
Total Carbon by Combustion			1.4		%		1.1-1.7	14-JUN-11
WG1294960-3	MB							
Total Carbon by Combustion			<0.1		%		0.102	14-JUN-11
Batch	R2204463							
WG1294962-1	DUP	L1014713-50						
Total Carbon by Combustion		5.9	5.9		%	0.072	10	14-JUN-11
WG1294962-2	IRM	08-109_SOIL						
Total Carbon by Combustion			1.4		%		1.1-1.7	14-JUN-11
WG1294962-3	MB							
Total Carbon by Combustion			<0.1		%		0.102	14-JUN-11
Batch	R2204474							
WG1294958-1	DUP	L1014713-10						
Total Carbon by Combustion		35.2	36.6		%	4.0	10	15-JUN-11
WG1294958-2	IRM	08-109_SOIL						
Total Carbon by Combustion			1.4		%		1.1-1.7	15-JUN-11
WG1294958-3	MB							
Total Carbon by Combustion			<0.1		%		0.102	15-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-LECO-SK								
	Soil							
Batch	R2204697							
WG1294964-1	DUP	L1014713-74						
Total Carbon by Combustion		32.0	31.9		%	0.39	10	15-JUN-11
WG1294964-2	IRM	08-109_SOIL						
Total Carbon by Combustion			1.4		%		1.1-1.7	15-JUN-11
WG1294964-3	MB							
Total Carbon by Combustion			<0.1		%		0.102	15-JUN-11
HG-200.2-CVAF-WP								
	Soil							
Batch	R2204335							
WG1296273-2	CRM	NRC PACS-2						
Mercury (Hg)-Total			110		%		70-130	14-JUN-11
WG1296273-3	CRM	NRC MESS-3						
Mercury (Hg)-Total			114		%		70-130	14-JUN-11
WG1296273-4	DUP	L1014233-5						
Mercury (Hg)-Total		<0.050	<0.050	RPD-NA	mg/kg	N/A	40	14-JUN-11
WG1296273-5	DUP	L1014233-7						
Mercury (Hg)-Total		<0.050	0.056	RPD-NA	mg/kg	N/A	40	14-JUN-11
WG1296273-1	MB							
Mercury (Hg)-Total			<0.050		mg/kg		0.05	14-JUN-11
Batch	R2204791							
WG1296843-2	CRM	NRC PACS-2						
Mercury (Hg)-Total			117		%		70-130	15-JUN-11
WG1296843-3	CRM	NRC MESS-3						
Mercury (Hg)-Total			113		%		70-130	15-JUN-11
WG1296843-4	DUP	L1014713-43						
Mercury (Hg)-Total		0.072	0.075		mg/kg	3.8	40	15-JUN-11
WG1296843-5	DUP	L1014713-44						
Mercury (Hg)-Total		0.078	0.075		mg/kg	4.7	40	15-JUN-11
WG1296843-1	MB							
Mercury (Hg)-Total			<0.050		mg/kg		0.05	15-JUN-11
Batch	R2205657							
WG1297812-2	CRM	NRC PACS-2						
Mercury (Hg)-Total			119		%		70-130	16-JUN-11
WG1297812-3	CRM	NRC MESS-3						
Mercury (Hg)-Total			115		%		70-130	16-JUN-11
WG1297812-4	DUP	L1014713-63						
Mercury (Hg)-Total		0.126	0.139		mg/kg	10	40	16-JUN-11
WG1297812-5	DUP	L1014713-78						
Mercury (Hg)-Total		<0.050	<0.050	RPD-NA	mg/kg	N/A	40	16-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-200.2-CVAF-WP								
	Soil							
Batch	R2205657							
WG1297812-1	MB							
Mercury (Hg)-Total			<0.050		mg/kg		0.05	16-JUN-11
MET-200.2-MS-WP								
	Soil							
Batch	R2203484							
WG1295281-2	CRM	NRC PACS-2						
Aluminum (Al)			106		%		70-130	13-JUN-11
Antimony (Sb)			118		%		70-130	13-JUN-11
Arsenic (As)			97		%		70-130	13-JUN-11
Barium (Ba)			93		%		70-130	13-JUN-11
Beryllium (Be)			112		%		70-130	13-JUN-11
Boron (B)			109		%		70-130	13-JUN-11
Cadmium (Cd)			104		%		70-130	13-JUN-11
Calcium (Ca)			98		%		70-130	13-JUN-11
Chromium (Cr)			100		%		70-130	13-JUN-11
Cobalt (Co)			98		%		70-130	13-JUN-11
Copper (Cu)			111		%		70-130	13-JUN-11
Iron (Fe)			105		%		70-130	13-JUN-11
Lead (Pb)			96		%		70-130	13-JUN-11
Magnesium (Mg)			105		%		70-130	13-JUN-11
Manganese (Mn)			102		%		70-130	13-JUN-11
Molybdenum (Mo)			105		%		70-130	13-JUN-11
Nickel (Ni)			94		%		70-130	13-JUN-11
Phosphorus (P)			102		%		70-130	13-JUN-11
Potassium (K)			95		%		70-130	13-JUN-11
Silver (Ag)			108		%		70-130	13-JUN-11
Sodium (Na)			103		%		70-130	13-JUN-11
Strontium (Sr)			105		%		70-130	13-JUN-11
Thallium (Tl)			97		%		70-130	13-JUN-11
Tin (Sn)			101		%		70-130	13-JUN-11
Titanium (Ti)			117		%		70-130	13-JUN-11
Uranium (U)			92		%		70-130	13-JUN-11
Vanadium (V)			101		%		70-130	13-JUN-11
Zinc (Zn)			92		%		70-130	13-JUN-11
WG1295281-3	CRM	NRC MESS-3						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R2203484							
WG1295281-3	CRM	NRC MESS-3						
Aluminum (Al)			87		%		70-130	13-JUN-11
Antimony (Sb)			97		%		70-130	13-JUN-11
Arsenic (As)			90		%		70-130	13-JUN-11
Barium (Ba)			96		%		70-130	13-JUN-11
Beryllium (Be)			76		%		70-130	13-JUN-11
Boron (B)			80		%		70-130	13-JUN-11
Cadmium (Cd)			87		%		70-130	13-JUN-11
Calcium (Ca)			105		%		70-130	13-JUN-11
Chromium (Cr)			92		%		70-130	13-JUN-11
Cobalt (Co)			102		%		70-130	13-JUN-11
Copper (Cu)			100		%		70-130	13-JUN-11
Iron (Fe)			111		%		70-130	13-JUN-11
Lead (Pb)			91		%		70-130	13-JUN-11
Magnesium (Mg)			110		%		70-130	13-JUN-11
Manganese (Mn)			118		%		70-130	13-JUN-11
Molybdenum (Mo)			97		%		70-130	13-JUN-11
Nickel (Ni)			100		%		70-130	13-JUN-11
Phosphorus (P)			98		%		70-130	13-JUN-11
Potassium (K)			81		%		70-130	13-JUN-11
Selenium (Se)			118		%		70-130	13-JUN-11
Silver (Ag)			98		%		70-130	13-JUN-11
Sodium (Na)			101		%		70-130	13-JUN-11
Strontium (Sr)			104		%		70-130	13-JUN-11
Tin (Sn)			89		%		70-130	13-JUN-11
Uranium (U)			88		%		70-130	13-JUN-11
Vanadium (V)			83		%		70-130	13-JUN-11
Zinc (Zn)			96		%		70-130	13-JUN-11
WG1295281-5	DUP	WG1295281-4						
Aluminum (Al)		3310	2750		mg/kg	18	40	13-JUN-11
Antimony (Sb)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	13-JUN-11
Arsenic (As)		0.67	0.65		mg/kg	2.9	30	13-JUN-11
Barium (Ba)		96.1	82.4		mg/kg	15	40	13-JUN-11
Beryllium (Be)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	13-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R2203484							
WG1295281-5	DUP	WG1295281-4						
Bismuth (Bi)		0.037	0.033		mg/kg	14	30	13-JUN-11
Boron (B)		6.2	5.2		mg/kg	16	30	13-JUN-11
Cadmium (Cd)		0.124	0.107		mg/kg	15	30	13-JUN-11
Calcium (Ca)		188000	179000		mg/kg	4.5	30	13-JUN-11
Cesium (Cs)		0.267	0.227		mg/kg	16	30	13-JUN-11
Chromium (Cr)		6.9	6.3		mg/kg	10	30	13-JUN-11
Cobalt (Co)		1.62	1.39		mg/kg	15	30	13-JUN-11
Copper (Cu)		5.3	4.1		mg/kg	26	30	13-JUN-11
Iron (Fe)		4220	3800		mg/kg	10	30	13-JUN-11
Lead (Pb)		2.95	2.65		mg/kg	11	40	13-JUN-11
Magnesium (Mg)		29100	26300		mg/kg	10	30	13-JUN-11
Manganese (Mn)		169	146		mg/kg	15	30	13-JUN-11
Molybdenum (Mo)		0.067	0.076		mg/kg	13	40	13-JUN-11
Nickel (Ni)		7.55	6.72		mg/kg	12	30	13-JUN-11
Phosphorus (P)		230	200		mg/kg	10	30	13-JUN-11
Potassium (K)		429	352		mg/kg	20	40	13-JUN-11
Rubidium (Rb)		5.03	4.17		mg/kg	19	30	13-JUN-11
Selenium (Se)		<0.50	<0.50	RPD-NA	mg/kg	N/A	30	13-JUN-11
Silver (Ag)		<0.10	<0.10	RPD-NA	mg/kg	N/A	40	13-JUN-11
Sodium (Na)		281	277		mg/kg	1.5	40	13-JUN-11
Strontium (Sr)		87.6	83.4		mg/kg	5.0	40	13-JUN-11
Tellurium (Te)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	13-JUN-11
Thallium (Tl)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	13-JUN-11
Tin (Sn)		<5.0	<5.0	RPD-NA	mg/kg	N/A	40	13-JUN-11
Titanium (Ti)		154	132		mg/kg	16	40	13-JUN-11
Tungsten (W)		<0.050	<0.050	RPD-NA	mg/kg	N/A	30	13-JUN-11
Uranium (U)		0.281	0.248		mg/kg	13	30	13-JUN-11
Vanadium (V)		5.81	5.03		mg/kg	14	30	13-JUN-11
Zinc (Zn)		18	15		mg/kg	17	30	13-JUN-11
Zirconium (Zr)		0.36	0.45		mg/kg	22	30	13-JUN-11
WG1295281-7	DUP	WG1295281-6						
Aluminum (Al)		4630	4670		mg/kg	0.80	40	13-JUN-11
Antimony (Sb)		0.12	0.11		mg/kg	9.9	30	13-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R2203484							
WG1295281-7	DUP	WG1295281-6						
Arsenic (As)		1.72	1.73		mg/kg	0.68	30	13-JUN-11
Barium (Ba)		120	134		mg/kg	11	40	13-JUN-11
Beryllium (Be)		0.19	0.20		mg/kg	7.6	30	13-JUN-11
Bismuth (Bi)		0.074	0.084		mg/kg	13	30	13-JUN-11
Boron (B)		8.9	10.1		mg/kg	13	30	13-JUN-11
Cadmium (Cd)		0.308	0.340		mg/kg	9.7	30	13-JUN-11
Calcium (Ca)		158000	176000		mg/kg	11	30	13-JUN-11
Cesium (Cs)		0.472	0.483		mg/kg	2.4	30	13-JUN-11
Chromium (Cr)		11.1	11.4		mg/kg	2.5	30	13-JUN-11
Cobalt (Co)		3.01	3.12		mg/kg	3.4	30	13-JUN-11
Copper (Cu)		11.3	11.1		mg/kg	1.9	30	13-JUN-11
Iron (Fe)		6370	6440		mg/kg	1.0	30	13-JUN-11
Lead (Pb)		4.91	5.29		mg/kg	7.4	40	13-JUN-11
Magnesium (Mg)		23600	25500		mg/kg	7.4	30	13-JUN-11
Manganese (Mn)		180	193		mg/kg	7.2	30	13-JUN-11
Molybdenum (Mo)		0.199	0.176		mg/kg	12	40	13-JUN-11
Nickel (Ni)		14.4	15.6		mg/kg	7.6	30	13-JUN-11
Phosphorus (P)		400	410		mg/kg	3.5	30	13-JUN-11
Potassium (K)		688	689		mg/kg	0.15	40	13-JUN-11
Rubidium (Rb)		8.65	8.78		mg/kg	1.5	30	13-JUN-11
Selenium (Se)		1.01	1.10		mg/kg	7.8	30	13-JUN-11
Silver (Ag)		<0.10	<0.10	RPD-NA	mg/kg	N/A	40	13-JUN-11
Sodium (Na)		141	161		mg/kg	13	40	13-JUN-11
Strontium (Sr)		57.2	67.3		mg/kg	16	40	13-JUN-11
Tellurium (Te)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	13-JUN-11
Thallium (Tl)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	13-JUN-11
Tin (Sn)		<5.0	<5.0	RPD-NA	mg/kg	N/A	40	13-JUN-11
Titanium (Ti)		145	138		mg/kg	5.0	40	13-JUN-11
Tungsten (W)		<0.050	<0.050	RPD-NA	mg/kg	N/A	30	13-JUN-11
Uranium (U)		0.497	0.517		mg/kg	3.9	30	13-JUN-11
Vanadium (V)		8.24	8.40		mg/kg	1.9	30	13-JUN-11
Zinc (Zn)		35	36		mg/kg	3.0	30	13-JUN-11
Zirconium (Zr)		1.76	1.93		mg/kg			13-JUN-11



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R2203484							
WG1295281-7	DUP	WG1295281-6						
Zirconium (Zr)		1.76	1.93		mg/kg	9.2	30	13-JUN-11
WG1295281-1	MB							
Aluminum (Al)			<5.0		mg/kg		5	13-JUN-11
Antimony (Sb)			<0.10		mg/kg		0.1	13-JUN-11
Arsenic (As)			<0.10		mg/kg		0.1	13-JUN-11
Barium (Ba)			<0.50		mg/kg		0.5	13-JUN-11
Beryllium (Be)			<0.10		mg/kg		0.1	13-JUN-11
Bismuth (Bi)			<0.020		mg/kg		0.02	13-JUN-11
Boron (B)			<1.0		mg/kg		1	13-JUN-11
Cadmium (Cd)			<0.020		mg/kg		0.02	13-JUN-11
Calcium (Ca)			<100		mg/kg		100	13-JUN-11
Cesium (Cs)			<0.020		mg/kg		0.02	13-JUN-11
Chromium (Cr)			<1.0		mg/kg		1	13-JUN-11
Cobalt (Co)			<0.020		mg/kg		0.02	13-JUN-11
Copper (Cu)			<1.0		mg/kg		1	13-JUN-11
Iron (Fe)			<25		mg/kg		25	13-JUN-11
Lead (Pb)			<0.20		mg/kg		0.2	13-JUN-11
Magnesium (Mg)			<10		mg/kg		10	13-JUN-11
Manganese (Mn)			<0.50		mg/kg		0.5	13-JUN-11
Molybdenum (Mo)			<0.020		mg/kg		0.02	13-JUN-11
Nickel (Ni)			<0.50		mg/kg		0.5	13-JUN-11
Phosphorus (P)			<100		mg/kg		100	13-JUN-11
Potassium (K)			<25		mg/kg		25	13-JUN-11
Rubidium (Rb)			<0.020		mg/kg		0.02	13-JUN-11
Selenium (Se)			<0.50		mg/kg		0.5	13-JUN-11
Silver (Ag)			<0.10		mg/kg		0.1	13-JUN-11
Sodium (Na)			<10		mg/kg		10	13-JUN-11
Strontium (Sr)			<0.10		mg/kg		0.1	13-JUN-11
Tellurium (Te)			<0.10		mg/kg		0.1	13-JUN-11
Thallium (Tl)			<0.10		mg/kg		0.1	13-JUN-11
Tin (Sn)			<5.0		mg/kg		5	13-JUN-11
Titanium (Ti)			<0.50		mg/kg		0.5	13-JUN-11
Tungsten (W)			<0.050		mg/kg		0.05	13-JUN-11
Uranium (U)			<0.020		mg/kg		0.02	13-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R2203484							
WG1295281-1	MB							
Vanadium (V)			<0.50		mg/kg		0.5	13-JUN-11
Zinc (Zn)			<10		mg/kg		10	13-JUN-11
Zirconium (Zr)			<0.10		mg/kg		0.1	13-JUN-11
Batch	R2204136							
WG1296037-2	CRM	NRC PACS-2						
Aluminum (Al)			105		%		70-130	14-JUN-11
Antimony (Sb)			117		%		70-130	14-JUN-11
Arsenic (As)			92		%		70-130	14-JUN-11
Barium (Ba)			98		%		70-130	14-JUN-11
Beryllium (Be)			82		%		70-130	14-JUN-11
Boron (B)			117		%		70-130	14-JUN-11
Cadmium (Cd)			99		%		70-130	14-JUN-11
Calcium (Ca)			101		%		70-130	14-JUN-11
Chromium (Cr)			101		%		70-130	14-JUN-11
Cobalt (Co)			99		%		70-130	14-JUN-11
Copper (Cu)			104		%		70-130	14-JUN-11
Iron (Fe)			106		%		70-130	14-JUN-11
Lead (Pb)			94		%		70-130	14-JUN-11
Magnesium (Mg)			106		%		70-130	14-JUN-11
Manganese (Mn)			99		%		70-130	14-JUN-11
Molybdenum (Mo)			105		%		70-130	14-JUN-11
Nickel (Ni)			95		%		70-130	14-JUN-11
Phosphorus (P)			97		%		70-130	14-JUN-11
Potassium (K)			93		%		70-130	14-JUN-11
Selenium (Se)			126		%		70-130	14-JUN-11
Silver (Ag)			104		%		70-130	14-JUN-11
Sodium (Na)			105		%		70-130	14-JUN-11
Strontium (Sr)			98		%		70-130	14-JUN-11
Thallium (Tl)			97		%		70-130	14-JUN-11
Tin (Sn)			98		%		70-130	14-JUN-11
Titanium (Ti)			116		%		70-130	14-JUN-11
Uranium (U)			96		%		70-130	14-JUN-11
Vanadium (V)			104		%		70-130	14-JUN-11
Zinc (Zn)			106		%		70-130	14-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R2204136							
WG1296037-3	CRM	NRC MESS-3						
Aluminum (Al)			87		%		70-130	14-JUN-11
Antimony (Sb)			109		%		70-130	14-JUN-11
Arsenic (As)			90		%		70-130	14-JUN-11
Barium (Ba)			100		%		70-130	14-JUN-11
Beryllium (Be)			88		%		70-130	14-JUN-11
Boron (B)			83		%		70-130	14-JUN-11
Cadmium (Cd)			89		%		70-130	14-JUN-11
Calcium (Ca)			111		%		70-130	14-JUN-11
Chromium (Cr)			96		%		70-130	14-JUN-11
Cobalt (Co)			108		%		70-130	14-JUN-11
Copper (Cu)			105		%		70-130	14-JUN-11
Iron (Fe)			114		%		70-130	14-JUN-11
Lead (Pb)			97		%		70-130	14-JUN-11
Magnesium (Mg)			112		%		70-130	14-JUN-11
Manganese (Mn)			114		%		70-130	14-JUN-11
Molybdenum (Mo)			103		%		70-130	14-JUN-11
Nickel (Ni)			106		%		70-130	14-JUN-11
Phosphorus (P)			97		%		70-130	14-JUN-11
Potassium (K)			80		%		70-130	14-JUN-11
Selenium (Se)			116		%		70-130	14-JUN-11
Silver (Ag)			108		%		70-130	14-JUN-11
Sodium (Na)			119		%		70-130	14-JUN-11
Strontium (Sr)			98		%		70-130	14-JUN-11
Tin (Sn)			84		%		70-130	14-JUN-11
Uranium (U)			96		%		70-130	14-JUN-11
Vanadium (V)			86		%		70-130	14-JUN-11
Zinc (Zn)			97		%		70-130	14-JUN-11
WG1296037-5	DUP	WG1296037-4						
Aluminum (Al)		25200	29500		mg/kg	16	40	14-JUN-11
Antimony (Sb)		1.07	1.36		mg/kg	25	30	14-JUN-11
Arsenic (As)		12.8	14.5		mg/kg	13	30	14-JUN-11
Barium (Ba)		137	150		mg/kg	9.6	40	14-JUN-11
Beryllium (Be)		1.07	1.24		mg/kg	15	30	14-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R2204136							
WG1296037-5	DUP	WG1296037-4						
Bismuth (Bi)		0.280	0.314		mg/kg	12	30	14-JUN-11
Boron (B)		23.1	29.9		mg/kg	26	30	14-JUN-11
Cadmium (Cd)		0.480	0.567		mg/kg	17	30	14-JUN-11
Calcium (Ca)		7990	8160		mg/kg	2.1	30	14-JUN-11
Cesium (Cs)		2.89	3.08		mg/kg	6.5	30	14-JUN-11
Chromium (Cr)		68.7	71.3		mg/kg	3.7	30	14-JUN-11
Cobalt (Co)		16.8	18.3		mg/kg	8.4	30	14-JUN-11
Copper (Cu)		36.8	41.1		mg/kg	11	30	14-JUN-11
Iron (Fe)		35400	43000		mg/kg	19	30	14-JUN-11
Lead (Pb)		15.9	17.6		mg/kg	10	40	14-JUN-11
Magnesium (Mg)		13700	12800		mg/kg	6.7	30	14-JUN-11
Manganese (Mn)		695	740		mg/kg	6.3	30	14-JUN-11
Molybdenum (Mo)		0.381	0.408		mg/kg	6.7	40	14-JUN-11
Nickel (Ni)		41.9	44.3		mg/kg	5.7	30	14-JUN-11
Phosphorus (P)		850	880		mg/kg	2.8	30	14-JUN-11
Potassium (K)		5880	5790		mg/kg	1.6	40	14-JUN-11
Rubidium (Rb)		60.6	63.0		mg/kg	3.9	30	14-JUN-11
Selenium (Se)		0.93	1.12		mg/kg	18	30	14-JUN-11
Silver (Ag)		0.19	0.21		mg/kg	7.2	40	14-JUN-11
Sodium (Na)		385	331		mg/kg	15	40	14-JUN-11
Strontium (Sr)		33.8	35.1		mg/kg	3.7	40	14-JUN-11
Tellurium (Te)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	14-JUN-11
Thallium (Tl)		0.35	0.38		mg/kg	7.7	30	14-JUN-11
Tin (Sn)		<5.0	<5.0	RPD-NA	mg/kg	N/A	40	14-JUN-11
Titanium (Ti)		1170	1320		mg/kg	12	40	14-JUN-11
Tungsten (W)		0.123	0.153		mg/kg	21	30	14-JUN-11
Uranium (U)		1.58	1.67		mg/kg	5.2	30	14-JUN-11
Vanadium (V)		66.3	68.4		mg/kg	3.1	30	14-JUN-11
Zinc (Zn)		209	245		mg/kg	16	30	14-JUN-11
Zirconium (Zr)		17.2	18.4		mg/kg	6.9	30	14-JUN-11
WG1296037-7	DUP	WG1296037-6						
Aluminum (Al)		27200	27700		mg/kg	1.9	40	14-JUN-11
Antimony (Sb)		1.55	1.51		mg/kg	2.0	30	14-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R2204136							
WG1296037-7	DUP	WG1296037-6						
Arsenic (As)		13.6	13.7		mg/kg	1.2	30	14-JUN-11
Barium (Ba)		143	142		mg/kg	0.74	40	14-JUN-11
Bismuth (Bi)		0.288	0.299		mg/kg	4.0	30	14-JUN-11
Boron (B)		23.8	27.1		mg/kg	13	30	14-JUN-11
Cadmium (Cd)		0.607	0.620		mg/kg	2.2	30	14-JUN-11
Calcium (Ca)		8050	7440		mg/kg	7.9	30	14-JUN-11
Cesium (Cs)		2.93	2.85		mg/kg	2.8	30	14-JUN-11
Chromium (Cr)		69.4	65.8		mg/kg	5.4	30	14-JUN-11
Cobalt (Co)		18.0	17.2		mg/kg	4.2	30	14-JUN-11
Copper (Cu)		40.5	40.8		mg/kg	0.62	30	14-JUN-11
Iron (Fe)		39400	41500		mg/kg	5.1	30	14-JUN-11
Lead (Pb)		16.9	16.8		mg/kg	0.71	40	14-JUN-11
Magnesium (Mg)		13700	12000		mg/kg	13	30	14-JUN-11
Manganese (Mn)		681	655		mg/kg	3.8	30	14-JUN-11
Molybdenum (Mo)		0.377	0.416		mg/kg	9.9	40	14-JUN-11
Nickel (Ni)		42.8	41.8		mg/kg	2.4	30	14-JUN-11
Phosphorus (P)		880	850		mg/kg	3.6	30	14-JUN-11
Potassium (K)		5910	5350		mg/kg	10	40	14-JUN-11
Rubidium (Rb)		60.6	58.4		mg/kg	3.7	30	14-JUN-11
Selenium (Se)		1.03	1.14		mg/kg	10	30	14-JUN-11
Silver (Ag)		0.20	0.21		mg/kg	6.0	40	14-JUN-11
Sodium (Na)		391	368		mg/kg	6.1	40	14-JUN-11
Strontium (Sr)		33.7	32.9		mg/kg	2.6	40	14-JUN-11
Tellurium (Te)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	14-JUN-11
Thallium (Tl)		0.37	0.36		mg/kg	2.0	30	14-JUN-11
Tin (Sn)		<5.0	<5.0	RPD-NA	mg/kg	N/A	40	14-JUN-11
Titanium (Ti)		1230	1220		mg/kg	1.4	40	14-JUN-11
Tungsten (W)		0.135	0.148		mg/kg	9.0	30	14-JUN-11
Uranium (U)		1.60	1.53		mg/kg	4.6	30	14-JUN-11
Vanadium (V)		67.5	63.1		mg/kg	6.7	30	14-JUN-11
Zinc (Zn)		255	255		mg/kg	0.20	30	14-JUN-11
Zirconium (Zr)		17.9	18.2		mg/kg	1.7	30	14-JUN-11
WG1296037-1	MB							



Quality Control Report

Workorder: L1014713

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP	Soil							
Batch	R2204136							
WG1296037-1	MB							
Aluminum (Al)			<5.0		mg/kg		5	14-JUN-11
Antimony (Sb)			<0.10		mg/kg		0.1	14-JUN-11
Arsenic (As)			<0.10		mg/kg		0.1	14-JUN-11
Barium (Ba)			<0.50		mg/kg		0.5	14-JUN-11
Beryllium (Be)			<0.10		mg/kg		0.1	14-JUN-11
Bismuth (Bi)			<0.020		mg/kg		0.02	14-JUN-11
Boron (B)			<1.0		mg/kg		1	14-JUN-11
Cadmium (Cd)			<0.020		mg/kg		0.02	14-JUN-11
Calcium (Ca)			<100		mg/kg		100	14-JUN-11
Cesium (Cs)			<0.020		mg/kg		0.02	14-JUN-11
Chromium (Cr)			<1.0		mg/kg		1	14-JUN-11
Cobalt (Co)			<0.020		mg/kg		0.02	14-JUN-11
Copper (Cu)			<1.0		mg/kg		1	14-JUN-11
Iron (Fe)			<25		mg/kg		25	14-JUN-11
Lead (Pb)			<0.20		mg/kg		0.2	14-JUN-11
Magnesium (Mg)			<10		mg/kg		10	14-JUN-11
Manganese (Mn)			<0.50		mg/kg		0.5	14-JUN-11
Molybdenum (Mo)			<0.020		mg/kg		0.02	14-JUN-11
Nickel (Ni)			<0.50		mg/kg		0.5	14-JUN-11
Phosphorus (P)			<100		mg/kg		100	14-JUN-11
Potassium (K)			<25		mg/kg		25	14-JUN-11
Rubidium (Rb)			<0.020		mg/kg		0.02	14-JUN-11
Selenium (Se)			<0.50		mg/kg		0.5	14-JUN-11
Silver (Ag)			<0.10		mg/kg		0.1	14-JUN-11
Sodium (Na)			<10		mg/kg		10	14-JUN-11
Strontium (Sr)			<0.10		mg/kg		0.1	14-JUN-11
Tellurium (Te)			<0.10		mg/kg		0.1	14-JUN-11
Thallium (Tl)			<0.10		mg/kg		0.1	14-JUN-11
Tin (Sn)			<5.0		mg/kg		5	14-JUN-11
Titanium (Ti)			<0.50		mg/kg		0.5	14-JUN-11
Tungsten (W)			<0.050		mg/kg		0.05	14-JUN-11
Uranium (U)			<0.020		mg/kg		0.02	14-JUN-11
Vanadium (V)			<0.50		mg/kg		0.5	14-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R2204136							
WG1296037-1	MB							
Zinc (Zn)			<10		mg/kg		10	14-JUN-11
Zirconium (Zr)			<0.10		mg/kg		0.1	14-JUN-11
Batch	R2204729							
WG1296682-2	CRM	NRC PACS-2						
Aluminum (Al)			113		%		70-130	15-JUN-11
Antimony (Sb)			123		%		70-130	15-JUN-11
Arsenic (As)			101		%		70-130	15-JUN-11
Barium (Ba)			110		%		70-130	15-JUN-11
Beryllium (Be)			78		%		70-130	15-JUN-11
Boron (B)			106		%		70-130	15-JUN-11
Cadmium (Cd)			104		%		70-130	15-JUN-11
Calcium (Ca)			109		%		70-130	15-JUN-11
Chromium (Cr)			109		%		70-130	15-JUN-11
Cobalt (Co)			102		%		70-130	15-JUN-11
Iron (Fe)			100		%		70-130	15-JUN-11
Lead (Pb)			97		%		70-130	15-JUN-11
Magnesium (Mg)			108		%		70-130	15-JUN-11
Manganese (Mn)			110		%		70-130	15-JUN-11
Molybdenum (Mo)			109		%		70-130	15-JUN-11
Nickel (Ni)			99		%		70-130	15-JUN-11
Phosphorus (P)			115		%		70-130	15-JUN-11
Potassium (K)			105		%		70-130	15-JUN-11
Silver (Ag)			105		%		70-130	15-JUN-11
Sodium (Na)			87		%		70-130	15-JUN-11
Strontium (Sr)			111		%		70-130	15-JUN-11
Thallium (Tl)			91		%		70-130	15-JUN-11
Tin (Sn)			104		%		70-130	15-JUN-11
Titanium (Ti)			128		%		70-130	15-JUN-11
Uranium (U)			84		%		70-130	15-JUN-11
Vanadium (V)			109		%		70-130	15-JUN-11
Zinc (Zn)			98		%		70-130	15-JUN-11
WG1296682-3	CRM	NRC MESS-3						
Aluminum (Al)			92		%		70-130	15-JUN-11
Antimony (Sb)			103		%		70-130	15-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
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 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R2204729							
WG1296682-3	CRM	NRC MESS-3						
Arsenic (As)			91		%		70-130	15-JUN-11
Barium (Ba)			112		%		70-130	15-JUN-11
Boron (B)			73		%		70-130	15-JUN-11
Cadmium (Cd)			88		%		70-130	15-JUN-11
Calcium (Ca)			111		%		70-130	15-JUN-11
Chromium (Cr)			98		%		70-130	15-JUN-11
Cobalt (Co)			104		%		70-130	15-JUN-11
Copper (Cu)			106		%		70-130	15-JUN-11
Iron (Fe)			110		%		70-130	15-JUN-11
Lead (Pb)			85		%		70-130	15-JUN-11
Magnesium (Mg)			112		%		70-130	15-JUN-11
Manganese (Mn)			125		%		70-130	15-JUN-11
Molybdenum (Mo)			104		%		70-130	15-JUN-11
Nickel (Ni)			101		%		70-130	15-JUN-11
Phosphorus (P)			103		%		70-130	15-JUN-11
Potassium (K)			85		%		70-130	15-JUN-11
Selenium (Se)			121		%		70-130	15-JUN-11
Silver (Ag)			103		%		70-130	15-JUN-11
Sodium (Na)			96		%		70-130	15-JUN-11
Strontium (Sr)			106		%		70-130	15-JUN-11
Tin (Sn)			90		%		70-130	15-JUN-11
Uranium (U)			83		%		70-130	15-JUN-11
Vanadium (V)			85		%		70-130	15-JUN-11
Zinc (Zn)			100		%		70-130	15-JUN-11
WG1296682-5	DUP	WG1296682-4						
Aluminum (Al)		4460	4280		mg/kg	4.2	40	15-JUN-11
Antimony (Sb)		0.30	0.33		mg/kg	9.4	30	15-JUN-11
Arsenic (As)		16.6	17.6		mg/kg	5.9	30	15-JUN-11
Barium (Ba)		97.6	104		mg/kg	6.5	40	15-JUN-11
Beryllium (Be)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	15-JUN-11
Bismuth (Bi)		0.160	0.161		mg/kg	0.61	30	15-JUN-11
Boron (B)		12.9	12.9		mg/kg	0.24	30	15-JUN-11
Cadmium (Cd)		0.723	0.758		mg/kg	4.7	30	15-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP		Soil						
Batch	R2204729							
WG1296682-5	DUP	WG1296682-4						
Calcium (Ca)		10800	10100		mg/kg	6.8	30	15-JUN-11
Cesium (Cs)		0.401	0.422		mg/kg	5.3	30	15-JUN-11
Chromium (Cr)		9.4	10.7		mg/kg	12	30	15-JUN-11
Cobalt (Co)		3.63	3.97		mg/kg	9.0	30	15-JUN-11
Copper (Cu)		16.1	17.5		mg/kg	8.1	30	15-JUN-11
Iron (Fe)		8780	9070		mg/kg	3.2	30	15-JUN-11
Lead (Pb)		17.4	17.7		mg/kg	2.0	40	15-JUN-11
Magnesium (Mg)		1930	2070		mg/kg	6.6	30	15-JUN-11
Manganese (Mn)		212	218		mg/kg	2.7	30	15-JUN-11
Molybdenum (Mo)		0.777	0.832		mg/kg	6.9	40	15-JUN-11
Nickel (Ni)		9.05	10.0		mg/kg	10	30	15-JUN-11
Phosphorus (P)		1060	1050		mg/kg	1.7	30	15-JUN-11
Potassium (K)		751	747		mg/kg	0.62	40	15-JUN-11
Rubidium (Rb)		4.60	5.00		mg/kg	8.5	30	15-JUN-11
Selenium (Se)		1.42	1.29		mg/kg	9.3	30	15-JUN-11
Silver (Ag)		<0.10	<0.10	RPD-NA	mg/kg	N/A	40	15-JUN-11
Sodium (Na)		151	155		mg/kg	2.9	40	15-JUN-11
Strontium (Sr)		23.6	24.9		mg/kg	5.3	40	15-JUN-11
Tellurium (Te)		0.11	0.12		mg/kg	13	30	15-JUN-11
Thallium (Tl)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	15-JUN-11
Tin (Sn)		<5.0	<5.0	RPD-NA	mg/kg	N/A	40	15-JUN-11
Titanium (Ti)		112	124		mg/kg	11	40	15-JUN-11
Tungsten (W)		0.114	0.121		mg/kg	5.9	30	15-JUN-11
Uranium (U)		0.287	0.290		mg/kg	1.0	30	15-JUN-11
Vanadium (V)		10.9	12.1		mg/kg	11	30	15-JUN-11
Zinc (Zn)		100	106		mg/kg	5.8	30	15-JUN-11
Zirconium (Zr)		2.66	2.69		mg/kg	1.0	30	15-JUN-11
WG1296682-7	DUP	WG1296682-6						
Aluminum (Al)		37500	36600		mg/kg	2.4	40	15-JUN-11
Antimony (Sb)		0.88	0.99		mg/kg	11	30	15-JUN-11
Arsenic (As)		5.89	6.09		mg/kg	3.4	30	15-JUN-11
Barium (Ba)		160	165		mg/kg	3.3	40	15-JUN-11
Beryllium (Be)		1.09	1.05		mg/kg	3.8	30	15-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP								
	Soil							
Batch	R2204729							
WG1296682-7	DUP	WG1296682-6						
Bismuth (Bi)		0.257	0.263		mg/kg	2.3	30	15-JUN-11
Boron (B)		17.5	17.1		mg/kg	2.4	30	15-JUN-11
Cadmium (Cd)		0.120	0.127		mg/kg	5.5	30	15-JUN-11
Calcium (Ca)		37900	30900		mg/kg	20	30	15-JUN-11
Cesium (Cs)		3.03	3.09		mg/kg	1.9	30	15-JUN-11
Chromium (Cr)		74.6	77.6		mg/kg	4.0	30	15-JUN-11
Cobalt (Co)		18.2	19.8		mg/kg	8.3	30	15-JUN-11
Copper (Cu)		37.5	37.8		mg/kg	0.73	30	15-JUN-11
Iron (Fe)		42800	42800		mg/kg	0.12	30	15-JUN-11
Lead (Pb)		12.0	11.9		mg/kg	0.85	40	15-JUN-11
Magnesium (Mg)		20500	21000		mg/kg	2.1	30	15-JUN-11
Manganese (Mn)		712	736		mg/kg	3.3	30	15-JUN-11
Molybdenum (Mo)		0.289	0.330		mg/kg	13	40	15-JUN-11
Nickel (Ni)		46.8	47.6		mg/kg	1.7	30	15-JUN-11
Phosphorus (P)		660	640		mg/kg	2.9	30	15-JUN-11
Potassium (K)		7590	7730		mg/kg	1.8	40	15-JUN-11
Rubidium (Rb)		70.4	70.1		mg/kg	0.40	30	15-JUN-11
Selenium (Se)		0.52	<0.50	RPD-NA	mg/kg	N/A	30	15-JUN-11
Silver (Ag)		0.21	0.22		mg/kg	4.4	40	15-JUN-11
Sodium (Na)		618	649		mg/kg	4.9	40	15-JUN-11
Strontium (Sr)		51.5	49.4		mg/kg	4.3	40	15-JUN-11
Tellurium (Te)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	15-JUN-11
Thallium (Tl)		0.34	0.35		mg/kg	2.8	30	15-JUN-11
Tin (Sn)		<5.0	<5.0	RPD-NA	mg/kg	N/A	40	15-JUN-11
Titanium (Ti)		1600	1600		mg/kg	0.31	40	15-JUN-11
Tungsten (W)		0.106	0.136		mg/kg	24	30	15-JUN-11
Uranium (U)		1.11	1.05		mg/kg	5.9	30	15-JUN-11
Vanadium (V)		78.3	78.7		mg/kg	0.59	30	15-JUN-11
Zinc (Zn)		188	192		mg/kg	2.1	30	15-JUN-11
Zirconium (Zr)		37.6	37.8		mg/kg	0.77	30	15-JUN-11
WG1296682-1	MB							
Aluminum (Al)			<5.0		mg/kg		5	15-JUN-11
Antimony (Sb)			<0.10		mg/kg		0.1	15-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
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 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-MS-WP	Soil							
Batch	R2204729							
WG1296682-1	MB							
Arsenic (As)			<0.10		mg/kg		0.1	15-JUN-11
Barium (Ba)			<0.50		mg/kg		0.5	15-JUN-11
Beryllium (Be)			<0.10		mg/kg		0.1	15-JUN-11
Bismuth (Bi)			<0.020		mg/kg		0.02	15-JUN-11
Boron (B)			<1.0		mg/kg		1	15-JUN-11
Cadmium (Cd)			<0.020		mg/kg		0.02	15-JUN-11
Calcium (Ca)			<100		mg/kg		100	15-JUN-11
Cesium (Cs)			<0.020		mg/kg		0.02	15-JUN-11
Chromium (Cr)			<1.0		mg/kg		1	15-JUN-11
Cobalt (Co)			<0.020		mg/kg		0.02	15-JUN-11
Copper (Cu)			<1.0		mg/kg		1	15-JUN-11
Iron (Fe)			<25		mg/kg		25	15-JUN-11
Lead (Pb)			<0.20		mg/kg		0.2	15-JUN-11
Magnesium (Mg)			<10		mg/kg		10	15-JUN-11
Manganese (Mn)			<0.50		mg/kg		0.5	15-JUN-11
Molybdenum (Mo)			<0.020		mg/kg		0.02	15-JUN-11
Nickel (Ni)			<0.50		mg/kg		0.5	15-JUN-11
Phosphorus (P)			<100		mg/kg		100	15-JUN-11
Potassium (K)			<25		mg/kg		25	15-JUN-11
Rubidium (Rb)			<0.020		mg/kg		0.02	15-JUN-11
Selenium (Se)			<0.50		mg/kg		0.5	15-JUN-11
Silver (Ag)			<0.10		mg/kg		0.1	15-JUN-11
Sodium (Na)			<10		mg/kg		10	15-JUN-11
Strontium (Sr)			<0.10		mg/kg		0.1	15-JUN-11
Tellurium (Te)			<0.10		mg/kg		0.1	15-JUN-11
Thallium (Tl)			<0.10		mg/kg		0.1	15-JUN-11
Tin (Sn)			<5.0		mg/kg		5	15-JUN-11
Titanium (Ti)			<0.50		mg/kg		0.5	15-JUN-11
Tungsten (W)			<0.050		mg/kg		0.05	15-JUN-11
Uranium (U)			<0.020		mg/kg		0.02	15-JUN-11
Vanadium (V)			<0.50		mg/kg		0.5	15-JUN-11
Zinc (Zn)			<10		mg/kg		10	15-JUN-11
Zirconium (Zr)			<0.10		mg/kg		0.1	15-JUN-11



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Client: AECOM Canada Ltd. (Winnipeg)
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 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOIST-SK								
	Soil							
Batch	R2203726							
WG1294692-1	DUP	L1014713-3						
% Moisture		96.1	94.7		%	1.4	25	14-JUN-11
Batch	R2203727							
WG1294694-1	DUP	L1014713-30						
% Moisture		87.4	79.3		%	9.7	25	14-JUN-11
N-TOT-LECO-SK								
	Soil							
Batch	R2204456							
WG1294960-1	DUP	L1014713-33						
Total Nitrogen by LECO		0.999	1.02	J	%	0.020	0.05	14-JUN-11
WG1294960-2	IRM	08-109_SOIL						
Total Nitrogen by LECO			0.109		%		0.085-0.135	14-JUN-11
WG1294960-3	MB							
Total Nitrogen by LECO			<0.020		%		0.02	14-JUN-11
Batch	R2204463							
WG1294962-1	DUP	L1014713-50						
Total Nitrogen by LECO		0.661	0.654	J	%	0.006	0.05	14-JUN-11
WG1294962-2	IRM	08-109_SOIL						
Total Nitrogen by LECO			0.109		%		0.085-0.135	14-JUN-11
WG1294962-3	MB							
Total Nitrogen by LECO			<0.020		%		0.02	14-JUN-11
Batch	R2204474							
WG1294958-1	DUP	L1014713-10						
Total Nitrogen by LECO		1.97	1.98	J	%	0.013	0.05	15-JUN-11
WG1294958-2	IRM	08-109_SOIL						
Total Nitrogen by LECO			0.110		%		0.085-0.135	15-JUN-11
WG1294958-3	MB							
Total Nitrogen by LECO			<0.020		%		0.02	15-JUN-11
Batch	R2204697							
WG1294964-1	DUP	L1014713-74						
Total Nitrogen by LECO		2.70	2.69	J	%	0.016	0.05	15-JUN-11
WG1294964-2	IRM	08-109_SOIL						
Total Nitrogen by LECO			0.110		%		0.085-0.135	15-JUN-11
WG1294964-3	MB							
Total Nitrogen by LECO			<0.020		%		0.02	15-JUN-11

P-SALM-ICP-SK **Soil**



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 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-SALM-ICP-SK								
	Soil							
Batch	R2204534							
WG1294867-2 CRM		SS-1_SOIL						
Phosphorus, Total			1150		mg/kg		750-1530	15-JUN-11
WG1294867-4 DUP		L1014713-20						
Phosphorus, Total		733	738		mg/kg	0.61	30	15-JUN-11
WG1294867-5 DUP		L1014713-37						
Phosphorus, Total		871	886		mg/kg	1.7	30	15-JUN-11
WG1294867-1 MB								
Phosphorus, Total			<50		mg/kg		100	15-JUN-11
Batch	R2205480							
WG1294876-2 CRM		SS-1_SOIL						
Phosphorus, Total			1200		mg/kg		750-1530	16-JUN-11
WG1294876-3 DUP		L1014713-55						
Phosphorus, Total		879	918		mg/kg	4.4	30	16-JUN-11
WG1294876-4 DUP		L1014713-78						
Phosphorus, Total		605	616		mg/kg	1.8	30	16-JUN-11
WG1294876-1 MB								
Phosphorus, Total			<50		mg/kg		100	16-JUN-11
PSA-3-SK								
	Soil							
Batch	R2205676							
WG1294935-1 DUP		L1014713-19						
% Sand (2.0mm - 0.05mm)		35.3	30.6	J	%	4.73	10	17-JUN-11
% Silt (0.05mm - 2um)		24.4	24.7	J	%	0.33	10	17-JUN-11
% Clay (<2um)		40.3	44.7	J	%	4.41	10	17-JUN-11
WG1294935-2 IRM		FARM2009						
% Sand (2.0mm - 0.05mm)			49.9		%		45-55	17-JUN-11
% Silt (0.05mm - 2um)			33.8		%		29-39	17-JUN-11
% Clay (<2um)			16.3		%		10-20	17-JUN-11
Batch	R2205714							
WG1294937-2 IRM		FARM2009						
% Sand (2.0mm - 0.05mm)			49.2		%		45-55	17-JUN-11
% Silt (0.05mm - 2um)			33.7		%		29-39	17-JUN-11
% Clay (<2um)			17.1		%		10-20	17-JUN-11

Quality Control Report

Workorder: L1014713

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Moisture Content							
	1	20-MAY-11 11:30	14-JUN-11 00:00	14	25	days	EHTR
	2	20-MAY-11 11:30	14-JUN-11 00:00	14	25	days	EHTR
	3	20-MAY-11 11:30	14-JUN-11 00:00	14	25	days	EHTR
	4	20-MAY-11 12:00	14-JUN-11 00:00	14	25	days	EHTR
	5	20-MAY-11 12:00	14-JUN-11 00:00	14	25	days	EHTR
	6	20-MAY-11 12:00	14-JUN-11 00:00	14	25	days	EHTR
	7	20-MAY-11 12:30	14-JUN-11 00:00	14	24	days	EHTR
	8	20-MAY-11 12:30	14-JUN-11 00:00	14	24	days	EHTR
	9	20-MAY-11 12:30	14-JUN-11 00:00	14	24	days	EHTR
	10	20-MAY-11 17:00	14-JUN-11 00:00	14	24	days	EHTR
	11	20-MAY-11 17:00	14-JUN-11 00:00	14	24	days	EHTR
	12	20-MAY-11 17:00	14-JUN-11 00:00	14	24	days	EHTR
	13	21-MAY-11 11:45	14-JUN-11 00:00	14	24	days	EHTR
	14	21-MAY-11 11:45	14-JUN-11 00:00	14	24	days	EHTR
	15	21-MAY-11 11:45	14-JUN-11 00:00	14	24	days	EHTR
	16	21-MAY-11 15:30	14-JUN-11 00:00	14	23	days	EHTR
	17	21-MAY-11 15:30	14-JUN-11 00:00	14	23	days	EHTR
	18	21-MAY-11 15:30	14-JUN-11 00:00	14	23	days	EHTR
	19	21-MAY-11 16:30	14-JUN-11 00:00	14	23	days	EHTR
	20	21-MAY-11 16:30	14-JUN-11 00:00	14	23	days	EHTR
	21	21-MAY-11 16:30	14-JUN-11 00:00	14	23	days	EHTR
	22	22-MAY-11 13:00	14-JUN-11 00:00	14	22	days	EHTR
	23	22-MAY-11 13:00	14-JUN-11 00:00	14	22	days	EHTR
	24	22-MAY-11 13:00	14-JUN-11 00:00	14	22	days	EHTR
	25	23-MAY-11 10:15	14-JUN-11 00:00	14	22	days	EHTR
	26	23-MAY-11 10:15	14-JUN-11 00:00	14	22	days	EHTR
	27	23-MAY-11 10:15	14-JUN-11 00:00	14	22	days	EHTR
	28	23-MAY-11 11:20	14-JUN-11 00:00	14	22	days	EHTR
	29	23-MAY-11 11:20	14-JUN-11 00:00	14	22	days	EHTR
	30	23-MAY-11 11:20	14-JUN-11 00:00	14	22	days	EHTR
	31	23-MAY-11 12:00	14-JUN-11 00:00	14	22	days	EHTR
	32	23-MAY-11 12:00	14-JUN-11 00:00	14	22	days	EHTR
	33	23-MAY-11 12:00	14-JUN-11 00:00	14	22	days	EHTR
	34	23-MAY-11 14:00	14-JUN-11 00:00	14	21	days	EHTR
	35	23-MAY-11 14:00	14-JUN-11 00:00	14	21	days	EHTR
	36	23-MAY-11 14:00	14-JUN-11 00:00	14	21	days	EHTR
	37	23-MAY-11 12:30	14-JUN-11 00:00	14	21	days	EHTR
	38	23-MAY-11 12:30	14-JUN-11 00:00	14	21	days	EHTR
	39	23-MAY-11 12:30	14-JUN-11 00:00	14	21	days	EHTR
	40	23-MAY-11 14:30	14-JUN-11 00:00	14	21	days	EHTR
	41	23-MAY-11 14:30	14-JUN-11 00:00	14	21	days	EHTR
	42	23-MAY-11 14:30	14-JUN-11 00:00	14	21	days	EHTR
	43	24-MAY-11 10:00	14-JUN-11 00:00	14	21	days	EHTR
	44	24-MAY-11 10:00	14-JUN-11 00:00	14	21	days	EHTR
	45	24-MAY-11 10:00	14-JUN-11 00:00	14	21	days	EHTR
	46	24-MAY-11 11:45	14-JUN-11 00:00	14	21	days	EHTR
	47	24-MAY-11 11:45	14-JUN-11 00:00	14	21	days	EHTR
	48	24-MAY-11 11:45	14-JUN-11 00:00	14	21	days	EHTR
	49	24-MAY-11 11:00	14-JUN-11 00:00	14	21	days	EHTR
	50	24-MAY-11 11:00	14-JUN-11 00:00	14	21	days	EHTR
	51	24-MAY-11 11:00	14-JUN-11 00:00	14	21	days	EHTR
	52	24-MAY-11 13:00	14-JUN-11 00:00	14	20	days	EHTR
	53	24-MAY-11 13:00	14-JUN-11 00:00	14	20	days	EHTR
	54	24-MAY-11 13:00	14-JUN-11 00:00	14	20	days	EHTR
	55	27-MAY-11 15:59	14-JUN-11 00:00	14	17	days	EHT
	56	27-MAY-11 16:03	14-JUN-11 00:00	14	17	days	EHT

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Moisture Content							
	57	27-MAY-11 16:08	14-JUN-11 00:00	14	17	days	EHT
	58	27-MAY-11 15:28	14-JUN-11 00:00	14	17	days	EHT
	59	27-MAY-11 15:32	14-JUN-11 00:00	14	17	days	EHT
	60	27-MAY-11 15:36	14-JUN-11 00:00	14	17	days	EHT
	61	27-MAY-11 14:54	14-JUN-11 00:00	14	17	days	EHT
	62	27-MAY-11 14:59	14-JUN-11 00:00	14	17	days	EHT
	63	27-MAY-11 15:03	14-JUN-11 00:00	14	17	days	EHT
	64	29-MAY-11 15:55	14-JUN-11 00:00	14	15	days	EHT
	65	29-MAY-11 16:00	14-JUN-11 00:00	14	15	days	EHT
	66	29-MAY-11 16:04	14-JUN-11 00:00	14	15	days	EHT
	67	29-MAY-11 10:42	14-JUN-11 00:00	14	16	days	EHT
	68	29-MAY-11 10:50	14-JUN-11 00:00	14	16	days	EHT
	69	29-MAY-11 10:55	14-JUN-11 00:00	14	16	days	EHT
	70	28-MAY-11 14:43	14-JUN-11 00:00	14	16	days	EHT
	71	28-MAY-11 14:47	14-JUN-11 00:00	14	16	days	EHT
	72	28-MAY-11 14:55	14-JUN-11 00:00	14	16	days	EHT
	73	28-MAY-11 10:31	14-JUN-11 00:00	14	17	days	EHT
	74	28-MAY-11 10:40	14-JUN-11 00:00	14	17	days	EHT
	75	28-MAY-11 10:51	14-JUN-11 00:00	14	17	days	EHT
	76	30-MAY-11 10:17	14-JUN-11 00:00	14	15	days	EHT
	77	30-MAY-11 10:27	14-JUN-11 00:00	14	15	days	EHT
	78	30-MAY-11 10:36	14-JUN-11 00:00	14	15	days	EHT
Organic / Inorganic Carbon							
Inorganic and Organic Carbon							
	1	20-MAY-11 11:30	15-JUN-11 00:00	14	26	days	EHTR
	2	20-MAY-11 11:30	15-JUN-11 00:00	14	26	days	EHTR
	3	20-MAY-11 11:30	15-JUN-11 00:00	14	26	days	EHTR
	4	20-MAY-11 12:00	15-JUN-11 00:00	14	26	days	EHTR
	5	20-MAY-11 12:00	15-JUN-11 00:00	14	26	days	EHTR
	6	20-MAY-11 12:00	15-JUN-11 00:00	14	26	days	EHTR
	7	20-MAY-11 12:30	15-JUN-11 00:00	14	25	days	EHTR
	8	20-MAY-11 12:30	15-JUN-11 00:00	14	25	days	EHTR
	9	20-MAY-11 12:30	15-JUN-11 00:00	14	25	days	EHTR
	10	20-MAY-11 17:00	15-JUN-11 00:00	14	25	days	EHTR
	11	20-MAY-11 17:00	15-JUN-11 00:00	14	25	days	EHTR
	12	20-MAY-11 17:00	15-JUN-11 00:00	14	25	days	EHTR
	13	21-MAY-11 11:45	15-JUN-11 00:00	14	25	days	EHTR
	14	21-MAY-11 11:45	15-JUN-11 00:00	14	25	days	EHTR
	15	21-MAY-11 11:45	15-JUN-11 00:00	14	25	days	EHTR
	16	21-MAY-11 15:30	15-JUN-11 00:00	14	24	days	EHTR
	17	21-MAY-11 15:30	15-JUN-11 00:00	14	24	days	EHTR
	18	21-MAY-11 15:30	15-JUN-11 00:00	14	24	days	EHTR
	19	21-MAY-11 16:30	15-JUN-11 00:00	14	24	days	EHTR
	20	21-MAY-11 16:30	15-JUN-11 00:00	14	24	days	EHTR
	21	21-MAY-11 16:30	15-JUN-11 00:00	14	24	days	EHTR
	22	22-MAY-11 13:00	15-JUN-11 00:00	14	23	days	EHTR
	23	22-MAY-11 13:00	15-JUN-11 00:00	14	23	days	EHTR
	24	22-MAY-11 13:00	15-JUN-11 00:00	14	23	days	EHTR
	25	23-MAY-11 10:15	15-JUN-11 00:00	14	23	days	EHTR
	26	23-MAY-11 10:15	15-JUN-11 00:00	14	23	days	EHTR
	27	23-MAY-11 10:15	15-JUN-11 00:00	14	23	days	EHTR
	28	23-MAY-11 11:20	15-JUN-11 00:00	14	23	days	EHTR
	29	23-MAY-11 11:20	15-JUN-11 00:00	14	23	days	EHTR
	30	23-MAY-11 11:20	15-JUN-11 00:00	14	23	days	EHTR
	31	23-MAY-11 12:00	15-JUN-11 00:00	14	23	days	EHTR

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Organic / Inorganic Carbon							
Inorganic and Organic Carbon							
	32	23-MAY-11 12:00	15-JUN-11 00:00	14	23	days	EHTR
	33	23-MAY-11 12:00	15-JUN-11 00:00	14	23	days	EHTR
	34	23-MAY-11 14:00	15-JUN-11 00:00	14	22	days	EHTR
	35	23-MAY-11 14:00	15-JUN-11 00:00	14	22	days	EHTR
	36	23-MAY-11 14:00	15-JUN-11 00:00	14	22	days	EHTR
	37	23-MAY-11 12:30	15-JUN-11 00:00	14	22	days	EHTR
	38	23-MAY-11 12:30	15-JUN-11 00:00	14	22	days	EHTR
	39	23-MAY-11 12:30	15-JUN-11 00:00	14	22	days	EHTR
	40	23-MAY-11 14:30	15-JUN-11 00:00	14	22	days	EHTR
	41	23-MAY-11 14:30	15-JUN-11 00:00	14	22	days	EHTR
	42	23-MAY-11 14:30	15-JUN-11 00:00	14	22	days	EHTR
	43	24-MAY-11 10:00	15-JUN-11 00:00	14	22	days	EHTR
	44	24-MAY-11 10:00	15-JUN-11 00:00	14	22	days	EHTR
	45	24-MAY-11 10:00	15-JUN-11 00:00	14	22	days	EHTR
	46	24-MAY-11 11:45	15-JUN-11 00:00	14	22	days	EHTR
	47	24-MAY-11 11:45	15-JUN-11 00:00	14	22	days	EHTR
	48	24-MAY-11 11:45	15-JUN-11 00:00	14	22	days	EHTR
	49	24-MAY-11 11:00	15-JUN-11 00:00	14	22	days	EHTR
	50	24-MAY-11 11:00	15-JUN-11 00:00	14	22	days	EHTR
	51	24-MAY-11 11:00	15-JUN-11 00:00	14	22	days	EHTR
	52	24-MAY-11 13:00	15-JUN-11 00:00	14	21	days	EHTR
	53	24-MAY-11 13:00	15-JUN-11 00:00	14	21	days	EHTR
	54	24-MAY-11 13:00	15-JUN-11 00:00	14	21	days	EHTR
	55	27-MAY-11 15:59	15-JUN-11 00:00	14	18	days	EHT
	56	27-MAY-11 16:03	15-JUN-11 00:00	14	18	days	EHT
	57	27-MAY-11 16:08	15-JUN-11 00:00	14	18	days	EHT
	58	27-MAY-11 15:28	15-JUN-11 00:00	14	18	days	EHT
	59	27-MAY-11 15:32	15-JUN-11 00:00	14	18	days	EHT
	60	27-MAY-11 15:36	15-JUN-11 00:00	14	18	days	EHT
	61	27-MAY-11 14:54	15-JUN-11 00:00	14	18	days	EHT
	62	27-MAY-11 14:59	15-JUN-11 00:00	14	18	days	EHT
	63	27-MAY-11 15:03	15-JUN-11 00:00	14	18	days	EHT
	64	29-MAY-11 15:55	15-JUN-11 00:00	14	16	days	EHT
	65	29-MAY-11 16:00	15-JUN-11 00:00	14	16	days	EHT
	66	29-MAY-11 16:04	15-JUN-11 00:00	14	16	days	EHT
	67	29-MAY-11 10:42	15-JUN-11 00:00	14	17	days	EHT
	68	29-MAY-11 10:50	15-JUN-11 00:00	14	17	days	EHT
	69	29-MAY-11 10:55	15-JUN-11 00:00	14	17	days	EHT
	70	28-MAY-11 14:43	15-JUN-11 00:00	14	17	days	EHT
	71	28-MAY-11 14:47	15-JUN-11 00:00	14	17	days	EHT
	72	28-MAY-11 14:55	15-JUN-11 00:00	14	17	days	EHT
	73	28-MAY-11 10:31	15-JUN-11 00:00	14	18	days	EHT
	74	28-MAY-11 10:40	15-JUN-11 00:00	14	18	days	EHT
	75	28-MAY-11 10:51	15-JUN-11 00:00	14	18	days	EHT
	76	30-MAY-11 10:17	15-JUN-11 00:00	14	16	days	EHT
	77	30-MAY-11 10:27	15-JUN-11 00:00	14	16	days	EHT
	78	30-MAY-11 10:36	15-JUN-11 00:00	14	16	days	EHT

Legend & Qualifier Definitions:

- EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
- EHTR: Exceeded ALS recommended hold time prior to sample receipt.
- EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
- EHT: Exceeded ALS recommended hold time prior to analysis.
- Rec. HT: ALS recommended hold time (see units).

Notes*:

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Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1014713 were received on 08-JUN-11 15:26.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



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

COC #

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Report To: ALS Emission
 Company: AECOM-W1.r.
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone: Fax:
 Invoice To: Same as Report? Yes No
 Hardcopy of Invoice with Report? Yes No
 Company: Contact: Address: Phone: Fax:
 Lab Work Order # (lab use only): Quote #: Q24534
 ALS Contact: PO / AFE: LSD: Job #: 60213483-300
 Client / Project Information: Job #: 60213483-300
 Email 1: cliff.samoiloff@aecom.com
 Email 2: Email 3: Fax: Digital Fax

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hr:mm)	Sample Type	Analysis Request						Number of Containers	
					C-TOT-ORG-SK	MOIST-SK	N-TOT-LECO-SK	P-SALM-ICP-SK	MET-200.2-MS-WP	HG-200.2-CVA-FWP		PREP-DRY/GRIND
	UC1-01A	21MAY11	1145	Sediment	X	X	X	X	X	X	X	2
	UC1-01B	21MAY11	1145	Sediment	X	X	X	X	X	X	X	1
	UC1-01C	21MAY11	1145	Sediment	X	X	X	X	X	X	X	1
	GHC-01A	21MAY11	1530	↓	X	X	X	X	X	X	X	2
	GHC-01B	21MAY11	1530	↓	X	X	X	X	X	X	X	1
	GHC-01C	21MAY11	1530	↓	X	X	X	X	X	X	X	1
	THC-01A	21MAY11	1630	↓	X	X	X	X	X	X	X	2
	THC-01B	21MAY11	1630	↓	X	X	X	X	X	X	X	1
	THC-01C	21MAY11	1630	↓	X	X	X	X	X	X	X	1
	ANC-02A	22MAY11	1300	↓	X	X	X	X	X	X	X	2
	ANC-02B	22MAY11	1300	↓	X	X	X	X	X	X	X	1
	ANC-02C	22MAY11	1300	↓	X	X	X	X	X	X	X	1

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/IAB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: [Signature] Date (dd-mm-yy): 15/06/08 Time (hr-mm): 08:50 Temperature: 20.0 °C
 Received by: [Signature] Date: 15/06/08 Time: 08:50
 SHIPMENT RELEASE (client use) SHIPMENT RECEPTION (lab use only) SHIPMENT VERIFICATION (lab use only)
 Verified by: Date: Observations: Yes / No? If Yes add SIF
 GENF 18.01 Front



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

COC #

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Report To Company: AECOM -W172 Contact: Cliff Samoiloff Address: 99 Commerce Dr Phone: _____ Fax: _____ Invoice To Same as Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hardcopy of Invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No Company: _____ Contact: _____ Address: _____ Phone: _____ Fax: _____		at / Distribution <input type="checkbox"/> Other <input type="checkbox"/> Digital <input type="checkbox"/> Fax <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel Email 1: cliff.samoiloff@aecom.com Email 2: _____ Email 3: _____		Service Requested (Rush for routine analysis subject to availability) <input checked="" type="radio"/> Regular (Standard Turnaround Times - Business Days) <input type="radio"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT	
Client / Project Information Job #: 60213483-300 PO / AFE: _____ LSD: _____ Quote #: Q24534 ALS Contact: _____ Lab Work Order # (lab use only): _____		Analysis Request Please indicate below Filtered, Preserved or both (F, P, F/P) C-TOT-ORG-SK N-TOT-LECO-SK P-SALM-ICP-SK MET-200.2-MS-WP HG-200.2-CVAF-WP PREP-DRY/GRIND PSA-1 (Or 3 if 1 not possible)		Number of Containers 2 1 1 2 1 1 2 1 1	
Sample Identification (This description will appear on the report) ANB 01A ANB 01B ANB 01C ANB 02A ANB 02B ANB 02C ANB 03A ANB 03B ANB 03C ANB 04A ANB 04B ANB 04C		Sampler: Date (dd-mm-yy) 23 MAY 10 Time (hr:mm) 1015 1120 1200 1400		Sample Type Sediment Sediment Sediment	
Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab.

Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: _____	Date (dd-mm-yy): 08-5-10	Time (hh-mm): 1526	Temperature: 20.0 °C	Verified by: _____	Date: _____	Time: _____	Observations: Yes / No ? If Yes add SIF
SHIPMENT RELEASE (client use)				SHIPMENT VERIFICATION (lab use only)			



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

COC #

Page 4 of 7



Report To
 Company: AECOM -W172
 Contact: Cliff Samoloff
 Address: 99 Commerce Dr
 Phone: _____ Fax: _____
 Email 1: cliff.samoloff@aecom.com
 Email 2: _____
 Email 3: _____

Format / Distribution
 Standard Other PDF Excel Digital Fax

Service Requested (Rush for routine analysis subject to availability)
 Regular (Standard Turnaround Times - Business Days)
 Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
 Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
 Same Day or Weekend Emergency - Contact ALS to Confirm TAT

Sample #	Sample Identification (This description will appear on the report)	Sampler:			Number of Containers
		Date (dd-mm-yy)	Time (hh:mm)	Sample Type	
		Quote #: Q24534			
		ALS Contact:			
		Lab Work Order #			
		PO / AFE:			
		LSD:			
		Client / Project Information			
		Job #: 60213483-300			
		Invoice To Same as Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Hardcopy of Invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Company:			
		Contact:			
		Address:			
		Phone:			
		Fax:			
		Analysis Request			
		Please indicate below Filtered, Preserved or both (F, P, F/P)			
		C-TOT-ORG-SK	X	X	2
		MOIST-SK	X	X	1
		N-TOT-LECO-SK	X	X	1
		P-SALM-ICP-SK	X	X	2
		MET-200.2-MS-WP	X	X	1
		HG-200.2-CVAF-WP	X	X	1
		PREP-DRY/GRIND	X	X	2
		PSA-1 (Or 3 if 1 not possible)	X	X	1

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

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Released by: _____ Date (dd-mm-yy): 08-3-2008 Time (hh-mm): 15:26 Temperature: 20.0 °C

Received by: _____ Date: _____ Time: _____

SHIPMENT RECEPTION (lab use only) SHIPMENT VERIFICATION (lab use only)

Observations: Yes / No ? If Yes add SIF



ALS Environment
 Report To
 Company: AECOM -W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone:
 Fax:

Service Requested (Rush for routine analysis subject to availability)
 Regular (Standard Turnaround Times - Business Days)
 Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
 Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
 Same Day or Weekend Emergency - Contact ALS to Confirm TAT

Distribution
 Other
 PDF
 Excel
 Digital
 Fax
 Email 1: cliff.samoiloff@aecom.com
 Email 2:
 Email 3:

Analysis Request
 Please indicate below Filtered, Preserved or both (F, P, F/P)
 C-TOT-ORG-SK
 N-TOT-LECO-SK
 P-SALM-ICP-SK
 MET-200.2-MS-WP
 HG-200.2-CVAF-WP
 PREP-DRY/GRIND
 PSA-1 (Or 3 if 1 not possible)

Client / Project Information
 Job #: 60213483-300
 PO / AFE:
 LSD:
 Quote #: Q24534
 ALS Contact:

Lab Work Order #
 (lab use only)
 Lab Work Order #
 (lab use only)
 Fax:

Sample #	Sample Identification (This description will appear on the report)	Sampler:		Date (dd-mm-yy)	Sample Type	Number of Containers							
		Time (hh:mm)				C-TOT-ORG-SK	MOIST-SK	N-TOT-LECO-SK	P-SALM-ICP-SK	MET-200.2-MS-WP	HG-200.2-CVAF-WP	PREP-DRY/GRIND	PSA-1 (Or 3 if 1 not possible)
	ANB 09A	1100		24 MAY 11	Sediment	X	X	X	X	X	X	X	2
	ANB 09B	1100			Sediment	X	X	X	X	X	X	X	1
	ANB 09C	1100			Sediment	X	X	X	X	X	X	X	1
	ANB 10A	1306				X	X	X	X	X	X	X	2
	ANB 10B	↓				X	X	X	X	X	X	X	1
	ANB 10C	↓				X	X	X	X	X	X	X	1
	THL-01A	1559		21 MAY 11		X	X	X	X	X	X	X	2
	THL-01B	1603				X	X	X	X	X	X	X	1
	THL-01C	1608				X	X	X	X	X	X	X	1
	THL-02A	1528				X	X	X	X	X	X	X	2
	THL-02B	1532				X	X	X	X	X	X	X	1
	THL-02C	1536				X	X	X	X	X	X	X	1

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

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SHIPMENT RELEASE (client use)
 Released by: Date (dd-mm-yy): 06-20-11 Time (hh-mm): 15:06 Temperature: 20 °C

SHIPMENT RECEPTION (lab use only)
 Received by: Date: 06-20-11 Time: 15:06

SHIPMENT VERIFICATION (lab use only)
 Verified by: _____ Date: _____ Time: _____

Observations:
 Yes / No ?
 If Yes add SIF

GENF 18.01 Front



ALS Environment
Report To
Company: AECOM-W172
Contact: Cliff Samoiloff
Address: 99 Commerce Dr
Phone: _____
Fax: _____

Service Requested (Rush for routine analysis subject to availability)
 Regular (Standard Turnaround Times - Business Days)
 Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
 Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
 Same Day or Weekend Emergency - Contact ALS to Confirm TAT

mat / Distribution
 Other
 PDF
 Excel
 Digital
 Fax
 Email 1: cliff_samoiloff@aecom.com
 Email 2:
 Email 3:
 Client / Project Information
 Job #: 60213483-300
 PO / AFE:
 LSD:
 Quote #: Q24534

Lab Work Order # _____
 ALS Contact: _____
 Date: _____
 Time: _____
 Sample Type: _____

Sample #	Sample Identification (This description will appear on the report)	Sampler:		Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Analysis Request						Number of Containers	
		ALS	Contact				MOIST-SK	N-TOT-LECO-SK	P-SALM-ICP-SK	MET-200.2-MS-WP	HG-200.2-CVAF-WP	PREP-DRY/GRIND		PSA-1 (Or 3 if 1 not possible)
	THL-03A			27MAY11	1454	Sediment	X	X	X	X	X	X	X	2
	THL-03B			↓	1459	Sediment	X	X	X	X	X	X	X	1
	THL-03C			↓	1503	Sediment	X	X	X	X	X	X	X	1
	ARL-01A			29MAY11	1555		X	X	X	X	X	X	X	2
	ARL-01B			↓	1600		X	X	X	X	X	X	X	1
	ARL-01C			↓	1604		X	X	X	X	X	X	X	1
	ULL-01A			↓	1042		X	X	X	X	X	X	X	2
	ULL-01B			↓	1050		X	X	X	X	X	X	X	1
	ULL-01C			↓	1055		X	X	X	X	X	X	X	1
	NTL-01A			28MAY11	1443		X	X	X	X	X	X	X	2
	NTL-01B			↓	1447		X	X	X	X	X	X	X	1
	NTL-01C			↓	1455		X	X	X	X	X	X	X	1

Special Instructions / Regulations with water or land use (CCME-Freshwater, Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

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SHIPPING/RECEPTION (lab use only) SHIPMENT/VERIFICATION (lab use only)

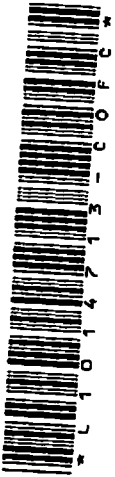
Released by: _____
 Date (dd-mm-yy): 08-30-11
 Time (hh-mm): 1506
 Temperature: 20°C
 Received by: _____
 Date: _____
 Time: _____
 Verified by: _____
 Date: _____
 Time: _____
 Observations: Yes / No ?
 If Yes add SIF



Chain of Custody / Analytical Request Form
 Canada Toll Free: 1 800 668 9878
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COC #

Page 7 of 7



Report To: **ALS Environment**

Company: AECOM-W172

Contact: Cliff Samoiloff

Address: 99 Commerce Dr

Phone: _____ Fax: _____

Invoice To Same as Report? Yes No

Hardcopy of Invoice with Report? Yes No

Company: _____

Contact: _____

Address: _____

Phone: _____ Fax: _____

Quote #: Q24534

ALS Contact: **Christine Herod**

Sampler: **SK, MH.**

Sample #	Lab Work Order # (lab use only)	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Analysis Request							Number of Containers
						C-TOT-ORG-SK	MOIST-SK	N-TOT-LECO-SK	P-SALM-ICP-SK	MET-200.2-MS-WP	HG-200.2-CVAF-WP	PREP-DRY/GRIND	
	6SL-01A		28 MAY 11	10:31	Sediment	X	X	X	X	X	X	X	2
	6SL-01B		↓	10:40	Sediment	X	X	X	X	X	X	X	1
	6SL-01C		↓	10:51	Sediment	X	X	X	X	X	X	X	1
	ANC-01A		30 MAY 11	10:17	↓	X	X	X	X	X	X	X	2
	ANC-01B		↓	10:27	↓	X	X	X	X	X	X	X	1
	ANC-01C		↓	10:36	↓	X	X	X	X	X	X	X	1

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/IAB Tier 1 - Natural, etc) / Hazardous Details

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Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: _____ Date (dd-mm-yy) _____ Time (hh-mm) _____

Received by: _____ Date: _____ Time: _____

Temperature: _____ °C

Verified by: _____ Date: _____

SHIPMENT/RECEPTION (lab use only)

SHIPMENT/VERIFICATION (lab use only)

Observations: Yes / No ?

If Yes add SIF



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 15-SEP-11
Report Date: 04-OCT-11 12:14 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1058637
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-300
C of C Numbers:
Legal Site Desc:

Robert S. Kitlar
Account Manager

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ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1058637-1 TED-01							
Sampled By: CLIENT on 13-SEP-11 @ 09:01							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	15.8		0.50	mg/L		15-SEP-11	R2254232
Fluoride							
Fluoride	<0.10		0.10	mg/L		15-SEP-11	R2254232
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		15-SEP-11	R2254232
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		15-SEP-11	R2254232
Sulfate							
Sulfate	<0.50		0.50	mg/L		15-SEP-11	R2254232
Miscellaneous Parameters							
Acidity (as CaCO3)	2.2		1.0	mg/L		15-SEP-11	R2254019
Ammonia as N	<0.050		0.050	mg/L		22-SEP-11	R2256002
Bromide (Br)	<0.10		0.10	mg/L		15-SEP-11	R2254232
BOD Carbonaceous	2.7		1.0	mg/L	15-SEP-11	20-SEP-11	R2254702
Colour, True	114		5.0	CU		15-SEP-11	R2252500
Dissolved Organic Carbon	30.3		1.0	mg/L		16-SEP-11	R2253680
Hardness (as CaCO3)	110		0.20	mg/L		26-SEP-11	
Hardness (as CaCO3)	119		0.30	mg/L		20-SEP-11	
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	28-SEP-11	28-SEP-11	R2261188
Nitrate and Nitrite as N	<0.071		0.071	mg/L		15-SEP-11	
Phosphorus (P)-Total	0.032		0.010	mg/L		16-SEP-11	R2253052
Silica, Reactive (as SiO2)	14.0		0.0050	mg/L		16-SEP-11	R2252970
Total Dissolved Solids	160		5.0	mg/L		22-SEP-11	R2256947
Total Kjeldahl Nitrogen	1.91		0.20	mg/L	15-SEP-11	19-SEP-11	R2253763
Total Organic Carbon	32.0		1.0	mg/L		16-SEP-11	R2253680
Total Suspended Solids	12.0		5.0	mg/L		22-SEP-11	R2256947
Turbidity	1.91		0.10	NTU		15-SEP-11	R2252540
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.147		0.0050	mg/L	19-SEP-11	19-SEP-11	R2254443
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Arsenic (As)-Total	0.00138		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Barium (Ba)-Total	0.0271		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Boron (B)-Total	<0.010		0.010	mg/L	19-SEP-11	19-SEP-11	R2254443
Cadmium (Cd)-Total	0.000010		0.000010	mg/L	19-SEP-11	19-SEP-11	R2254443
Calcium (Ca)-Total	32.4		0.10	mg/L	19-SEP-11	19-SEP-11	R2254443
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	19-SEP-11	19-SEP-11	R2254443
Cobalt (Co)-Total	0.00022		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Copper (Cu)-Total	0.00087		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Iron (Fe)-Total	0.55		0.10	mg/L	19-SEP-11	19-SEP-11	R2254443
Lead (Pb)-Total	0.000136		0.000090	mg/L	19-SEP-11	19-SEP-11	R2254443
Lithium (Li)-Total	0.0036		0.0020	mg/L	19-SEP-11	19-SEP-11	R2254443
Magnesium (Mg)-Total	9.26		0.010	mg/L	19-SEP-11	19-SEP-11	R2254443
Manganese (Mn)-Total	0.0948		0.00030	mg/L	19-SEP-11	19-SEP-11	R2254443
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	19-SEP-11	19-SEP-11	R2254443
Phosphorus (P)-Total	<0.20		0.20	mg/L	19-SEP-11	19-SEP-11	R2254443

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1058637-1 TED-01							
Sampled By: CLIENT on 13-SEP-11 @ 09:01							
Matrix: WATER							
Total Metals by ICP-MS							
Potassium (K)-Total	3.40		0.020	mg/L	19-SEP-11	19-SEP-11	R2254443
Rubidium (Rb)-Total	0.00284		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Selenium (Se)-Total	<0.0010		0.0010	mg/L	19-SEP-11	19-SEP-11	R2254443
Silicon (Si)-Total	7.14		0.050	mg/L	19-SEP-11	19-SEP-11	R2254443
Silver (Ag)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Sodium (Na)-Total	6.65		0.030	mg/L	19-SEP-11	19-SEP-11	R2254443
Strontium (Sr)-Total	0.0668		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Tin (Sn)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Titanium (Ti)-Total	0.00642		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Tungsten (W)-Total	<0.0010		0.0010	mg/L	19-SEP-11	19-SEP-11	R2254443
Uranium (U)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Vanadium (V)-Total	0.00057		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Zinc (Zn)-Total	0.0094		0.0050	mg/L	19-SEP-11	19-SEP-11	R2254443
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	19-SEP-11	19-SEP-11	R2254443
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Arsenic (As)-Dissolved	0.00131		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Barium (Ba)-Dissolved	0.0216		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Boron (B)-Dissolved	<0.010		0.010	mg/L	15-SEP-11	22-SEP-11	R2256750
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	15-SEP-11	24-SEP-11	R2257973
Calcium (Ca)-Dissolved	30.0		0.050	mg/L	15-SEP-11	22-SEP-11	R2256750
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Copper (Cu)-Dissolved	0.00051		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Iron (Fe)-Dissolved	0.21		0.10	mg/L	15-SEP-11	22-SEP-11	R2256750
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	15-SEP-11	22-SEP-11	R2256750
Lithium (Li)-Dissolved	0.0044		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Magnesium (Mg)-Dissolved	8.42		0.010	mg/L	15-SEP-11	22-SEP-11	R2256750
Manganese (Mn)-Dissolved	0.00532		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Molybdenum (Mo)-Dissolved	0.00016		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-11	22-SEP-11	R2256750
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	15-SEP-11	22-SEP-11	R2256750
Potassium (K)-Dissolved	3.15		0.020	mg/L	15-SEP-11	22-SEP-11	R2256750
Rubidium (Rb)-Dissolved	0.00255		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-11	22-SEP-11	R2256750
Silicon (Si)-Dissolved	6.22		0.050	mg/L	15-SEP-11	22-SEP-11	R2256750
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Sodium (Na)-Dissolved	6.13		0.020	mg/L	15-SEP-11	22-SEP-11	R2256750
Strontium (Sr)-Dissolved	0.0596		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Titanium (Ti)-Dissolved	0.00025		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1058637-1 TED-01 Sampled By: CLIENT on 13-SEP-11 @ 09:01 Matrix: WATER							
Dissolved Metals by ICP-MS							
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Vanadium (V)-Dissolved	0.00082		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	15-SEP-11	22-SEP-11	R2256750
Mercury Dissolved							
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	28-SEP-11	28-SEP-11	R2261188
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	28-SEP-11	28-SEP-11	R2261188
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	67.5		0.10	ug/L	21-SEP-11	22-SEP-11	R2256754
Phaeophytin a	8.55		0.10	ug/L	21-SEP-11	22-SEP-11	R2256754
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	93.7		1.0	mg/L		15-SEP-11	R2252511
Bicarbonate (HCO3)	114		2.0	mg/L		15-SEP-11	R2252511
Carbonate (CO3)	<0.60		0.60	mg/L		15-SEP-11	R2252511
Hydroxide (OH)	<0.40		0.40	mg/L		15-SEP-11	R2252511
Conductivity							
Conductivity	211		0.40	umhos/cm		15-SEP-11	R2252511
pH							
pH	7.88		0.10	pH units		15-SEP-11	R2252511
L1058637-2 UCI-01 Sampled By: CLIENT on 13-SEP-11 @ 12:08 Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		15-SEP-11	R2254232
Fluoride							
Fluoride	0.12		0.10	mg/L		15-SEP-11	R2254232
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		15-SEP-11	R2254232
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		15-SEP-11	R2254232
Sulfate							
Sulfate	<0.50		0.50	mg/L		15-SEP-11	R2254232
Miscellaneous Parameters							
Acidity (as CaCO3)	12.8		1.0	mg/L		15-SEP-11	R2254019
Ammonia as N	0.169		0.050	mg/L		22-SEP-11	R2256002
Bromide (Br)	<0.10		0.10	mg/L		15-SEP-11	R2254232
BOD Carbonaceous	1.5		1.0	mg/L	15-SEP-11	20-SEP-11	R2254702
Colour, True	118		5.0	CU		15-SEP-11	R2252500
Dissolved Organic Carbon	21.2		1.0	mg/L		16-SEP-11	R2253680
Hardness (as CaCO3)	210		0.30	mg/L		20-SEP-11	
Hardness (as CaCO3)	206		0.20	mg/L		26-SEP-11	
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	28-SEP-11	28-SEP-11	R2261188
Nitrate and Nitrite as N	<0.071		0.071	mg/L		15-SEP-11	
Phosphorus (P)-Total	0.144		0.010	mg/L		16-SEP-11	R2253052
Silica, Reactive (as SiO2)	17.1		0.0050	mg/L		16-SEP-11	R2252970
Total Dissolved Solids	264		5.0	mg/L		22-SEP-11	R2256947
Total Kjeldahl Nitrogen	1.05		0.20	mg/L	15-SEP-11	19-SEP-11	R2253763

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1058637-2 UCI-01							
Sampled By: CLIENT on 13-SEP-11 @ 12:08							
Matrix: WATER							
Total Organic Carbon	24.0		1.0	mg/L		16-SEP-11	R2253680
Total Suspended Solids	17.0		5.0	mg/L		22-SEP-11	R2256947
Turbidity	6.21		0.10	NTU		15-SEP-11	R2252540
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.142		0.0050	mg/L	19-SEP-11	19-SEP-11	R2254443
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Arsenic (As)-Total	0.00420		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Barium (Ba)-Total	0.0317		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Boron (B)-Total	<0.010		0.010	mg/L	19-SEP-11	19-SEP-11	R2254443
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	19-SEP-11	19-SEP-11	R2254443
Calcium (Ca)-Total	59.9		0.10	mg/L	19-SEP-11	19-SEP-11	R2254443
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	19-SEP-11	19-SEP-11	R2254443
Cobalt (Co)-Total	0.00140		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Copper (Cu)-Total	0.00060		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Iron (Fe)-Total	3.06		0.10	mg/L	19-SEP-11	19-SEP-11	R2254443
Lead (Pb)-Total	<0.000090		0.000090	mg/L	19-SEP-11	19-SEP-11	R2254443
Lithium (Li)-Total	0.0031		0.0020	mg/L	19-SEP-11	19-SEP-11	R2254443
Magnesium (Mg)-Total	14.7		0.010	mg/L	19-SEP-11	19-SEP-11	R2254443
Manganese (Mn)-Total	1.66		0.00030	mg/L	19-SEP-11	19-SEP-11	R2254443
Molybdenum (Mo)-Total	0.00026		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	19-SEP-11	19-SEP-11	R2254443
Phosphorus (P)-Total	<0.20		0.20	mg/L	19-SEP-11	19-SEP-11	R2254443
Potassium (K)-Total	1.52		0.020	mg/L	19-SEP-11	19-SEP-11	R2254443
Rubidium (Rb)-Total	0.00095		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Selenium (Se)-Total	<0.0010		0.0010	mg/L	19-SEP-11	19-SEP-11	R2254443
Silicon (Si)-Total	7.17		0.050	mg/L	19-SEP-11	19-SEP-11	R2254443
Silver (Ag)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Sodium (Na)-Total	1.62		0.030	mg/L	19-SEP-11	19-SEP-11	R2254443
Strontium (Sr)-Total	0.0869		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Thorium (Th)-Total	0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Tin (Sn)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Titanium (Ti)-Total	0.00682		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Tungsten (W)-Total	<0.0010		0.0010	mg/L	19-SEP-11	19-SEP-11	R2254443
Uranium (U)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Vanadium (V)-Total	0.00121		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Zinc (Zn)-Total	0.0092		0.0050	mg/L	19-SEP-11	19-SEP-11	R2254443
Zirconium (Zr)-Total	0.00074		0.00040	mg/L	19-SEP-11	19-SEP-11	R2254443
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0049		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Arsenic (As)-Dissolved	0.00278		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Barium (Ba)-Dissolved	0.0214		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Boron (B)-Dissolved	<0.010		0.010	mg/L	15-SEP-11	22-SEP-11	R2256750
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	15-SEP-11	22-SEP-11	R2256750
Calcium (Ca)-Dissolved	58.6		0.050	mg/L	15-SEP-11	22-SEP-11	R2256750

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1058637-2 UCI-01							
Sampled By: CLIENT on 13-SEP-11 @ 12:08							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Cobalt (Co)-Dissolved	0.00044		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Copper (Cu)-Dissolved	0.00035		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Iron (Fe)-Dissolved	0.94		0.10	mg/L	15-SEP-11	22-SEP-11	R2256750
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	15-SEP-11	22-SEP-11	R2256750
Lithium (Li)-Dissolved	0.0048		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Magnesium (Mg)-Dissolved	14.6		0.010	mg/L	15-SEP-11	22-SEP-11	R2256750
Manganese (Mn)-Dissolved	0.265		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Molybdenum (Mo)-Dissolved	0.00021		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Nickel (Ni)-Dissolved	0.0010		0.0010	mg/L	15-SEP-11	22-SEP-11	R2256750
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	15-SEP-11	22-SEP-11	R2256750
Potassium (K)-Dissolved	1.49		0.020	mg/L	15-SEP-11	22-SEP-11	R2256750
Rubidium (Rb)-Dissolved	0.00062		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-11	22-SEP-11	R2256750
Silicon (Si)-Dissolved	6.40		0.050	mg/L	15-SEP-11	22-SEP-11	R2256750
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Sodium (Na)-Dissolved	1.67		0.020	mg/L	15-SEP-11	22-SEP-11	R2256750
Strontium (Sr)-Dissolved	0.0845		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Titanium (Ti)-Dissolved	0.00058		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Vanadium (V)-Dissolved	0.00040		0.00020	mg/L	15-SEP-11	24-SEP-11	R2257973
Zinc (Zn)-Dissolved	0.0023		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Zirconium (Zr)-Dissolved	0.00050		0.00040	mg/L	15-SEP-11	22-SEP-11	R2256750
Mercury Dissolved							
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	28-SEP-11	28-SEP-11	R2261188
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	28-SEP-11	28-SEP-11	R2261188
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	7.21		0.10	ug/L	21-SEP-11	22-SEP-11	R2256754
Phaeophytin a	3.13		0.10	ug/L	21-SEP-11	22-SEP-11	R2256754
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	220		1.0	mg/L		15-SEP-11	R2252511
Bicarbonate (HCO3)	268		2.0	mg/L		15-SEP-11	R2252511
Carbonate (CO3)	<0.60		0.60	mg/L		15-SEP-11	R2252511
Hydroxide (OH)	<0.40		0.40	mg/L		15-SEP-11	R2252511
Conductivity							
Conductivity	342		0.40	umhos/cm		15-SEP-11	R2252511
pH							
pH	7.48		0.10	pH units		15-SEP-11	R2252511
L1058637-3 GHC-01							
Sampled By: CLIENT on 13-SEP-11 @ 15:57							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	3.56		0.50	mg/L		15-SEP-11	R2254232

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1058637-3 GHC-01							
Sampled By: CLIENT on 13-SEP-11 @ 15:57							
Matrix: WATER							
Fluoride							
Fluoride	<0.10		0.10	mg/L		15-SEP-11	R2254232
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		15-SEP-11	R2254232
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		15-SEP-11	R2254232
Sulfate							
Sulfate	0.54		0.50	mg/L		15-SEP-11	R2254232
Miscellaneous Parameters							
Acidity (as CaCO3)	7.4		1.0	mg/L		15-SEP-11	R2254019
Ammonia as N	<0.050		0.050	mg/L		22-SEP-11	R2256002
Bromide (Br)	<0.10		0.10	mg/L		15-SEP-11	R2254232
BOD Carbonaceous	4.2		1.0	mg/L	15-SEP-11	20-SEP-11	R2254702
Colour, True	324		5.0	CU		15-SEP-11	R2252500
Dissolved Organic Carbon	42.0		1.0	mg/L		16-SEP-11	R2253680
Hardness (as CaCO3)	53.0		0.30	mg/L		20-SEP-11	
Hardness (as CaCO3)	52.7		0.20	mg/L		23-SEP-11	
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	28-SEP-11	28-SEP-11	R2261188
Nitrate and Nitrite as N	<0.071		0.071	mg/L		15-SEP-11	
Phosphorus (P)-Total	0.053		0.010	mg/L		16-SEP-11	R2253052
Silica, Reactive (as SiO2)	5.73		0.0050	mg/L		16-SEP-11	R2252970
Total Dissolved Solids	70.0		5.0	mg/L		22-SEP-11	R2256947
Total Kjeldahl Nitrogen	1.83		0.20	mg/L	15-SEP-11	19-SEP-11	R2253763
Total Organic Carbon	45.0		1.0	mg/L		16-SEP-11	R2253680
Total Suspended Solids	13.0		5.0	mg/L		22-SEP-11	R2256947
Turbidity	5.10		0.10	NTU		15-SEP-11	R2252540
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0927		0.0050	mg/L	19-SEP-11	19-SEP-11	R2254443
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Arsenic (As)-Total	0.0122		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Barium (Ba)-Total	0.0133		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Boron (B)-Total	<0.010		0.010	mg/L	19-SEP-11	19-SEP-11	R2254443
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	19-SEP-11	19-SEP-11	R2254443
Calcium (Ca)-Total	13.4		0.10	mg/L	19-SEP-11	19-SEP-11	R2254443
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	19-SEP-11	19-SEP-11	R2254443
Cobalt (Co)-Total	0.00034		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Copper (Cu)-Total	0.00086		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Iron (Fe)-Total	1.16		0.10	mg/L	19-SEP-11	19-SEP-11	R2254443
Lead (Pb)-Total	0.000200		0.000090	mg/L	19-SEP-11	19-SEP-11	R2254443
Lithium (Li)-Total	<0.0020		0.0020	mg/L	19-SEP-11	19-SEP-11	R2254443
Magnesium (Mg)-Total	4.75		0.010	mg/L	19-SEP-11	19-SEP-11	R2254443
Manganese (Mn)-Total	0.160		0.00030	mg/L	19-SEP-11	19-SEP-11	R2254443
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	19-SEP-11	19-SEP-11	R2254443
Phosphorus (P)-Total	<0.20		0.20	mg/L	19-SEP-11	19-SEP-11	R2254443
Potassium (K)-Total	0.460		0.020	mg/L	19-SEP-11	19-SEP-11	R2254443
Rubidium (Rb)-Total	0.00076		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Selenium (Se)-Total	<0.0010		0.0010	mg/L	19-SEP-11	19-SEP-11	R2254443

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1058637-3	GHC-01						
Sampled By:	CLIENT on 13-SEP-11 @ 15:57						
Matrix:	WATER						
Total Metals by ICP-MS							
Silicon (Si)-Total	2.50		0.050	mg/L	19-SEP-11	19-SEP-11	R2254443
Silver (Ag)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Sodium (Na)-Total	1.83		0.030	mg/L	19-SEP-11	19-SEP-11	R2254443
Strontium (Sr)-Total	0.0323		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Tin (Sn)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Titanium (Ti)-Total	0.00161		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Tungsten (W)-Total	<0.0010		0.0010	mg/L	19-SEP-11	19-SEP-11	R2254443
Uranium (U)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Vanadium (V)-Total	0.00032		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Zinc (Zn)-Total	0.0121		0.0050	mg/L	19-SEP-11	19-SEP-11	R2254443
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	19-SEP-11	19-SEP-11	R2254443
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0588		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Antimony (Sb)-Dissolved	0.00025		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Arsenic (As)-Dissolved	0.00769		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Barium (Ba)-Dissolved	0.0113		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Boron (B)-Dissolved	<0.010		0.010	mg/L	15-SEP-11	22-SEP-11	R2256750
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	15-SEP-11	22-SEP-11	R2256750
Calcium (Ca)-Dissolved	13.7		0.050	mg/L	15-SEP-11	22-SEP-11	R2256750
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Copper (Cu)-Dissolved	0.00067		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Iron (Fe)-Dissolved	0.62		0.10	mg/L	15-SEP-11	22-SEP-11	R2256750
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	15-SEP-11	22-SEP-11	R2256750
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Magnesium (Mg)-Dissolved	4.51		0.010	mg/L	15-SEP-11	22-SEP-11	R2256750
Manganese (Mn)-Dissolved	0.00441		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-11	22-SEP-11	R2256750
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	15-SEP-11	22-SEP-11	R2256750
Potassium (K)-Dissolved	0.479		0.020	mg/L	15-SEP-11	22-SEP-11	R2256750
Rubidium (Rb)-Dissolved	0.00072		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-11	22-SEP-11	R2256750
Silicon (Si)-Dissolved	1.66		0.050	mg/L	15-SEP-11	22-SEP-11	R2256750
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Sodium (Na)-Dissolved	1.77		0.020	mg/L	15-SEP-11	22-SEP-11	R2256750
Strontium (Sr)-Dissolved	0.0277		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Titanium (Ti)-Dissolved	0.00076		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Vanadium (V)-Dissolved	0.00051		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1058637-3							
GHC-01							
Sampled By: CLIENT on 13-SEP-11 @ 15:57							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Zinc (Zn)-Dissolved	0.0118		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	15-SEP-11	22-SEP-11	R2256750
Mercury Dissolved							
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	28-SEP-11	28-SEP-11	R2261188
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	28-SEP-11	28-SEP-11	R2261188
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	11.6		0.10	ug/L	21-SEP-11	22-SEP-11	R2256754
Phaeophytin a	11.6		0.10	ug/L	21-SEP-11	22-SEP-11	R2256754
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	39.2		1.0	mg/L		15-SEP-11	R2252511
Bicarbonate (HCO3)	47.8		2.0	mg/L		15-SEP-11	R2252511
Carbonate (CO3)	<0.60		0.60	mg/L		15-SEP-11	R2252511
Hydroxide (OH)	<0.40		0.40	mg/L		15-SEP-11	R2252511
Conductivity							
Conductivity	90.8		0.40	umhos/cm		15-SEP-11	R2252511
pH							
pH	7.02		0.10	pH units		15-SEP-11	R2252511
L1058637-4							
THC-01							
Sampled By: CLIENT on 13-SEP-11 @ 14:02							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		15-SEP-11	R2254232
Fluoride							
Fluoride	<0.10		0.10	mg/L		15-SEP-11	R2254232
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		15-SEP-11	R2254232
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		15-SEP-11	R2254232
Sulfate							
Sulfate	<0.50		0.50	mg/L		15-SEP-11	R2254232
Miscellaneous Parameters							
Acidity (as CaCO3)	5.1		1.0	mg/L		15-SEP-11	R2254019
Ammonia as N	<0.050		0.050	mg/L		22-SEP-11	R2256002
Bromide (Br)	<0.10		0.10	mg/L		15-SEP-11	R2254232
BOD Carbonaceous	1.6		1.0	mg/L	15-SEP-11	20-SEP-11	R2254702
Colour, True	188		5.0	CU		15-SEP-11	R2252500
Dissolved Organic Carbon	28.6		1.0	mg/L		16-SEP-11	R2253680
Hardness (as CaCO3)	38.1		0.20	mg/L		23-SEP-11	
Hardness (as CaCO3)	41.0		0.30	mg/L		20-SEP-11	
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	28-SEP-11	28-SEP-11	R2261188
Nitrate and Nitrite as N	<0.071		0.071	mg/L		15-SEP-11	
Phosphorus (P)-Total	0.038		0.010	mg/L		16-SEP-11	R2253052
Silica, Reactive (as SiO2)	2.79		0.0050	mg/L		16-SEP-11	R2252970
Total Dissolved Solids	50.0		5.0	mg/L		22-SEP-11	R2256947
Total Kjeldahl Nitrogen	1.12		0.20	mg/L	15-SEP-11	19-SEP-11	R2253763
Total Organic Carbon	31.8		1.0	mg/L		16-SEP-11	R2253680
Total Suspended Solids	10.0		5.0	mg/L		22-SEP-11	R2256947
Turbidity	3.79		0.10	NTU		15-SEP-11	R2252540

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1058637-4 THC-01							
Sampled By: CLIENT on 13-SEP-11 @ 14:02							
Matrix: WATER							
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.123		0.0050	mg/L	19-SEP-11	19-SEP-11	R2254443
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Arsenic (As)-Total	0.00287		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Barium (Ba)-Total	0.0101		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Boron (B)-Total	0.013		0.010	mg/L	19-SEP-11	19-SEP-11	R2254443
Cadmium (Cd)-Total	0.000011		0.000010	mg/L	19-SEP-11	19-SEP-11	R2254443
Calcium (Ca)-Total	11.0		0.10	mg/L	19-SEP-11	19-SEP-11	R2254443
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	19-SEP-11	19-SEP-11	R2254443
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Copper (Cu)-Total	0.00078		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Iron (Fe)-Total	0.61		0.10	mg/L	19-SEP-11	19-SEP-11	R2254443
Lead (Pb)-Total	0.000258		0.000090	mg/L	19-SEP-11	19-SEP-11	R2254443
Lithium (Li)-Total	0.0032		0.0020	mg/L	19-SEP-11	19-SEP-11	R2254443
Magnesium (Mg)-Total	3.31		0.010	mg/L	19-SEP-11	19-SEP-11	R2254443
Manganese (Mn)-Total	0.0386		0.00030	mg/L	19-SEP-11	19-SEP-11	R2254443
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	19-SEP-11	19-SEP-11	R2254443
Phosphorus (P)-Total	<0.20		0.20	mg/L	19-SEP-11	19-SEP-11	R2254443
Potassium (K)-Total	0.309		0.020	mg/L	19-SEP-11	19-SEP-11	R2254443
Rubidium (Rb)-Total	0.00062		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Selenium (Se)-Total	<0.0010		0.0010	mg/L	19-SEP-11	19-SEP-11	R2254443
Silicon (Si)-Total	1.65		0.050	mg/L	19-SEP-11	19-SEP-11	R2254443
Silver (Ag)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Sodium (Na)-Total	0.987		0.030	mg/L	19-SEP-11	19-SEP-11	R2254443
Strontium (Sr)-Total	0.0184		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Tin (Sn)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Titanium (Ti)-Total	0.00543		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Tungsten (W)-Total	<0.0010		0.0010	mg/L	19-SEP-11	19-SEP-11	R2254443
Uranium (U)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Vanadium (V)-Total	0.00046		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Zinc (Zn)-Total	0.0092		0.0050	mg/L	19-SEP-11	19-SEP-11	R2254443
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	19-SEP-11	19-SEP-11	R2254443
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0417		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Arsenic (As)-Dissolved	0.00255		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Barium (Ba)-Dissolved	0.00751		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Boron (B)-Dissolved	<0.010		0.010	mg/L	15-SEP-11	22-SEP-11	R2256750
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	15-SEP-11	22-SEP-11	R2256750
Calcium (Ca)-Dissolved	9.70		0.050	mg/L	15-SEP-11	22-SEP-11	R2256750
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1058637-4 THC-01							
Sampled By: CLIENT on 13-SEP-11 @ 14:02							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Copper (Cu)-Dissolved	0.00049		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Iron (Fe)-Dissolved	0.29		0.10	mg/L	15-SEP-11	22-SEP-11	R2256750
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	15-SEP-11	22-SEP-11	R2256750
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Magnesium (Mg)-Dissolved	3.38		0.010	mg/L	15-SEP-11	22-SEP-11	R2256750
Manganese (Mn)-Dissolved	0.00822		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-11	22-SEP-11	R2256750
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	15-SEP-11	22-SEP-11	R2256750
Potassium (K)-Dissolved	0.291		0.020	mg/L	15-SEP-11	22-SEP-11	R2256750
Rubidium (Rb)-Dissolved	0.00052		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-11	22-SEP-11	R2256750
Silicon (Si)-Dissolved	0.549		0.050	mg/L	15-SEP-11	22-SEP-11	R2256750
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Sodium (Na)-Dissolved	1.11		0.020	mg/L	15-SEP-11	22-SEP-11	R2256750
Strontium (Sr)-Dissolved	0.0200		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Titanium (Ti)-Dissolved	0.00074		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Vanadium (V)-Dissolved	0.00046		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Zinc (Zn)-Dissolved	0.0067		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	15-SEP-11	22-SEP-11	R2256750
Mercury Dissolved							
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	28-SEP-11	28-SEP-11	R2261188
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	28-SEP-11	28-SEP-11	R2261188
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	4.06		0.10	ug/L	21-SEP-11	22-SEP-11	R2256754
Phaeophytin a	3.83		0.10	ug/L	21-SEP-11	22-SEP-11	R2256754
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	33.2		1.0	mg/L		15-SEP-11	R2252511
Bicarbonate (HCO3)	40.5		2.0	mg/L		15-SEP-11	R2252511
Carbonate (CO3)	<0.60		0.60	mg/L		15-SEP-11	R2252511
Hydroxide (OH)	<0.40		0.40	mg/L		15-SEP-11	R2252511
Conductivity							
Conductivity	67.4		0.40	umhos/cm		15-SEP-11	R2252511
pH							
pH	6.93		0.10	pH units		15-SEP-11	R2252511
L1058637-5 TRB-01							
Sampled By: CLIENT on 13-SEP-11							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		15-SEP-11	R2254232
Fluoride							
Fluoride	<0.10		0.10	mg/L		15-SEP-11	R2254232
Nitrate as N							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1058637-5 TRB-01							
Sampled By: CLIENT on 13-SEP-11							
Matrix: WATER							
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		15-SEP-11	R2254232
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		15-SEP-11	R2254232
Sulfate							
Sulfate	<0.50		0.50	mg/L		15-SEP-11	R2254232
Miscellaneous Parameters							
Acidity (as CaCO3)	1.1		1.0	mg/L		15-SEP-11	R2254019
Ammonia as N	<0.050		0.050	mg/L		22-SEP-11	R2256002
Bromide (Br)	<0.10		0.10	mg/L		15-SEP-11	R2254232
BOD Carbonaceous	<1.0		1.0	mg/L	15-SEP-11	20-SEP-11	R2254702
Colour, True	<5.0		5.0	CU		15-SEP-11	R2252500
Dissolved Organic Carbon	<1.0		1.0	mg/L		16-SEP-11	R2253680
Hardness (as CaCO3)	<0.30		0.30	mg/L		20-SEP-11	
Hardness (as CaCO3)	0.34		0.20	mg/L		23-SEP-11	
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	28-SEP-11	28-SEP-11	R2261188
Nitrate and Nitrite as N	<0.071		0.071	mg/L		15-SEP-11	
Phosphorus (P)-Total	<0.010		0.010	mg/L		16-SEP-11	R2253052
Silica, Reactive (as SiO2)	0.0060		0.0050	mg/L		16-SEP-11	R2252970
Total Dissolved Solids	<5.0		5.0	mg/L		22-SEP-11	R2256947
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	15-SEP-11	19-SEP-11	R2253763
Total Organic Carbon	<1.0		1.0	mg/L		16-SEP-11	R2253680
Total Suspended Solids	<5.0		5.0	mg/L		22-SEP-11	R2256947
Turbidity	0.11		0.10	NTU		15-SEP-11	R2252540
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0054		0.0050	mg/L	19-SEP-11	19-SEP-11	R2254443
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Arsenic (As)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Barium (Ba)-Total	0.00025		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Boron (B)-Total	<0.010		0.010	mg/L	19-SEP-11	19-SEP-11	R2254443
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	19-SEP-11	19-SEP-11	R2254443
Calcium (Ca)-Total	<0.10		0.10	mg/L	19-SEP-11	19-SEP-11	R2254443
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	19-SEP-11	19-SEP-11	R2254443
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Copper (Cu)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Iron (Fe)-Total	<0.10		0.10	mg/L	19-SEP-11	19-SEP-11	R2254443
Lead (Pb)-Total	<0.000090		0.000090	mg/L	19-SEP-11	19-SEP-11	R2254443
Lithium (Li)-Total	<0.0020		0.0020	mg/L	19-SEP-11	19-SEP-11	R2254443
Magnesium (Mg)-Total	<0.010		0.010	mg/L	19-SEP-11	19-SEP-11	R2254443
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	19-SEP-11	19-SEP-11	R2254443
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	19-SEP-11	19-SEP-11	R2254443
Phosphorus (P)-Total	<0.20		0.20	mg/L	19-SEP-11	19-SEP-11	R2254443
Potassium (K)-Total	<0.020		0.020	mg/L	19-SEP-11	19-SEP-11	R2254443
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Selenium (Se)-Total	<0.0010		0.0010	mg/L	19-SEP-11	19-SEP-11	R2254443
Silicon (Si)-Total	<0.050		0.050	mg/L	19-SEP-11	19-SEP-11	R2254443
Silver (Ag)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1058637-5 TRB-01							
Sampled By: CLIENT on 13-SEP-11							
Matrix: WATER							
Total Metals by ICP-MS							
Sodium (Na)-Total	<0.030		0.030	mg/L	19-SEP-11	19-SEP-11	R2254443
Strontium (Sr)-Total	0.00011		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Tin (Sn)-Total	0.00021		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Titanium (Ti)-Total	0.00045		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Tungsten (W)-Total	<0.0010		0.0010	mg/L	19-SEP-11	19-SEP-11	R2254443
Uranium (U)-Total	<0.00010		0.00010	mg/L	19-SEP-11	19-SEP-11	R2254443
Vanadium (V)-Total	<0.00020		0.00020	mg/L	19-SEP-11	19-SEP-11	R2254443
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	19-SEP-11	19-SEP-11	R2254443
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	19-SEP-11	19-SEP-11	R2254443
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Boron (B)-Dissolved	<0.010		0.010	mg/L	15-SEP-11	22-SEP-11	R2256750
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	15-SEP-11	22-SEP-11	R2256750
Calcium (Ca)-Dissolved	0.138		0.050	mg/L	15-SEP-11	22-SEP-11	R2256750
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	15-SEP-11	22-SEP-11	R2256750
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	15-SEP-11	22-SEP-11	R2256750
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	15-SEP-11	22-SEP-11	R2256750
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-11	22-SEP-11	R2256750
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	15-SEP-11	22-SEP-11	R2256750
Potassium (K)-Dissolved	<0.020		0.020	mg/L	15-SEP-11	22-SEP-11	R2256750
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-11	22-SEP-11	R2256750
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	15-SEP-11	22-SEP-11	R2256750
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	15-SEP-11	22-SEP-11	R2256750
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-11	22-SEP-11	R2256750
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-11	22-SEP-11	R2256750
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-11	22-SEP-11	R2256750
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	15-SEP-11	22-SEP-11	R2256750

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1058637-5 TRB-01							
Sampled By: CLIENT on 13-SEP-11							
Matrix: WATER							
Mercury Dissolved							
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	28-SEP-11	28-SEP-11	R2261188
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	28-SEP-11	28-SEP-11	R2261188
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	21-SEP-11	22-SEP-11	R2256754
Phaeophytin a	<0.10		0.10	ug/L	21-SEP-11	22-SEP-11	R2256754
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO ₃)	4.4		1.0	mg/L		15-SEP-11	R2252511
Bicarbonate (HCO ₃)	5.3		2.0	mg/L		15-SEP-11	R2252511
Carbonate (CO ₃)	<0.60		0.60	mg/L		15-SEP-11	R2252511
Hydroxide (OH)	<0.40		0.40	mg/L		15-SEP-11	R2252511
Conductivity							
Conductivity	0.89		0.40	umhos/cm		16-SEP-11	R2252893
pH							
pH	5.99		0.10	pH units		15-SEP-11	R2252511

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Qualifiers for Individual Samples Listed:

Sample Number	Client ID	Qualifier	Description
L1058637-1	TED-01	SFPL	Sample was Filtered and Preserved at the laboratory
L1058637-2	UCI-01	SFPL	Sample was Filtered and Preserved at the laboratory
L1058637-3	GHC-01	SFPL	Sample was Filtered and Preserved at the laboratory
L1058637-4	THC-01	SFPL	Sample was Filtered and Preserved at the laboratory
L1058637-5	TRB-01	SFPL	Sample was Filtered and Preserved at the laboratory

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-L-8.3-PCT-WP	Water	Acidity	APHA 2310 B
Acidity is measured using auto-titration with sodium hydroxide to an endpoint of pH 8.3			
ALK-TOT-WP	Water	Alkalinity	APHA 2320B
Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically.			
BR-IC-WP	Water	Bromide	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
CHL,PHEO-FLUORO-WP	Water	Chlorophyll a, Pheophytin by fluorometry	EPA 445.0
Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification.			
CL-IC-WP	Water	Chloride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
COLOUR-TRUE-WP	Water	Colour, True	APHA 2120C
True colour in water is analyzed by discrete analyzer using the platinum-cobalt colourimetric method. Colour is pH dependant; unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit.			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.			
EC-WP	Water	Conductivity	APHA 2510B

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
<p>Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.</p>			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	HARDNESS CALCULATED
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
F-IC-WP	Water	Fluoride	EPA 300.1 IC
<p>This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".</p>			
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0
<p>Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.</p>			
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
<p>Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.</p>			
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
<p>Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.</p>			
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
<p>Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.</p>			
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
<p>Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.</p>			
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
<p>Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.</p>			
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-WP	Water	Nitrite as N	EPA 300.1 IC
NO3-IC-WP	Water	Nitrate as N	EPA 300.1 IC
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
<p>This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.</p>			
PH-WP	Water	pH	APHA 4500H
<p>The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.</p>			
SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2
<p>This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.</p>			
SO4-IC-WP	Water	Sulfate	EPA 300.1 IC

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540C
The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.			
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540D
The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.			
TURBIDITY-WP	Water	Turbidity	APHA 2130B (modified)
Turbidity in aqueous matrices is determined by the nephelometric method.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1058637

Report Date: 04-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-L-8.3-PCT-WP								
	Water							
Batch	R2254019							
WG1351761-3	DUP	L1055555-11						
Acidity (as CaCO3)		1.4	1.5		mg/L	8.3	25	15-SEP-11
WG1351761-4	DUP	L1055555-14						
Acidity (as CaCO3)		1.2	1.2		mg/L	3.5	25	15-SEP-11
WG1351761-2	LCS							
Acidity (as CaCO3)			107		%		70-130	15-SEP-11
WG1351761-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	15-SEP-11
ALK-TOT-WP								
	Water							
Batch	R2252511							
WG1350172-3	CVS							
Alkalinity, Total (as CaCO3)			103		%		85-115	15-SEP-11
WG1350172-4	CVS							
Alkalinity, Total (as CaCO3)			109		%		85-115	15-SEP-11
WG1350172-5	DUP	L1058858-3						
Alkalinity, Total (as CaCO3)		645	645		mg/L	0.032	20	15-SEP-11
Bicarbonate (HCO3)		744	741		mg/L	0.36	25	15-SEP-11
Carbonate (CO3)		10.0	11.2		mg/L	11	25	15-SEP-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	15-SEP-11
WG1350172-6	DUP	L1058921-1						
Alkalinity, Total (as CaCO3)		282	282		mg/L	0.15	20	15-SEP-11
Bicarbonate (HCO3)		318	317		mg/L	0.057	25	15-SEP-11
Carbonate (CO3)		7.85	8.18		mg/L	4.1	25	15-SEP-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	15-SEP-11
WG1350172-7	DUP	L1058765-1						
Alkalinity, Total (as CaCO3)		10.6	10.6		mg/L	0.0	20	15-SEP-11
Bicarbonate (HCO3)		12.9	12.9		mg/L	0.0	25	15-SEP-11
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	25	15-SEP-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	15-SEP-11
BR-IC-WP								
	Water							
Batch	R2254232							
WG1351907-2	LCS							
Bromide (Br)			106		%		85-115	15-SEP-11
WG1351907-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	15-SEP-11
C-DIS-ORG-WP								
	Water							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-DIS-ORG-WP		Water						
Batch	R2253680							
WG1351396-2	CVS							
Dissolved Organic Carbon			102		%		80-120	16-SEP-11
C-TOT-ORG-WP		Water						
Batch	R2253680							
WG1351396-2	CVS							
Total Organic Carbon			101		%		80-120	16-SEP-11
WG1351396-3	DUP	L1058213-3						
Total Organic Carbon		5.7	5.8		mg/L	3.0	20	16-SEP-11
WG1351396-4	DUP	L1058213-4						
Total Organic Carbon		13.4	13.5		mg/L	0.85	20	16-SEP-11
WG1351396-1	MB							
Total Organic Carbon			<1.0		mg/L		1	16-SEP-11
CHL,PHEO-FLUORO-WP		Water						
Batch	R2256754							
WG1354202-1	CVS							
Chlorophyll a			81		%		65-135	22-SEP-11
WG1354202-2	CVS							
Chlorophyll a			109		%		65-135	22-SEP-11
WG1354190-2	DUP	L1057967-2						
Chlorophyll a		0.21	0.22		ug/L	4.7	35	22-SEP-11
Phaeophytin a		0.25	0.33		ug/L	28	35	22-SEP-11
WG1354190-3	DUP	L1059332-8						
Chlorophyll a		0.25	0.15	J	ug/L	0.10	0.2	22-SEP-11
Phaeophytin a		0.47	0.35		ug/L	29	35	22-SEP-11
WG1354190-1	MB							
Chlorophyll a			<0.10		ug/L		0.1	22-SEP-11
Phaeophytin a			<0.10		ug/L		0.1	22-SEP-11
CL-IC-WP		Water						
Batch	R2254232							
WG1351907-3	DUP	L1058213-4						
Chloride		83.2	83.0		mg/L	0.26	20	15-SEP-11
WG1351907-2	LCS							
Chloride			101		%		85-115	15-SEP-11
WG1351907-1	MB							
Chloride			<0.50		mg/L		0.5	15-SEP-11
WG1351907-4	MS	L1058213-4						



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-IC-WP								
	Water							
Batch	R2254232							
WG1351907-4	MS	L1058213-4						
Chloride			N/A	MS-B	%		-	15-SEP-11
COLOUR-TRUE-WP								
	Water							
Batch	R2252500							
WG1350135-3	DUP	L1058211-8						
Colour, True		131	134		CU	2.0	20	15-SEP-11
WG1350135-4	DUP	L1058637-1						
Colour, True		114	112		CU	1.3	20	15-SEP-11
WG1350135-2	LCS							
Colour, True			100		%		85-115	15-SEP-11
WG1350135-1	MB							
Colour, True			<5.0		CU		5	15-SEP-11
CONSULT-BOD-CBOD-WP								
	Water							
Batch	R2254702							
WG1349135-3	DUP	L1058767-1						
BOD Carbonaceous		<1.0	<1.0	RPD-NA	mg/L	N/A	400	20-SEP-11
WG1349135-2	IRM	61-GG						
BOD Carbonaceous			97		%		85-115	20-SEP-11
WG1349135-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	20-SEP-11
EC-WP								
	Water							
Batch	R2252511							
WG1350172-1	CVS							
Conductivity			96		%		90-110	15-SEP-11
WG1350172-5	DUP	L1058858-3						
Conductivity		1650	1660		umhos/cm	0.31	10	15-SEP-11
WG1350172-6	DUP	L1058921-1						
Conductivity		1100	1110		umhos/cm	0.17	10	15-SEP-11
WG1350172-7	DUP	L1058765-1						
Conductivity		3390	3380		umhos/cm	0.29	10	15-SEP-11
Batch	R2252893							
WG1350572-1	CVS							
Conductivity			99		%		90-110	16-SEP-11
WG1350572-2	DUP	L1058858-2						
Conductivity		17.2	17.3		umhos/cm	0.29	10	16-SEP-11
F-IC-WP								
	Water							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-WP								
	Water							
Batch	R2254232							
WG1351907-3	DUP	L1058213-4						
Fluoride		<0.10	<0.10	RPD-NA	mg/L	N/A	20	15-SEP-11
WG1351907-2	LCS							
Fluoride			104		%		85-115	15-SEP-11
WG1351907-1	MB							
Fluoride			<0.10		mg/L		0.1	15-SEP-11
WG1351907-4	MS	L1058213-4						
Fluoride			113		%		75-125	15-SEP-11
HG-D-CVAF-WP								
	Water							
Batch	R2261188							
WG1359583-3	DUP	L1058637-5						
Mercury (Hg)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	28-SEP-11
Mercury (Hg)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	28-SEP-11
WG1359583-2	LCS							
Mercury (Hg)-Dissolved			94		%		80-120	28-SEP-11
Mercury (Hg)-Dissolved			94		%		80-120	28-SEP-11
WG1359583-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	28-SEP-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	28-SEP-11
WG1359605-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	28-SEP-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	28-SEP-11
WG1359583-4	MS	L1058637-5						
Mercury (Hg)-Dissolved			113		%		70-130	28-SEP-11
Mercury (Hg)-Dissolved			113		%		70-130	28-SEP-11
HG-T-CVAF-WP								
	Water							
Batch	R2261188							
WG1359583-3	DUP	L1058637-5						
Mercury (Hg)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	28-SEP-11
WG1359583-5	DUP	L1058834-14						
Mercury (Hg)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	28-SEP-11
WG1359583-2	LCS							
Mercury (Hg)-Total			94		%		80-120	28-SEP-11
WG1359583-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	28-SEP-11
WG1359583-4	MS	L1058637-5						
Mercury (Hg)-Total			113		%		70-130	28-SEP-11



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 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
	Water							
Batch	R2261188							
WG1359583-6 MS		L1058834-14						
Mercury (Hg)-Total			106		%		70-130	28-SEP-11
MET-D-L-MS-WP								
	Water							
Batch	R2256750							
WG1354751-4 DUP		WG1354751-3						
Aluminum (Al)-Dissolved		0.0444	0.0466		mg/L	4.9	20	22-SEP-11
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	22-SEP-11
Arsenic (As)-Dissolved		0.00042	0.00043		mg/L	3.6	400	22-SEP-11
Barium (Ba)-Dissolved		0.0103	0.0104		mg/L	1.1	20	22-SEP-11
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	22-SEP-11
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	22-SEP-11
Boron (B)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	400	22-SEP-11
Cadmium (Cd)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	22-SEP-11
Calcium (Ca)-Dissolved		17.0	17.3		mg/L	1.8	20	22-SEP-11
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	22-SEP-11
Chromium (Cr)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	22-SEP-11
Cobalt (Co)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	22-SEP-11
Copper (Cu)-Dissolved		0.00112	0.00109		mg/L	2.3	20	22-SEP-11
Iron (Fe)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	22-SEP-11
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	400	22-SEP-11
Lithium (Li)-Dissolved		0.0027	0.0034		mg/L	20	400	22-SEP-11
Magnesium (Mg)-Dissolved		4.83	4.91		mg/L	1.8	20	22-SEP-11
Manganese (Mn)-Dissolved		0.00056	0.00056		mg/L	1.3	20	22-SEP-11
Molybdenum (Mo)-Dissolved		0.00017	0.00017		mg/L	4.7	400	22-SEP-11
Nickel (Ni)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	22-SEP-11
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	400	22-SEP-11
Potassium (K)-Dissolved		1.05	1.07		mg/L	1.8	20	22-SEP-11
Rubidium (Rb)-Dissolved		0.00106	0.00107		mg/L	0.56	20	22-SEP-11
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	22-SEP-11
Silicon (Si)-Dissolved		1.66	1.69		mg/L	1.3	20	22-SEP-11
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	22-SEP-11
Sodium (Na)-Dissolved		3.07	3.10		mg/L	0.97	20	22-SEP-11
Strontium (Sr)-Dissolved		0.0398	0.0409		mg/L	2.8	20	22-SEP-11



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Client: AECOM Canada Ltd. (Winnipeg)
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 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2256750							
WG1354751-4	DUP	WG1354751-3						
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	22-SEP-11
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	22-SEP-11
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	22-SEP-11
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	22-SEP-11
Titanium (Ti)-Dissolved		0.00172	0.00183		mg/L	6.4	20	22-SEP-11
Tungsten (W)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	22-SEP-11
Uranium (U)-Dissolved		0.00015	0.00016		mg/L	5.7	400	22-SEP-11
Vanadium (V)-Dissolved		0.00075	0.00077		mg/L	3.0	400	22-SEP-11
Zinc (Zn)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	22-SEP-11
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	22-SEP-11
WG1354751-2	LCS							
Aluminum (Al)-Dissolved			100		%		80-120	22-SEP-11
Antimony (Sb)-Dissolved			101		%		80-120	22-SEP-11
Arsenic (As)-Dissolved			100		%		80-120	22-SEP-11
Barium (Ba)-Dissolved			101		%		80-120	22-SEP-11
Beryllium (Be)-Dissolved			97		%		80-120	22-SEP-11
Bismuth (Bi)-Dissolved			103		%		80-120	22-SEP-11
Boron (B)-Dissolved			97		%		80-120	22-SEP-11
Cadmium (Cd)-Dissolved			102		%		80-120	22-SEP-11
Calcium (Ca)-Dissolved			101		%		80-120	22-SEP-11
Cesium (Cs)-Dissolved			99		%		80-120	22-SEP-11
Chromium (Cr)-Dissolved			101		%		80-120	22-SEP-11
Cobalt (Co)-Dissolved			103		%		80-120	22-SEP-11
Copper (Cu)-Dissolved			100		%		80-120	22-SEP-11
Iron (Fe)-Dissolved			101		%		80-120	22-SEP-11
Lead (Pb)-Dissolved			98		%		80-120	22-SEP-11
Lithium (Li)-Dissolved			99		%		80-120	22-SEP-11
Magnesium (Mg)-Dissolved			99		%		80-120	22-SEP-11
Manganese (Mn)-Dissolved			101		%		80-120	22-SEP-11
Molybdenum (Mo)-Dissolved			102		%		80-120	22-SEP-11
Nickel (Ni)-Dissolved			100		%		80-120	22-SEP-11
Phosphorus (P)-Dissolved			102		%		80-120	22-SEP-11
Potassium (K)-Dissolved			101		%		80-120	22-SEP-11



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2256750							
WG1354751-2 LCS								
Rubidium (Rb)-Dissolved			101		%		80-120	22-SEP-11
Selenium (Se)-Dissolved			101		%		80-120	22-SEP-11
Silicon (Si)-Dissolved			103		%		80-120	22-SEP-11
Silver (Ag)-Dissolved			106		%		80-120	22-SEP-11
Sodium (Na)-Dissolved			102		%		80-120	22-SEP-11
Strontium (Sr)-Dissolved			100		%		80-120	22-SEP-11
Tellurium (Te)-Dissolved			109		%		80-120	22-SEP-11
Thallium (Tl)-Dissolved			102		%		80-120	22-SEP-11
Thorium (Th)-Dissolved			99		%		80-120	22-SEP-11
Tin (Sn)-Dissolved			101		%		80-120	22-SEP-11
Titanium (Ti)-Dissolved			101		%		80-120	22-SEP-11
Tungsten (W)-Dissolved			99		%		80-120	22-SEP-11
Uranium (U)-Dissolved			101		%		80-120	22-SEP-11
Vanadium (V)-Dissolved			102		%		80-120	22-SEP-11
Zinc (Zn)-Dissolved			100		%		80-120	22-SEP-11
Zirconium (Zr)-Dissolved			99		%		80-120	22-SEP-11
WG1354751-1 MB								
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.02	22-SEP-11
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.001	22-SEP-11
Arsenic (As)-Dissolved			<0.00020		mg/L		0.001	22-SEP-11
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0005	22-SEP-11
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.001	22-SEP-11
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0005	22-SEP-11
Boron (B)-Dissolved			<0.010		mg/L		0.03	22-SEP-11
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.0002	22-SEP-11
Calcium (Ca)-Dissolved			<0.050		mg/L		0.2	22-SEP-11
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0005	22-SEP-11
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	22-SEP-11
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0005	22-SEP-11
Copper (Cu)-Dissolved			<0.00020		mg/L		0.002	22-SEP-11
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	22-SEP-11
Lead (Pb)-Dissolved			<0.000090		mg/L		0.001	22-SEP-11
Lithium (Li)-Dissolved			<0.0020		mg/L		0.01	22-SEP-11
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.05	22-SEP-11



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2256750							
WG1354751-1	MB							
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.001	22-SEP-11
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0005	22-SEP-11
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.002	22-SEP-11
Phosphorus (P)-Dissolved			<0.10		mg/L		0.5	22-SEP-11
Potassium (K)-Dissolved			<0.020		mg/L		0.1	22-SEP-11
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0005	22-SEP-11
Selenium (Se)-Dissolved			<0.0010		mg/L		0.005	22-SEP-11
Silicon (Si)-Dissolved			<0.050		mg/L		0.3	22-SEP-11
Silver (Ag)-Dissolved			<0.00010		mg/L		0.001	22-SEP-11
Sodium (Na)-Dissolved			<0.020		mg/L		0.05	22-SEP-11
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0005	22-SEP-11
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.001	22-SEP-11
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.005	22-SEP-11
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	22-SEP-11
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0006	22-SEP-11
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.001	22-SEP-11
Tungsten (W)-Dissolved			<0.00020		mg/L		0.002	22-SEP-11
Uranium (U)-Dissolved			<0.00010		mg/L		0.0005	22-SEP-11
Vanadium (V)-Dissolved			<0.00020		mg/L		0.002	22-SEP-11
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.02	22-SEP-11
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.001	22-SEP-11
MET-T-L-MS-WP		Water						
Batch	R2254443							
WG1351616-4	DUP	WG1351616-3						
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Arsenic (As)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Boron (B)-Total		<0.010	0.011	RPD-NA	mg/L	N/A	400	19-SEP-11
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	400	19-SEP-11
Calcium (Ca)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	19-SEP-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	19-SEP-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	19-SEP-11



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2254443							
WG1351616-4	DUP	WG1351616-3						
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Copper (Cu)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Iron (Fe)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	400	19-SEP-11
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	400	19-SEP-11
Lithium (Li)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	19-SEP-11
Magnesium (Mg)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	400	19-SEP-11
Manganese (Mn)-Total		<0.00030	<0.00030	RPD-NA	mg/L	N/A	400	19-SEP-11
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	19-SEP-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	19-SEP-11
Potassium (K)-Total		<0.020	<0.020	RPD-NA	mg/L	N/A	400	19-SEP-11
Rubidium (Rb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	19-SEP-11
Silicon (Si)-Total		<0.050	<0.050	RPD-NA	mg/L	N/A	400	19-SEP-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	19-SEP-11
Sodium (Na)-Total		<0.030	<0.030	RPD-NA	mg/L	N/A	400	19-SEP-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	19-SEP-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	19-SEP-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	19-SEP-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	19-SEP-11
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	19-SEP-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	19-SEP-11
WG1351616-6	DUP	WG1351616-5						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	19-SEP-11
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Arsenic (As)-Total		0.00284	0.00306		mg/L	7.4	20	19-SEP-11
Barium (Ba)-Total		0.00510	0.00502		mg/L	1.7	20	19-SEP-11
Beryllium (Be)-Total		0.00031	0.00028		mg/L	10	400	19-SEP-11
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Boron (B)-Total		2.60	2.38		mg/L	9.0	20	19-SEP-11
Cadmium (Cd)-Total		0.000018	0.000017		mg/L	5.7	400	19-SEP-11



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R2254443							
WG1351616-6	DUP	WG1351616-5						
Calcium (Ca)-Total		50.6	51.6		mg/L	2.0	20	19-SEP-11
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	19-SEP-11
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	19-SEP-11
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Copper (Cu)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Iron (Fe)-Total		0.20	0.20		mg/L	0.89	400	19-SEP-11
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	400	19-SEP-11
Lithium (Li)-Total		0.295	0.287		mg/L	2.8	20	19-SEP-11
Magnesium (Mg)-Total		16.3	16.6		mg/L	1.3	20	19-SEP-11
Manganese (Mn)-Total		0.0809	0.0815		mg/L	0.77	20	19-SEP-11
Molybdenum (Mo)-Total		0.00991	0.00945		mg/L	4.8	20	19-SEP-11
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	400	19-SEP-11
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	400	19-SEP-11
Potassium (K)-Total		9.40	9.67		mg/L	2.9	20	19-SEP-11
Rubidium (Rb)-Total		0.00685	0.00711		mg/L	3.8	20	19-SEP-11
Silicon (Si)-Total		12.0	11.6		mg/L	3.3	20	19-SEP-11
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	19-SEP-11
Sodium (Na)-Total		1270	1220		mg/L	3.9	20	19-SEP-11
Strontium (Sr)-Total		1.16	1.14		mg/L	2.4	20	19-SEP-11
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	19-SEP-11
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	25	19-SEP-11
Titanium (Ti)-Total		0.00466	0.00464		mg/L	0.56	20	19-SEP-11
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	400	19-SEP-11
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	400	19-SEP-11
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	400	19-SEP-11
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	400	19-SEP-11
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	400	19-SEP-11
WG1351616-2	LCS							
Aluminum (Al)-Total			102		%		80-120	19-SEP-11
Antimony (Sb)-Total			103		%		80-120	19-SEP-11
Arsenic (As)-Total			98		%		80-120	19-SEP-11
Barium (Ba)-Total			100		%		80-120	19-SEP-11



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2254443							
WG1351616-2	LCS							
Beryllium (Be)-Total			100		%		80-120	19-SEP-11
Bismuth (Bi)-Total			99		%		80-120	19-SEP-11
Boron (B)-Total			99		%		80-120	19-SEP-11
Cadmium (Cd)-Total			101		%		80-120	19-SEP-11
Calcium (Ca)-Total			102		%		80-120	19-SEP-11
Cesium (Cs)-Total			96		%		80-120	19-SEP-11
Chromium (Cr)-Total			97		%		80-120	19-SEP-11
Cobalt (Co)-Total			99		%		80-120	19-SEP-11
Copper (Cu)-Total			101		%		80-120	19-SEP-11
Iron (Fe)-Total			99		%		80-120	19-SEP-11
Lead (Pb)-Total			96		%		80-120	19-SEP-11
Lithium (Li)-Total			106		%		80-120	19-SEP-11
Magnesium (Mg)-Total			102		%		80-120	19-SEP-11
Manganese (Mn)-Total			101		%		80-120	19-SEP-11
Molybdenum (Mo)-Total			103		%		80-120	19-SEP-11
Nickel (Ni)-Total			97		%		80-120	19-SEP-11
Phosphorus (P)-Total			104		%		80-120	19-SEP-11
Potassium (K)-Total			100		%		80-120	19-SEP-11
Rubidium (Rb)-Total			103		%		80-120	19-SEP-11
Selenium (Se)-Total			97		%		80-120	19-SEP-11
Silicon (Si)-Total			115		%		80-120	19-SEP-11
Silver (Ag)-Total			112		%		80-120	19-SEP-11
Sodium (Na)-Total			101		%		80-120	19-SEP-11
Strontium (Sr)-Total			105		%		80-120	19-SEP-11
Tellurium (Te)-Total			105		%		80-120	19-SEP-11
Thallium (Tl)-Total			101		%		80-120	19-SEP-11
Thorium (Th)-Total			99		%		70-130	19-SEP-11
Tin (Sn)-Total			105		%		80-120	19-SEP-11
Titanium (Ti)-Total			103		%		80-120	19-SEP-11
Tungsten (W)-Total			101		%		80-120	19-SEP-11
Uranium (U)-Total			98		%		80-120	19-SEP-11
Vanadium (V)-Total			100		%		80-120	19-SEP-11
Zinc (Zn)-Total			97		%		80-120	19-SEP-11



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2254443							
WG1351616-2	LCS							
Zirconium (Zr)-Total			106		%		80-120	19-SEP-11
WG1351616-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.02	19-SEP-11
Antimony (Sb)-Total			<0.00020		mg/L		0.001	19-SEP-11
Arsenic (As)-Total			<0.00020		mg/L		0.001	19-SEP-11
Barium (Ba)-Total			<0.00020		mg/L		0.0005	19-SEP-11
Beryllium (Be)-Total			<0.00020		mg/L		0.001	19-SEP-11
Bismuth (Bi)-Total			<0.00020		mg/L		0.0005	19-SEP-11
Boron (B)-Total			<0.010		mg/L		0.03	19-SEP-11
Cadmium (Cd)-Total			<0.000010		mg/L		0.0002	19-SEP-11
Calcium (Ca)-Total			<0.10		mg/L		0.2	19-SEP-11
Cesium (Cs)-Total			<0.00010		mg/L		0.0005	19-SEP-11
Chromium (Cr)-Total			<0.0010		mg/L		0.002	19-SEP-11
Cobalt (Co)-Total			<0.00020		mg/L		0.0005	19-SEP-11
Copper (Cu)-Total			<0.00020		mg/L		0.002	19-SEP-11
Iron (Fe)-Total			<0.10		mg/L		0.1	19-SEP-11
Lead (Pb)-Total			<0.000090		mg/L		0.001	19-SEP-11
Lithium (Li)-Total			<0.0020		mg/L		0.002	19-SEP-11
Magnesium (Mg)-Total			<0.010		mg/L		0.05	19-SEP-11
Manganese (Mn)-Total			<0.00030		mg/L		0.001	19-SEP-11
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0005	19-SEP-11
Nickel (Ni)-Total			<0.0020		mg/L		0.002	19-SEP-11
Phosphorus (P)-Total			<0.20		mg/L		0.5	19-SEP-11
Potassium (K)-Total			<0.020		mg/L		0.1	19-SEP-11
Rubidium (Rb)-Total			<0.00020		mg/L		0.0005	19-SEP-11
Selenium (Se)-Total			<0.0010		mg/L		0.005	19-SEP-11
Silicon (Si)-Total			<0.050		mg/L		0.3	19-SEP-11
Silver (Ag)-Total			<0.00010		mg/L		0.001	19-SEP-11
Sodium (Na)-Total			<0.030		mg/L		0.05	19-SEP-11
Strontium (Sr)-Total			<0.00010		mg/L		0.0005	19-SEP-11
Tellurium (Te)-Total			<0.00020		mg/L		0.001	19-SEP-11
Thallium (Tl)-Total			<0.00010		mg/L		0.005	19-SEP-11
Thorium (Th)-Total			<0.00010		mg/L		0.0001	19-SEP-11
Tin (Sn)-Total			<0.00020		mg/L		0.0006	19-SEP-11



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2254443							
WG1351616-1 MB								
Titanium (Ti)-Total			<0.00020		mg/L		0.001	19-SEP-11
Tungsten (W)-Total			<0.0010		mg/L		0.002	19-SEP-11
Uranium (U)-Total			<0.00010		mg/L		0.0005	19-SEP-11
Vanadium (V)-Total			<0.00020		mg/L		0.002	19-SEP-11
Zinc (Zn)-Total			<0.0050		mg/L		0.02	19-SEP-11
Zirconium (Zr)-Total			<0.00040		mg/L		0.001	19-SEP-11
N-TOTKJ-WP		Water						
Batch	R2253763							
WG1351499-1 CVS								
Total Kjeldahl Nitrogen			101		%		90-110	19-SEP-11
WG1350233-4 DUP	L1058099-1							
Total Kjeldahl Nitrogen	0.43	0.46			mg/L	6.2	20	19-SEP-11
WG1350233-6 DUP	L1058517-4							
Total Kjeldahl Nitrogen	0.67	0.72			mg/L	6.6	20	19-SEP-11
WG1350233-2 LCS								
Total Kjeldahl Nitrogen			99		%		75-125	19-SEP-11
WG1350233-1 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	19-SEP-11
WG1350233-3 MS	L1058099-1							
Total Kjeldahl Nitrogen			107		%		70-130	19-SEP-11
WG1350233-5 MS	L1058517-4							
Total Kjeldahl Nitrogen			107		%		70-130	19-SEP-11
NH3-COL-WP		Water						
Batch	R2256002							
WG1353940-3 DUP	L1058663-1							
Ammonia as N	0.270	0.271			mg/L	0.38	20	21-SEP-11
WG1353940-5 DUP	L1061510-1							
Ammonia as N	392	390		DLA	mg/L	0.43	20	22-SEP-11
WG1353940-2 LCS								
Ammonia as N			103		%		85-115	21-SEP-11
WG1353940-1 MB								
Ammonia as N			<0.050		mg/L		0.05	21-SEP-11
WG1353940-4 MS	L1057868-16							
Ammonia as N			101		%		75-125	21-SEP-11
WG1353940-6 MS	L1060627-3							
Ammonia as N			107		%		75-125	22-SEP-11



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-IC-WP		Water						
Batch	R2254232							
WG1351907-3	DUP	L1058213-4						
Nitrite-N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	15-SEP-11
WG1351907-2	LCS							
Nitrite-N			103		%		85-115	15-SEP-11
WG1351907-1	MB							
Nitrite-N			<0.050		mg/L		0.05	15-SEP-11
WG1351907-4	MS	L1058213-4						
Nitrite-N			106		%		75-125	15-SEP-11
NO3-IC-WP		Water						
Batch	R2254232							
WG1351907-3	DUP	L1058213-4						
Nitrate-N		2.90	2.90		mg/L	0.12	20	15-SEP-11
WG1351907-2	LCS							
Nitrate-N			100		%		85-115	15-SEP-11
WG1351907-1	MB							
Nitrate-N			<0.050		mg/L		0.05	15-SEP-11
WG1351907-4	MS	L1058213-4						
Nitrate-N			N/A	MS-B	%		-	15-SEP-11
P-T-COL-WP		Water						
Batch	R2253052							
WG1349969-3	DUP	L1058516-1						
Phosphorus (P)-Total		0.282	0.215		mg/L	4.1	20	16-SEP-11
WG1349969-4	DUP	L1058637-2						
Phosphorus (P)-Total		0.144	0.140		mg/L	2.8	20	16-SEP-11
WG1349969-7	DUP	L1058834-1						
Phosphorus (P)-Total		0.046	0.048		mg/L	5.8	20	16-SEP-11
WG1349969-2	LCS							
Phosphorus (P)-Total			90		%		80-120	16-SEP-11
WG1349969-1	MB							
Phosphorus (P)-Total			<0.010		mg/L		0.01	16-SEP-11
WG1349969-6	MS	L1058623-2						
Phosphorus (P)-Total			93		%		70-130	16-SEP-11
WG1349969-8	MS	L1058833-1						
Phosphorus (P)-Total			81		%		70-130	16-SEP-11
PH-WP	Water							



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WP		Water						
Batch	R2252511							
WG1350172-5	DUP	L1058858-3						
pH		8.45	8.47	J	pH units	0.02	0.2	15-SEP-11
WG1350172-6	DUP	L1058921-1						
pH		8.45	8.46	J	pH units	0.01	0.2	15-SEP-11
WG1350172-7	DUP	L1058765-1						
pH		6.55	6.57	J	pH units	0.02	0.2	15-SEP-11
WG1350172-2	LCS							
pH			7.40		pH units		7.3-7.5	15-SEP-11
SIO2-L-COL-WP		Water						
Batch	R2252970							
WG1350602-5	DUP	L1053996-1						
Silica, Reactive (as SiO2)		19.4	19.3		mg/L	0.44	20	16-SEP-11
WG1350602-6	DUP	L1057635-7						
Silica, Reactive (as SiO2)		8.75	8.84		mg/L	1.1	20	16-SEP-11
WG1350602-2	LCS							
Silica, Reactive (as SiO2)			102		%		85-115	16-SEP-11
WG1350602-1	MB							
Silica, Reactive (as SiO2)			<0.0050		mg/L		0.005	16-SEP-11
WG1350602-3	MS	L1058637-5						
Silica, Reactive (as SiO2)			110		%		75-125	16-SEP-11
SO4-IC-WP		Water						
Batch	R2254232							
WG1351907-3	DUP	L1058213-4						
Sulfate		490	489		mg/L	0.22	20	15-SEP-11
WG1351907-2	LCS							
Sulfate			104		%		85-115	15-SEP-11
WG1351907-1	MB							
Sulfate			<0.50		mg/L		0.5	15-SEP-11
WG1351907-4	MS	L1058213-4						
Sulfate			N/A	MS-B	%		-	15-SEP-11
SOLIDS-TDS-WP		Water						
Batch	R2256947							
WG1353990-2	CVS							
Total Dissolved Solids			99		%		85-115	22-SEP-11
WG1353990-3	DUP	L1058213-6						
Total Dissolved Solids		882	888		mg/L	0.68	20	22-SEP-11
WG1353990-6	DUP	L1061770-1						



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TDS-WP								
	Water							
Batch	R2256947							
WG1353990-6	DUP	L1061770-1						
Total Dissolved Solids		1740	1810		mg/L	3.9	20	22-SEP-11
WG1353990-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	22-SEP-11
SOLIDS-TOTSUS-WP								
	Water							
Batch	R2256947							
WG1353990-2	CVS							
Total Suspended Solids			100		%		85-115	22-SEP-11
WG1353990-4	DUP	L1061405-1						
Total Suspended Solids		14.0	15.0		mg/L	6.9	400	22-SEP-11
WG1353990-5	DUP	L1061753-1						
Total Suspended Solids		98.0	102		mg/L	4.0	20	22-SEP-11
WG1353990-6	DUP	L1061770-1						
Total Suspended Solids		380	390		mg/L	2.6	20	22-SEP-11
WG1353990-1	MB							
Total Suspended Solids			<5.0		mg/L		5	22-SEP-11
TURBIDITY-WP								
	Water							
Batch	R2252540							
WG1350240-3	DUP	L1057967-4						
Turbidity		26.5	26.4		NTU	0.38	15	15-SEP-11
WG1350240-2	LCS							
Turbidity			96		%		85-115	15-SEP-11
WG1350240-1	MB							
Turbidity			<0.10		NTU		0.1	15-SEP-11

Quality Control Report

Workorder: L1058637

Report Date: 04-OCT-11

Client: AECOM Canada Ltd. (Winnipeg)
99 Commerce Drive
Winnipeg MB R3P 0Y7
Contact: Clifton Samoiloff

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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
DLA	Detection Limit Adjusted For required dilution
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L1058637

Report Date: 04-OCT-11

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

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Contact: Clifton Samoiloff

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Total Dissolved Solids							
	1	13-SEP-11 09:01	22-SEP-11 10:10	7	9	days	EHT
	2	13-SEP-11 12:08	22-SEP-11 10:10	7	9	days	EHT
	3	13-SEP-11 15:57	22-SEP-11 10:10	7	9	days	EHT
	4	13-SEP-11 14:02	22-SEP-11 10:10	7	9	days	EHT
	5	13-SEP-11	22-SEP-11 10:10	7	9	days	EHT
Total Suspended Solids							
	1	13-SEP-11 09:01	22-SEP-11 10:10	7	9	days	EHT
	2	13-SEP-11 12:08	22-SEP-11 10:10	7	9	days	EHT
	3	13-SEP-11 15:57	22-SEP-11 10:10	7	9	days	EHT
	4	13-SEP-11 14:02	22-SEP-11 10:10	7	9	days	EHT
	5	13-SEP-11	22-SEP-11 10:10	7	9	days	EHT
Turbidity							
	1	13-SEP-11 09:01	15-SEP-11 09:56	48	49	hours	EHTR
pH							
	1	13-SEP-11 09:01	15-SEP-11 08:06	0.25	47	hours	EHTR-FM
	2	13-SEP-11 12:08	15-SEP-11 08:06	0.25	44	hours	EHTR-FM
	3	13-SEP-11 15:57	15-SEP-11 08:06	0.25	40	hours	EHTR-FM
	4	13-SEP-11 14:02	15-SEP-11 08:06	0.25	42	hours	EHTR-FM
	5	13-SEP-11	15-SEP-11 08:06	0.25	44	hours	EHTR-FM
Anions and Nutrients							
Bromide							
	1	13-SEP-11 09:01	15-SEP-11 09:57	48	49	hours	EHTR
Colour, True							
	1	13-SEP-11 09:01	15-SEP-11 15:47	48	55	hours	EHTR
	2	13-SEP-11 12:08	15-SEP-11 15:47	48	52	hours	EHTL
	4	13-SEP-11 14:02	15-SEP-11 15:47	48	50	hours	EHTL
	5	13-SEP-11	15-SEP-11 15:47	48	52	hours	EHTL
Nitrate as N							
	1	13-SEP-11 09:01	15-SEP-11 16:15	48	55	hours	EHTR
	2	13-SEP-11 12:08	15-SEP-11 16:15	48	52	hours	EHTL
	4	13-SEP-11 14:02	15-SEP-11 16:15	48	50	hours	EHTL
	5	13-SEP-11	15-SEP-11 16:15	48	52	hours	EHTL
Nitrite as N							
	1	13-SEP-11 09:01	15-SEP-11 16:15	48	55	hours	EHTR
	2	13-SEP-11 12:08	15-SEP-11 16:15	48	52	hours	EHTL
	4	13-SEP-11 14:02	15-SEP-11 16:15	48	50	hours	EHTL
	5	13-SEP-11	15-SEP-11 16:15	48	52	hours	EHTL
Phosphorus, Total							
	1	13-SEP-11 09:01	15-SEP-11 17:23	48	56	hours	EHTR
	2	13-SEP-11 12:08	15-SEP-11 17:23	48	53	hours	EHTL
	3	13-SEP-11 15:57	15-SEP-11 17:23	48	49	hours	EHTL
	4	13-SEP-11 14:02	15-SEP-11 17:23	48	51	hours	EHTL
	5	13-SEP-11	15-SEP-11 17:23	48	53	hours	EHTL

Legend & Qualifier Definitions:

Quality Control Report

Workorder: L1058637

Report Date: 04-OCT-11

Client: AECOM Canada Ltd. (Winnipeg)
99 Commerce Drive
Winnipeg MB R3P 0Y7

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Contact: Clifton Samoiloff

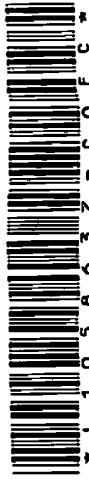
EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1058637 were received on 15-SEP-11 09:00.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



ALS Environmental
 Report To
 Company: AECOM-W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone: _____
 Fax: _____

at / Distribution
 PDF Excel Digital Fax
 Email 1: cliff.samoiloff@aecom.com
 Email 2: shawna.kiantanson@aecom.com
 Email 3: mark.hadfield@aecom.com
 Client / Project Information
 Job #: 60213483-300
 PO / AFE:
 LSD:
 Quote #: Q24534
 ALS Contact: Christine Herrod
 Date: 13 Sep -11
 Sampler: Time (hh:mm) 9:01
 Sample Type: water

Sample #	Work Order # (lab use only)	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Chlorophylla / Pheophytin	Acidity, Colour, Turbidity	Anions, Br, silica, ph, ec, Alk	NH3, TKN, PT	CBOD	Solids (TSS, TDS)	Metals & Hg - Total	Metals & Hg - Dissolved	TOC, DOC	Number of Containers
		TED-01	13 Sep -11	9:01	water	X	X	X	X	X	X	X	X	X	6
		UCI-01		12:08		X	X	X	X	X	X	X	X	X	6
		GHC-01		15:57		X	X	X	X	X	X	X	X	X	6
		THC-01		14:02		X	X	X	X	X	X	X	X	X	6
		TRB-01	13 Sep 11												

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / 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 provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: *[Signature]* Date: 900 Time: 1550
 Received by: *[Signature]* Date: 900 Time: 1550
 Temperature: _____ °C

SHIPMENT RECEIPT (lab use only) SHIPMENT VERIFICATION (lab use only)
 Observations: Yes / No ?
 If Yes add SIF



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 19-SEP-11
Report Date: 06-OCT-11 15:07 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1060044
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-300
C of C Numbers:
Legal Site Desc:

Gail Hill
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1060044-1 ANCO2							
Sampled By: CLIENT on 17-SEP-11 @ 10:00							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	17.2		0.50	mg/L		19-SEP-11	R2255553
Fluoride							
Fluoride	0.24		0.10	mg/L		19-SEP-11	R2255553
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		19-SEP-11	R2255553
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		19-SEP-11	R2255553
Sulfate							
Sulfate	178		0.50	mg/L		19-SEP-11	R2255553
Miscellaneous Parameters							
Acidity (as CaCO3)	2.8		1.0	mg/L		21-SEP-11	R2256906
Ammonia as N	<0.050		0.050	mg/L		29-SEP-11	R2260877
Bromide (Br)	<0.10		0.10	mg/L		19-SEP-11	R2255553
BOD Carbonaceous	1.2		1.0	mg/L	19-SEP-11	24-SEP-11	R2257791
Colour, True	7.5		5.0	CU		19-SEP-11	R2254446
Dissolved Organic Carbon	10.3		1.0	mg/L		21-SEP-11	R2255160
Hardness (as CaCO3)	256		0.20	mg/L		28-SEP-11	
Hardness (as CaCO3)	221		0.30	mg/L		26-SEP-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	05-OCT-11	05-OCT-11	R2264510
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	30-SEP-11	30-SEP-11	R2263097
Nitrate and Nitrite as N	<0.071		0.071	mg/L		19-SEP-11	
Phosphorus (P)-Total	0.017		0.010	mg/L		20-SEP-11	R2254917
Silica, Reactive (as SiO2)	0.859		0.0050	mg/L		24-SEP-11	R2258513
Total Dissolved Solids	344		5.0	mg/L		26-SEP-11	R2258740
Total Kjeldahl Nitrogen	0.71		0.20	mg/L	19-SEP-11	21-SEP-11	R2255224
Total Organic Carbon	11.9		1.0	mg/L		20-SEP-11	R2255160
Total Suspended Solids	7.0		5.0	mg/L		26-SEP-11	R2258740
Turbidity	6.26		0.10	NTU		20-SEP-11	R2255191
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.180		0.0050	mg/L	22-SEP-11	23-SEP-11	R2257881
Antimony (Sb)-Total	0.00682		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Arsenic (As)-Total	0.00288		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Barium (Ba)-Total	0.0252		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Boron (B)-Total	0.023		0.010	mg/L	22-SEP-11	23-SEP-11	R2257881
Cadmium (Cd)-Total	0.000028		0.000010	mg/L	22-SEP-11	23-SEP-11	R2257881
Calcium (Ca)-Total	73.3		0.10	mg/L	22-SEP-11	23-SEP-11	R2257881
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	22-SEP-11	23-SEP-11	R2257881
Cobalt (Co)-Total	0.00028		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Copper (Cu)-Total	0.00256		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Iron (Fe)-Total	0.28		0.10	mg/L	22-SEP-11	23-SEP-11	R2257881
Lead (Pb)-Total	0.000244		0.000090	mg/L	22-SEP-11	23-SEP-11	R2257881
Lithium (Li)-Total	0.0061		0.0020	mg/L	22-SEP-11	23-SEP-11	R2257881
Magnesium (Mg)-Total	9.24		0.010	mg/L	22-SEP-11	23-SEP-11	R2257881
Manganese (Mn)-Total	0.0292		0.00030	mg/L	22-SEP-11	23-SEP-11	R2257881
Molybdenum (Mo)-Total	0.00075		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	22-SEP-11	23-SEP-11	R2257881

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1060044-1 ANCO2							
Sampled By: CLIENT on 17-SEP-11 @ 10:00							
Matrix: WATER							
Total Metals by ICP-MS							
Phosphorus (P)-Total	<0.20		0.20	mg/L	22-SEP-11	23-SEP-11	R2257881
Potassium (K)-Total	6.46		0.020	mg/L	22-SEP-11	23-SEP-11	R2257881
Rubidium (Rb)-Total	0.00424		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Selenium (Se)-Total	<0.0010		0.0010	mg/L	22-SEP-11	23-SEP-11	R2257881
Silicon (Si)-Total	0.825		0.050	mg/L	22-SEP-11	23-SEP-11	R2257881
Silver (Ag)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Sodium (Na)-Total	8.62		0.030	mg/L	22-SEP-11	23-SEP-11	R2257881
Strontium (Sr)-Total	0.192		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Thorium (Th)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Tin (Sn)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Titanium (Ti)-Total	0.00984		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Tungsten (W)-Total	<0.0010		0.0010	mg/L	22-SEP-11	23-SEP-11	R2257881
Uranium (U)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Vanadium (V)-Total	0.00063		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Zinc (Zn)-Total	0.0392		0.0050	mg/L	22-SEP-11	23-SEP-11	R2257881
Zirconium (Zr)-Total	0.00133		0.00040	mg/L	22-SEP-11	23-SEP-11	R2257881
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0027		0.0020	mg/L	19-SEP-11	23-SEP-11	R2257942
Antimony (Sb)-Dissolved	0.00755		0.00020	mg/L	19-SEP-11	23-SEP-11	R2257942
Arsenic (As)-Dissolved	0.00247		0.00020	mg/L	19-SEP-11	23-SEP-11	R2257942
Barium (Ba)-Dissolved	0.0241		0.00020	mg/L	19-SEP-11	23-SEP-11	R2257942
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	19-SEP-11	23-SEP-11	R2257942
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	19-SEP-11	23-SEP-11	R2257942
Boron (B)-Dissolved	0.023		0.010	mg/L	19-SEP-11	23-SEP-11	R2257942
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	19-SEP-11	23-SEP-11	R2257942
Calcium (Ca)-Dissolved	88.2		0.050	mg/L	19-SEP-11	27-SEP-11	R2259333
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	19-SEP-11	23-SEP-11	R2257942
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	19-SEP-11	23-SEP-11	R2257942
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	19-SEP-11	23-SEP-11	R2257942
Copper (Cu)-Dissolved	0.00140		0.00020	mg/L	19-SEP-11	23-SEP-11	R2257942
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	19-SEP-11	23-SEP-11	R2257942
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	19-SEP-11	23-SEP-11	R2257942
Lithium (Li)-Dissolved	0.0067		0.0020	mg/L	19-SEP-11	23-SEP-11	R2257942
Magnesium (Mg)-Dissolved	8.59		0.010	mg/L	19-SEP-11	23-SEP-11	R2257942
Manganese (Mn)-Dissolved	0.0107		0.00010	mg/L	19-SEP-11	23-SEP-11	R2257942
Molybdenum (Mo)-Dissolved	0.00082		0.00010	mg/L	19-SEP-11	23-SEP-11	R2257942
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	19-SEP-11	23-SEP-11	R2257942
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	19-SEP-11	23-SEP-11	R2257942
Potassium (K)-Dissolved	6.07		0.020	mg/L	19-SEP-11	23-SEP-11	R2257942
Rubidium (Rb)-Dissolved	0.00383		0.00020	mg/L	19-SEP-11	23-SEP-11	R2257942
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	19-SEP-11	23-SEP-11	R2257942
Silicon (Si)-Dissolved	0.435		0.050	mg/L	19-SEP-11	23-SEP-11	R2257942
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	19-SEP-11	23-SEP-11	R2257942
Sodium (Na)-Dissolved	10.1		0.020	mg/L	19-SEP-11	23-SEP-11	R2257942
Strontium (Sr)-Dissolved	0.186		0.00010	mg/L	19-SEP-11	23-SEP-11	R2257942
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	19-SEP-11	23-SEP-11	R2257942
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	19-SEP-11	23-SEP-11	R2257942
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	19-SEP-11	23-SEP-11	R2257942
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	19-SEP-11	23-SEP-11	R2257942

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1060044-1 ANCO2							
Sampled By: CLIENT on 17-SEP-11 @ 10:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Titanium (Ti)-Dissolved	0.00064		0.00020	mg/L	19-SEP-11	23-SEP-11	R2257942
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	19-SEP-11	23-SEP-11	R2257942
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	19-SEP-11	23-SEP-11	R2257942
Vanadium (V)-Dissolved	0.00046		0.00020	mg/L	19-SEP-11	23-SEP-11	R2257942
Zinc (Zn)-Dissolved	0.0298		0.0020	mg/L	19-SEP-11	23-SEP-11	R2257942
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	19-SEP-11	23-SEP-11	R2257942
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	1.67		0.10	ug/L	22-SEP-11	23-SEP-11	R2256760
Phaeophytin a	1.30		0.10	ug/L	22-SEP-11	23-SEP-11	R2256760
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	55.1		1.0	mg/L		19-SEP-11	R2254119
Bicarbonate (HCO3)	67.2		2.0	mg/L		19-SEP-11	R2254119
Carbonate (CO3)	<0.60		0.60	mg/L		19-SEP-11	R2254119
Hydroxide (OH)	<0.40		0.40	mg/L		19-SEP-11	R2254119
Conductivity							
Conductivity	503		0.40	umhos/cm		19-SEP-11	R2254119
pH							
pH	7.39		0.10	pH units		19-SEP-11	R2254119

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Qualifiers for Individual Samples Listed:

Sample Number	Client ID	Qualifier	Description
L1060044-1	ANCO2	SFPL	Sample was Filtered and Preserved at the laboratory

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACY-L-8.3-PCT-WP	Water	Acidity	APHA 2310 B
Acidity is measured using auto-titration with sodium hydroxide to an endpoint of pH 8.3			
ALK-TOT-WP	Water	Alkalinity	APHA 2320B
Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically.			
BR-IC-WP	Water	Bromide	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide.			
The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved.			
CHL,PHEO-FLUORO-WP	Water	Chlorophyll a, Pheophytin by fluorometry	EPA 445.0
Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification.			
CL-IC-WP	Water	Chloride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
COLOUR-TRUE-WP	Water	Colour, True	APHA 2120C
True colour in water is analyzed by discrete analyzer using the platinum-cobalt colourimetric method. Colour is pH dependant; unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit.			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O ₂ electrode
A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis.			
EC-WP	Water	Conductivity	APHA 2510B
Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.			
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	HARDNESS CALCULATED

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	HARDNESS CALCULATED
F-IC-WP	Water	Fluoride	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
HG-D-CVAF-WP	Water	Mercury Dissolved	EPA245.7 V2.0
Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.			
HG-T-CVAF-WP	Water	Mercury Total	EPA245.7 V2.0
Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.			
MET-D-L-MS-WP	Water	Dissolved Metals by ICP-MS	U.S. EPA 200.8-DL
Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.			
MET-T-L-MS-WP	Water	Total Metals by ICP-MS	U.S. EPA 200.8-TL
Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.			
N-TOTKJ-WP	Water	Total Kjeldahl Nitrogen	Quickchem method 10-107-06-2-E Lachat
Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.			
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.			
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-WP	Water	Nitrite as N	EPA 300.1 IC
NO3-IC-WP	Water	Nitrate as N	EPA 300.1 IC
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS
This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.			
PH-WP	Water	pH	APHA 4500H
The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.			
SIO2-L-COL-WP	Water	Reactive Silica by colour	APHA 4500 SIO2
This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method.			
SO4-IC-WP	Water	Sulfate	EPA 300.1 IC
This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".			
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540C
The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature.			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540D
The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.			
TURBIDITY-WP	Water	Turbidity	APHA 2130B (modified)
Turbidity in aqueous matrices is determined by the nephelometric method.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - 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.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACY-L-8.3-PCT-WP								
	Water							
Batch	R2256906							
WG1355010-3	DUP	L1060044-1						
Acidity (as CaCO3)		2.8	2.7		mg/L	6.0	25	21-SEP-11
WG1355010-4	DUP	L1060061-1						
Acidity (as CaCO3)		1.8	1.8		mg/L	0.13	25	21-SEP-11
WG1355010-5	DUP	L1060062-5						
Acidity (as CaCO3)		1.0	1.1		mg/L	4.0	25	21-SEP-11
WG1355010-6	DUP	L1060063-7						
Acidity (as CaCO3)		1.5	1.5		mg/L	2.4	25	21-SEP-11
WG1355010-2	LCS							
Acidity (as CaCO3)			106		%		70-130	21-SEP-11
WG1355010-1	MB							
Acidity (as CaCO3)			<1.0		mg/L		1	21-SEP-11
ALK-TOT-WP								
	Water							
Batch	R2254119							
WG1351848-3	CVS							
Alkalinity, Total (as CaCO3)			103		%		85-115	19-SEP-11
WG1351848-4	DUP	L1060067-1						
Alkalinity, Total (as CaCO3)		79.9	79.7		mg/L	0.21	20	19-SEP-11
Bicarbonate (HCO3)		89.5	89.0		mg/L	0.52	25	19-SEP-11
Carbonate (CO3)		2.75	2.88		mg/L	4.7	25	19-SEP-11
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	25	19-SEP-11
BR-IC-WP								
	Water							
Batch	R2255553							
WG1353456-2	LCS							
Bromide (Br)			96		%		85-115	19-SEP-11
WG1353456-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	19-SEP-11
C-DIS-ORG-WP								
	Water							
Batch	R2255160							
WG1353005-2	CVS							
Dissolved Organic Carbon			99		%		80-120	20-SEP-11
WG1352998-2	DUP	L1060059-1						
Dissolved Organic Carbon		15.5	15.3		mg/L	1.3	20	21-SEP-11
WG1352998-1	MB							
Dissolved Organic Carbon			<1.0		mg/L		1	20-SEP-11
C-TOT-ORG-WP								
	Water							



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-ORG-WP		Water						
Batch	R2255160							
WG1353005-2	CVS							
Total Organic Carbon			99		%		80-120	20-SEP-11
WG1353005-1	MB							
Total Organic Carbon			<1.0		mg/L		1	20-SEP-11
CHL,PHEO-FLUORO-WP		Water						
Batch	R2256760							
WG1354254-1	CVS							
Chlorophyll a			83		%		65-135	23-SEP-11
WG1354254-2	CVS							
Chlorophyll a			115		%		65-135	23-SEP-11
WG1354197-2	DUP	L1059720-3						
Chlorophyll a		26.9	26.2		ug/L	2.8	35	23-SEP-11
Phaeophytin a		9.76	10.7		ug/L	9.4	35	23-SEP-11
WG1354197-3	DUP	L1060060-1						
Chlorophyll a		10.4	11.4		ug/L	8.7	35	23-SEP-11
Phaeophytin a		2.88	3.28		ug/L	13	35	23-SEP-11
WG1354197-1	MB							
Chlorophyll a			<0.10		ug/L		0.1	23-SEP-11
Phaeophytin a			<0.10		ug/L		0.1	23-SEP-11
CL-IC-WP		Water						
Batch	R2255553							
WG1353456-3	DUP	L1060115-3						
Chloride		1.58	1.58		mg/L	0.22	20	19-SEP-11
WG1353456-2	LCS							
Chloride			100		%		85-115	19-SEP-11
WG1353456-1	MB							
Chloride			<0.50		mg/L		0.5	19-SEP-11
WG1353456-4	MS	L1060115-3						
Chloride			107		%		75-125	19-SEP-11
COLOUR-TRUE-WP		Water						
Batch	R2254446							
WG1352182-3	DUP	L1060171-1						
Colour, True		25.5	25.3		CU	0.98	20	19-SEP-11
WG1352182-2	LCS							
Colour, True			100		%		85-115	19-SEP-11
WG1352182-1	MB							
Colour, True			<5.0		CU		5	19-SEP-11



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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CONSULT-BOD-CBOD-WP Water								
Batch R2257791								
WG1351552-3	DUP	L1060044-1						
BOD Carbonaceous		1.2	1.3		mg/L	7.8	400	24-SEP-11
WG1351552-2	IRM	61-GG						
BOD Carbonaceous			99		%		85-115	24-SEP-11
WG1351552-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	24-SEP-11
EC-WP Water								
Batch R2254119								
WG1351848-1	CVS							
Conductivity			96		%		90-110	19-SEP-11
WG1351848-4	DUP	L1060067-1						
Conductivity		274	273		umhos/cm	0.22	10	19-SEP-11
F-IC-WP Water								
Batch R2255553								
WG1353456-2	LCS							
Fluoride			101		%		85-115	19-SEP-11
WG1353456-1	MB							
Fluoride			<0.10		mg/L		0.1	19-SEP-11
HG-D-CVAF-WP Water								
Batch R2264510								
WG1363399-5	DUP	L1060062-2						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	05-OCT-11
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	05-OCT-11
WG1363399-2	LCS							
Mercury (Hg)-Dissolved			103		%		80-120	05-OCT-11
Mercury (Hg)-Dissolved			103		%		80-120	05-OCT-11
WG1363399-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	05-OCT-11
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	05-OCT-11
WG1363399-6	MS	L1060062-2						
Mercury (Hg)-Dissolved			107		%		70-130	05-OCT-11
Mercury (Hg)-Dissolved			107		%		70-130	05-OCT-11
HG-T-CVAF-WP Water								
Batch R2263097								
WG1361800-3	DUP	L1060044-1						
Mercury (Hg)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	30-SEP-11
WG1361800-5	DUP	L1060062-5						



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Client: AECOM Canada Ltd. (Winnipeg)
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 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
	Water							
Batch	R2263097							
WG1361800-5	DUP	L1060062-5						
Mercury (Hg)-Total		<0.000050	0.000070	RPD-NA	mg/L	N/A	20	30-SEP-11
WG1361800-2	LCS							
Mercury (Hg)-Total			100		%		80-120	30-SEP-11
WG1361800-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	30-SEP-11
WG1361800-4	MS	L1060044-1						
Mercury (Hg)-Total			93		%		70-130	30-SEP-11
WG1361800-6	MS	L1060062-5						
Mercury (Hg)-Total			85		%		70-130	30-SEP-11
MET-D-L-MS-WP								
	Water							
Batch	R2257942							
WG1356177-4	DUP	WG1356177-3						
Aluminum (Al)-Dissolved		2.03	1.99		mg/L	1.8	20	23-SEP-11
Antimony (Sb)-Dissolved		1.02	1.01		mg/L	1.2	20	23-SEP-11
Arsenic (As)-Dissolved		1.00	1.01		mg/L	0.34	20	23-SEP-11
Barium (Ba)-Dissolved		0.256	0.252		mg/L	1.3	20	23-SEP-11
Beryllium (Be)-Dissolved		0.105	0.101		mg/L	3.4	20	23-SEP-11
Bismuth (Bi)-Dissolved		1.02	1.03		mg/L	0.20	20	23-SEP-11
Boron (B)-Dissolved		1.03	1.00		mg/L	2.9	20	23-SEP-11
Cadmium (Cd)-Dissolved		0.103	0.106		mg/L	2.7	20	23-SEP-11
Cesium (Cs)-Dissolved		0.0493	0.0489		mg/L	0.70	20	23-SEP-11
Chromium (Cr)-Dissolved		0.249	0.251		mg/L	1.1	20	23-SEP-11
Cobalt (Co)-Dissolved		0.257	0.256		mg/L	0.20	20	23-SEP-11
Copper (Cu)-Dissolved		0.250	0.252		mg/L	1.1	20	23-SEP-11
Iron (Fe)-Dissolved		1.00	1.01		mg/L	0.49	20	23-SEP-11
Lead (Pb)-Dissolved		0.514	0.503		mg/L	2.3	20	23-SEP-11
Lithium (Li)-Dissolved		0.263	0.254		mg/L	3.7	20	23-SEP-11
Magnesium (Mg)-Dissolved		50.5	50.9		mg/L	0.73	20	23-SEP-11
Manganese (Mn)-Dissolved		0.247	0.252		mg/L	2.3	20	23-SEP-11
Molybdenum (Mo)-Dissolved		0.255	0.261		mg/L	2.2	20	23-SEP-11
Nickel (Ni)-Dissolved		0.513	0.520		mg/L	1.4	20	23-SEP-11
Phosphorus (P)-Dissolved		2.61	2.67		mg/L	2.4	20	23-SEP-11
Potassium (K)-Dissolved		51.8	50.9		mg/L	1.8	20	23-SEP-11
Rubidium (Rb)-Dissolved		0.101	0.103		mg/L	2.2	20	23-SEP-11



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Client: AECOM Canada Ltd. (Winnipeg)
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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R2257942							
WG1356177-4	DUP	WG1356177-3						
Selenium (Se)-Dissolved		1.01	1.01		mg/L	0.29	20	23-SEP-11
Silicon (Si)-Dissolved		1.01	1.00		mg/L	0.38	20	23-SEP-11
Silver (Ag)-Dissolved		0.108	0.113		mg/L	4.5	20	23-SEP-11
Sodium (Na)-Dissolved		51.4	51.9		mg/L	1.1	20	23-SEP-11
Strontium (Sr)-Dissolved		0.254	0.262		mg/L	2.9	20	23-SEP-11
Tellurium (Te)-Dissolved		0.103	0.105		mg/L	1.9	20	23-SEP-11
Thallium (Tl)-Dissolved		1.04	1.03		mg/L	1.3	20	23-SEP-11
Thorium (Th)-Dissolved		0.0988	0.101		mg/L	2.2	25	23-SEP-11
Tin (Sn)-Dissolved		0.523	0.540		mg/L	3.1	20	23-SEP-11
Titanium (Ti)-Dissolved		0.252	0.258		mg/L	2.3	20	23-SEP-11
Tungsten (W)-Dissolved		0.101	0.0999		mg/L	1.0	20	23-SEP-11
Uranium (U)-Dissolved		0.00518	0.00498		mg/L	3.9	20	23-SEP-11
Vanadium (V)-Dissolved		0.511	0.519		mg/L	1.6	20	23-SEP-11
Zinc (Zn)-Dissolved		0.510	0.516		mg/L	1.2	20	23-SEP-11
Zirconium (Zr)-Dissolved		0.0994	0.103		mg/L	3.9	20	23-SEP-11
WG1356177-2	LCS							
Aluminum (Al)-Dissolved			101		%		80-120	23-SEP-11
Antimony (Sb)-Dissolved			102		%		80-120	23-SEP-11
Arsenic (As)-Dissolved			100		%		80-120	23-SEP-11
Barium (Ba)-Dissolved			102		%		80-120	23-SEP-11
Beryllium (Be)-Dissolved			105		%		80-120	23-SEP-11
Bismuth (Bi)-Dissolved			102		%		80-120	23-SEP-11
Boron (B)-Dissolved			103		%		80-120	23-SEP-11
Cadmium (Cd)-Dissolved			103		%		80-120	23-SEP-11
Cesium (Cs)-Dissolved			99		%		80-120	23-SEP-11
Chromium (Cr)-Dissolved			99		%		80-120	23-SEP-11
Cobalt (Co)-Dissolved			103		%		80-120	23-SEP-11
Copper (Cu)-Dissolved			100		%		80-120	23-SEP-11
Iron (Fe)-Dissolved			100		%		80-120	23-SEP-11
Lead (Pb)-Dissolved			103		%		80-120	23-SEP-11
Lithium (Li)-Dissolved			105		%		80-120	23-SEP-11
Magnesium (Mg)-Dissolved			101		%		80-120	23-SEP-11
Manganese (Mn)-Dissolved			99		%		80-120	23-SEP-11



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Client: AECOM Canada Ltd. (Winnipeg)
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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R2257942							
WG1356177-2	LCS							
Molybdenum (Mo)-Dissolved			102		%		80-120	23-SEP-11
Nickel (Ni)-Dissolved			103		%		80-120	23-SEP-11
Phosphorus (P)-Dissolved			104		%		80-120	23-SEP-11
Potassium (K)-Dissolved			104		%		80-120	23-SEP-11
Rubidium (Rb)-Dissolved			101		%		80-120	23-SEP-11
Selenium (Se)-Dissolved			101		%		80-120	23-SEP-11
Silicon (Si)-Dissolved			101		%		80-120	23-SEP-11
Silver (Ag)-Dissolved			108		%		80-120	23-SEP-11
Sodium (Na)-Dissolved			103		%		80-120	23-SEP-11
Strontium (Sr)-Dissolved			102		%		80-120	23-SEP-11
Tellurium (Te)-Dissolved			103		%		80-120	23-SEP-11
Thallium (Tl)-Dissolved			104		%		80-120	23-SEP-11
Thorium (Th)-Dissolved			99		%		80-120	23-SEP-11
Tin (Sn)-Dissolved			105		%		80-120	23-SEP-11
Titanium (Ti)-Dissolved			101		%		80-120	23-SEP-11
Tungsten (W)-Dissolved			101		%		80-120	23-SEP-11
Uranium (U)-Dissolved			104		%		80-120	23-SEP-11
Vanadium (V)-Dissolved			102		%		80-120	23-SEP-11
Zinc (Zn)-Dissolved			102		%		80-120	23-SEP-11
Zirconium (Zr)-Dissolved			99		%		80-120	23-SEP-11
WG1356177-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.02	23-SEP-11
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.001	23-SEP-11
Arsenic (As)-Dissolved			<0.00020		mg/L		0.001	23-SEP-11
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0005	23-SEP-11
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.001	23-SEP-11
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0005	23-SEP-11
Boron (B)-Dissolved			<0.010		mg/L		0.03	23-SEP-11
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.0002	23-SEP-11
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0005	23-SEP-11
Chromium (Cr)-Dissolved			<0.0020		mg/L		0.002	23-SEP-11
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0005	23-SEP-11
Copper (Cu)-Dissolved			<0.00020		mg/L		0.002	23-SEP-11
Iron (Fe)-Dissolved			<0.10		mg/L		0.1	23-SEP-11



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch R2257942								
WG1356177-1 MB								
Lead (Pb)-Dissolved			<0.000090		mg/L		0.001	23-SEP-11
Lithium (Li)-Dissolved			<0.0020		mg/L		0.01	23-SEP-11
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.05	23-SEP-11
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.001	23-SEP-11
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0005	23-SEP-11
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.002	23-SEP-11
Phosphorus (P)-Dissolved			<0.10		mg/L		0.5	23-SEP-11
Potassium (K)-Dissolved			<0.020		mg/L		0.1	23-SEP-11
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0005	23-SEP-11
Selenium (Se)-Dissolved			<0.0010		mg/L		0.005	23-SEP-11
Silicon (Si)-Dissolved			<0.050		mg/L		0.3	23-SEP-11
Silver (Ag)-Dissolved			<0.00010		mg/L		0.001	23-SEP-11
Sodium (Na)-Dissolved			<0.020		mg/L		0.05	23-SEP-11
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0005	23-SEP-11
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.001	23-SEP-11
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.005	23-SEP-11
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	23-SEP-11
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0006	23-SEP-11
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.001	23-SEP-11
Tungsten (W)-Dissolved			<0.00020		mg/L		0.002	23-SEP-11
Uranium (U)-Dissolved			<0.00010		mg/L		0.0005	23-SEP-11
Vanadium (V)-Dissolved			<0.00020		mg/L		0.002	23-SEP-11
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.02	23-SEP-11
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.001	23-SEP-11
MET-T-L-MS-WP		Water						
Batch R2257881								
WG1354038-2 LCS								
Aluminum (Al)-Total			95		%		80-120	22-SEP-11
Antimony (Sb)-Total			97		%		80-120	22-SEP-11
Arsenic (As)-Total			100		%		80-120	22-SEP-11
Barium (Ba)-Total			100		%		80-120	22-SEP-11
Beryllium (Be)-Total			103		%		80-120	22-SEP-11
Bismuth (Bi)-Total			98		%		80-120	22-SEP-11
Boron (B)-Total			99		%		80-120	22-SEP-11



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2257881							
WG1354038-2	LCS							
Boron (B)-Total			99		%		80-120	22-SEP-11
Cadmium (Cd)-Total			97		%		80-120	22-SEP-11
Calcium (Ca)-Total			102		%		80-120	22-SEP-11
Cesium (Cs)-Total			95		%		80-120	22-SEP-11
Chromium (Cr)-Total			95		%		80-120	22-SEP-11
Cobalt (Co)-Total			101		%		80-120	22-SEP-11
Copper (Cu)-Total			96		%		80-120	22-SEP-11
Iron (Fe)-Total			95		%		80-120	22-SEP-11
Lead (Pb)-Total			97		%		80-120	22-SEP-11
Lithium (Li)-Total			98		%		80-120	22-SEP-11
Magnesium (Mg)-Total			100		%		80-120	22-SEP-11
Manganese (Mn)-Total			95		%		80-120	22-SEP-11
Molybdenum (Mo)-Total			98		%		80-120	22-SEP-11
Nickel (Ni)-Total			97		%		80-120	22-SEP-11
Phosphorus (P)-Total			100		%		80-120	22-SEP-11
Potassium (K)-Total			98		%		80-120	22-SEP-11
Rubidium (Rb)-Total			99		%		80-120	22-SEP-11
Selenium (Se)-Total			98		%		80-120	22-SEP-11
Silicon (Si)-Total			96		%		80-120	22-SEP-11
Silver (Ag)-Total			104		%		80-120	22-SEP-11
Sodium (Na)-Total			99		%		80-120	22-SEP-11
Strontium (Sr)-Total			97		%		80-120	22-SEP-11
Tellurium (Te)-Total			99		%		80-120	22-SEP-11
Thallium (Tl)-Total			99		%		80-120	22-SEP-11
Thorium (Th)-Total			97		%		70-130	22-SEP-11
Tin (Sn)-Total			97		%		80-120	22-SEP-11
Titanium (Ti)-Total			97		%		80-120	22-SEP-11
Tungsten (W)-Total			97		%		80-120	22-SEP-11
Uranium (U)-Total			99		%		80-120	22-SEP-11
Vanadium (V)-Total			98		%		80-120	22-SEP-11
Zinc (Zn)-Total			97		%		80-120	22-SEP-11
Zirconium (Zr)-Total			100		%		80-120	22-SEP-11
WG1354038-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.02	22-SEP-11



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2257881							
WG1354038-1 MB								
Antimony (Sb)-Total			<0.00020		mg/L		0.001	22-SEP-11
Arsenic (As)-Total			<0.00020		mg/L		0.001	22-SEP-11
Barium (Ba)-Total			<0.00020		mg/L		0.0005	22-SEP-11
Beryllium (Be)-Total			<0.00020		mg/L		0.001	22-SEP-11
Bismuth (Bi)-Total			<0.00020		mg/L		0.0005	22-SEP-11
Boron (B)-Total			<0.010		mg/L		0.03	22-SEP-11
Cadmium (Cd)-Total			<0.000010		mg/L		0.0002	22-SEP-11
Calcium (Ca)-Total			<0.10		mg/L		0.2	22-SEP-11
Cesium (Cs)-Total			<0.00010		mg/L		0.0005	22-SEP-11
Chromium (Cr)-Total			<0.0010		mg/L		0.002	22-SEP-11
Cobalt (Co)-Total			<0.00020		mg/L		0.0005	22-SEP-11
Copper (Cu)-Total			<0.00020		mg/L		0.002	22-SEP-11
Iron (Fe)-Total			<0.10		mg/L		0.1	22-SEP-11
Lead (Pb)-Total			<0.000090		mg/L		0.001	22-SEP-11
Lithium (Li)-Total			<0.0020		mg/L		0.002	22-SEP-11
Magnesium (Mg)-Total			<0.010		mg/L		0.05	22-SEP-11
Manganese (Mn)-Total			<0.00030		mg/L		0.001	22-SEP-11
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0005	22-SEP-11
Nickel (Ni)-Total			<0.0020		mg/L		0.002	22-SEP-11
Phosphorus (P)-Total			<0.20		mg/L		0.5	22-SEP-11
Potassium (K)-Total			<0.020		mg/L		0.1	22-SEP-11
Rubidium (Rb)-Total			<0.00020		mg/L		0.0005	22-SEP-11
Selenium (Se)-Total			<0.0010		mg/L		0.005	22-SEP-11
Silicon (Si)-Total			<0.050		mg/L		0.3	22-SEP-11
Silver (Ag)-Total			<0.00010		mg/L		0.001	22-SEP-11
Sodium (Na)-Total			<0.030		mg/L		0.05	22-SEP-11
Strontium (Sr)-Total			<0.00010		mg/L		0.0005	22-SEP-11
Tellurium (Te)-Total			<0.00020		mg/L		0.001	22-SEP-11
Thallium (Tl)-Total			<0.00010		mg/L		0.005	22-SEP-11
Thorium (Th)-Total			<0.00010		mg/L		0.0001	22-SEP-11
Tin (Sn)-Total			<0.00020		mg/L		0.0006	22-SEP-11
Titanium (Ti)-Total			<0.00020		mg/L		0.001	22-SEP-11
Tungsten (W)-Total			<0.0010		mg/L		0.002	22-SEP-11



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R2257881							
WG1354038-1	MB							
Uranium (U)-Total			<0.00010		mg/L		0.0005	22-SEP-11
Vanadium (V)-Total			<0.00020		mg/L		0.002	22-SEP-11
Zinc (Zn)-Total			<0.0050		mg/L		0.02	22-SEP-11
Zirconium (Zr)-Total			<0.00040		mg/L		0.001	22-SEP-11
N-TOTKJ-WP		Water						
Batch	R2255224							
WG1353102-1	CVS							
Total Kjeldahl Nitrogen			95		%		90-110	21-SEP-11
WG1352408-4	DUP	L1060071-2						
Total Kjeldahl Nitrogen		1.61	1.68		mg/L	4.1	20	21-SEP-11
WG1352408-6	DUP	L1060073-3						
Total Kjeldahl Nitrogen		1.31	1.26		mg/L	3.9	20	21-SEP-11
WG1352408-2	LCS							
Total Kjeldahl Nitrogen			105		%		75-125	21-SEP-11
WG1352408-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	21-SEP-11
WG1352408-3	MS	L1060071-2						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	21-SEP-11
WG1352408-5	MS	L1060073-3						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	21-SEP-11
NH3-COL-WP		Water						
Batch	R2260877							
WG1359404-3	DUP	L1060061-1						
Ammonia as N		0.062	0.062		mg/L	0.65	20	29-SEP-11
WG1359404-5	DUP	L1062339-1						
Ammonia as N		20.9	20.9	DLA	mg/L	0.12	20	29-SEP-11
WG1359404-7	DUP	L1062578-4						
Ammonia as N		110	110	DLA	mg/L	0.13	20	29-SEP-11
WG1359404-2	LCS							
Ammonia as N			105		%		85-115	29-SEP-11
WG1359404-1	MB							
Ammonia as N			<0.050		mg/L		0.05	29-SEP-11
WG1359404-4	MS	L1060058-2						
Ammonia as N			104		%		75-125	29-SEP-11
WG1359404-6	MS	L1060062-5						
Ammonia as N			95		%		75-125	29-SEP-11



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-COL-WP								
	Water							
Batch	R2260877							
WG1359404-8	MS	L1062345-3						
Ammonia as N			106		%		75-125	29-SEP-11
NO2-IC-WP								
	Water							
Batch	R2255553							
WG1353456-3	DUP	L1060115-3						
Nitrite-N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	19-SEP-11
WG1353456-2	LCS		96		%		85-115	19-SEP-11
Nitrite-N								
WG1353456-1	MB		<0.050		mg/L		0.05	19-SEP-11
Nitrite-N								
WG1353456-4	MS	L1060115-3						
Nitrite-N			104		%		75-125	19-SEP-11
NO3-IC-WP								
	Water							
Batch	R2255553							
WG1353456-3	DUP	L1060115-3						
Nitrate-N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	19-SEP-11
WG1353456-2	LCS		100		%		85-115	19-SEP-11
Nitrate-N								
WG1353456-1	MB		<0.050		mg/L		0.05	19-SEP-11
Nitrate-N								
WG1353456-4	MS	L1060115-3						
Nitrate-N			108		%		75-125	19-SEP-11
P-T-COL-WP								
	Water							
Batch	R2254917							
WG1352018-3	DUP	L1060058-1						
Phosphorus (P)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	20-SEP-11
WG1352018-5	DUP	L1060062-3						
Phosphorus (P)-Total		0.036	0.018	J	mg/L	0.011	0.02	20-SEP-11
WG1352018-2	LCS		94		%		80-120	20-SEP-11
Phosphorus (P)-Total								
WG1352018-1	MB		<0.010		mg/L		0.01	20-SEP-11
Phosphorus (P)-Total								
WG1352018-6	MS	L1060063-2						
Phosphorus (P)-Total			91		%		70-130	20-SEP-11
WG1352018-7	MS	L1060065-1						
Phosphorus (P)-Total			85		%		70-130	20-SEP-11
WG1352018-8	MS	L1060115-1						



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-T-COL-WP Water								
Batch	R2254917							
WG1352018-8	MS	L1060115-1						
Phosphorus (P)-Total			91		%		70-130	20-SEP-11
PH-WP Water								
Batch	R2254119							
WG1351848-4	DUP	L1060067-1						
pH		8.42	8.44	J	pH units	0.02	0.2	19-SEP-11
WG1351848-2	LCS							
pH			7.41		pH units		7.3-7.5	19-SEP-11
SIO2-L-COL-WP Water								
Batch	R2258513							
WG1356848-6	DUP	L1057743-1						
Silica, Reactive (as SiO2)		0.321	0.323		mg/L	0.70	20	24-SEP-11
WG1356848-7	DUP	L1059181-1						
Silica, Reactive (as SiO2)		0.0841	0.0838		mg/L	0.32	20	24-SEP-11
WG1356848-8	DUP	L1060061-2						
Silica, Reactive (as SiO2)		4.04	4.49		mg/L	11	20	24-SEP-11
WG1356848-9	DUP	L1060065-3						
Silica, Reactive (as SiO2)		2.66	2.57		mg/L	3.6	20	24-SEP-11
WG1356848-2	LCS							
Silica, Reactive (as SiO2)			100		%		85-115	24-SEP-11
WG1356848-1	MB							
Silica, Reactive (as SiO2)			<0.0050		mg/L		0.005	24-SEP-11
WG1356848-3	MS	L1060058-1						
Silica, Reactive (as SiO2)			103		%		75-125	24-SEP-11
WG1356848-4	MS	L1060060-3						
Silica, Reactive (as SiO2)			97		%		75-125	24-SEP-11
WG1356848-5	MS	L1060063-7						
Silica, Reactive (as SiO2)			113		%		75-125	24-SEP-11
SO4-IC-WP Water								
Batch	R2255553							
WG1353456-2	LCS							
Sulfate			102		%		85-115	19-SEP-11
WG1353456-1	MB							
Sulfate			<0.50		mg/L		0.5	19-SEP-11
SOLIDS-TDS-WP Water								



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Client: AECOM Canada Ltd. (Winnipeg)
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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TDS-WP		Water						
Batch	R2258740							
WG1356052-2	CVS							
Total Dissolved Solids			100		%		85-115	26-SEP-11
WG1356052-3	DUP	L1059318-1						
Total Dissolved Solids		184	174		mg/L	5.6	20	26-SEP-11
WG1356052-4	DUP	L1060044-1						
Total Dissolved Solids		344	330		mg/L	4.2	20	26-SEP-11
WG1356052-7	DUP	L1063094-1						
Total Dissolved Solids		1390	1380		mg/L	0.72	20	26-SEP-11
WG1356052-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	26-SEP-11
SOLIDS-TOTSUS-WP		Water						
Batch	R2258740							
WG1356052-2	CVS							
Total Suspended Solids			94		%		85-115	26-SEP-11
WG1356052-3	DUP	L1059318-1						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	400	26-SEP-11
WG1356052-4	DUP	L1060044-1						
Total Suspended Solids		7.0	8.0		mg/L	13	400	26-SEP-11
WG1356052-6	DUP	L1062836-2						
Total Suspended Solids		60.0	61.4		mg/L	2.4	20	26-SEP-11
WG1356052-7	DUP	L1063094-1						
Total Suspended Solids		500	510		mg/L	2.0	20	26-SEP-11
WG1356052-1	MB							
Total Suspended Solids			<5.0		mg/L		5	26-SEP-11
TURBIDITY-WP		Water						
Batch	R2255191							
WG1353067-3	DUP	L1060067-2						
Turbidity		<0.10	<0.10	RPD-NA	NTU	N/A	15	20-SEP-11
WG1353067-2	LCS							
Turbidity			98		%		85-115	20-SEP-11
WG1353067-1	MB							
Turbidity			<0.10		NTU		0.1	20-SEP-11

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
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
DLA	Detection Limit Adjusted For required dilution
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

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Client: AECOM Canada Ltd. (Winnipeg)
99 Commerce Drive
Winnipeg MB R3P 0Y7
Contact: Clifton Samoiloff

Page 15 of 15

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Total Dissolved Solids	1	17-SEP-11 10:00	26-SEP-11 10:07	7	9	days	EHT
Total Suspended Solids	1	17-SEP-11 10:00	26-SEP-11 10:07	7	9	days	EHT
Turbidity	1	17-SEP-11 10:00	20-SEP-11 09:00	48	71	hours	EHTL
pH	1	17-SEP-11 10:00	19-SEP-11 14:58	0.25	53	hours	EHTR-FM
Anions and Nutrients							
Colour, True	1	17-SEP-11 10:00	19-SEP-11 16:44	48	55	hours	EHTL
Nitrate as N	1	17-SEP-11 10:00	19-SEP-11 14:41	48	53	hours	EHTL
Nitrite as N	1	17-SEP-11 10:00	19-SEP-11 14:41	48	53	hours	EHTL
Phosphorus, Total	1	17-SEP-11 10:00	19-SEP-11 17:44	48	56	hours	EHTL

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1060044 were received on 19-SEP-11 08:30.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Report To		Report Format / Distribution		Service Requested (Rush for routine analysis subject to availability)	
Company: AECOM -W172		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other		<input checked="" type="radio"/> Regular (Standard Turnaround Times - Business Days)	
Contact: Cliff Samoiloff		<input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Digital <input type="checkbox"/> Fax		<input type="radio"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT	
Address: 99 Commerce Dr		Email 1: cliff.samoiloff@aecom.com		<input type="radio"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT	
Phone:		Email 2: shawna.kiantanson@aecom.com		<input type="radio"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT	
Invoice To Same as Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Email 3: mark.hadfield@aecom.com		Analysis Request	
Hardcopy of invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No		Client / Project Information		Please indicate below Filtered, Preserved or both (F, P, F/P)	
Company:		Job #: 60213483-300		Chlorophylla / Pheophytin	
Contact:		PO / AFE:		Acidity, Colour, Turbidity	
Address:		LSD:		Anions, Br, silica, ph.ec, Alk	
Phone:		Quote #: Q24534		NH3,TKN, PT	
Lab Work Order #		ALS Contact: Christine Herrod		CBOD	
(lab-use only)		Date (dd-mm-yy)		Solids (TSS, TDS)	
ANCOA		17 Sep 11		Metals & Hg - Total	
Sample #		Time (hh:mm)		Metals & Hg - Dissolved	
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AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 17-SEP-11
Report Date: 06-OCT-11 15:29 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1060058
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483
C of C Numbers:
Legal Site Desc:

Gail Hill
Account Manager

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ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1060058-1 TRB-06							
Sampled By: CLIENT on 15-SEP-11							
Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		19-SEP-11	R2255553
Fluoride							
Fluoride	<0.10		0.10	mg/L		19-SEP-11	R2255553
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		19-SEP-11	R2255553
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		19-SEP-11	R2255553
Sulfate							
Sulfate	<0.50		0.50	mg/L		19-SEP-11	R2255553
Miscellaneous Parameters							
Acidity (as CaCO3)	1.2		1.0	mg/L		21-SEP-11	R2256906
Ammonia as N	<0.050		0.050	mg/L		29-SEP-11	R2260877
Bromide (Br)	<0.10		0.10	mg/L		19-SEP-11	R2255553
BOD Carbonaceous	<1.0		1.0	mg/L	17-SEP-11	22-SEP-11	R2255920
Colour, True	<5.0		5.0	CU		17-SEP-11	R2253828
Dissolved Organic Carbon	<1.0		1.0	mg/L		22-SEP-11	R2256631
Hardness (as CaCO3)	<0.30		0.30	mg/L		26-SEP-11	
Hardness (as CaCO3)	<0.20		0.20	mg/L		28-SEP-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	05-OCT-11	05-OCT-11	R2264510
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	30-SEP-11	30-SEP-11	R2263097
Nitrate and Nitrite as N	<0.071		0.071	mg/L		19-SEP-11	
Phosphorus (P)-Total	<0.010		0.010	mg/L		20-SEP-11	R2254917
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		24-SEP-11	R2258513
Total Dissolved Solids	<5.0		5.0	mg/L		26-SEP-11	R2258740
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	17-SEP-11	20-SEP-11	R2254536
Total Organic Carbon	<1.0		1.0	mg/L		22-SEP-11	R2256631
Total Suspended Solids	<5.0		5.0	mg/L		26-SEP-11	R2258740
Turbidity	<0.10		0.10	NTU		17-SEP-11	R2254943
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	22-SEP-11	23-SEP-11	R2257881
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Arsenic (As)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Barium (Ba)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Boron (B)-Total	<0.010		0.010	mg/L	22-SEP-11	23-SEP-11	R2257881
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	22-SEP-11	23-SEP-11	R2257881
Calcium (Ca)-Total	<0.10		0.10	mg/L	22-SEP-11	23-SEP-11	R2257881
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	22-SEP-11	23-SEP-11	R2257881
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Copper (Cu)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Iron (Fe)-Total	<0.10		0.10	mg/L	22-SEP-11	23-SEP-11	R2257881
Lead (Pb)-Total	<0.000090		0.000090	mg/L	22-SEP-11	27-SEP-11	R2259295
Lithium (Li)-Total	<0.0020		0.0020	mg/L	22-SEP-11	23-SEP-11	R2257881
Magnesium (Mg)-Total	<0.010		0.010	mg/L	22-SEP-11	23-SEP-11	R2257881
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	22-SEP-11	23-SEP-11	R2257881
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	22-SEP-11	23-SEP-11	R2257881

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1060058-1 TRB-06							
Sampled By: CLIENT on 15-SEP-11							
Matrix: WATER							
Total Metals by ICP-MS							
Phosphorus (P)-Total	<0.20		0.20	mg/L	22-SEP-11	23-SEP-11	R2257881
Potassium (K)-Total	<0.020		0.020	mg/L	22-SEP-11	23-SEP-11	R2257881
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Selenium (Se)-Total	<0.0010		0.0010	mg/L	22-SEP-11	23-SEP-11	R2257881
Silicon (Si)-Total	<0.050		0.050	mg/L	22-SEP-11	23-SEP-11	R2257881
Silver (Ag)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Sodium (Na)-Total	<0.030		0.030	mg/L	22-SEP-11	23-SEP-11	R2257881
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Thorium (Th)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Tin (Sn)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Tungsten (W)-Total	<0.0010		0.0010	mg/L	22-SEP-11	23-SEP-11	R2257881
Uranium (U)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Vanadium (V)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	22-SEP-11	23-SEP-11	R2257881
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	22-SEP-11	23-SEP-11	R2257881
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	17-SEP-11	23-SEP-11	R2257942
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Boron (B)-Dissolved	<0.010		0.010	mg/L	17-SEP-11	23-SEP-11	R2257942
Cadmium (Cd)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Calcium (Ca)-Dissolved	<0.050		0.050	mg/L	17-SEP-11	27-SEP-11	R2259295
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	17-SEP-11	23-SEP-11	R2257942
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	17-SEP-11	23-SEP-11	R2257942
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	17-SEP-11	27-SEP-11	R2259295
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	17-SEP-11	23-SEP-11	R2257942
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	17-SEP-11	23-SEP-11	R2257942
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	17-SEP-11	23-SEP-11	R2257942
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	17-SEP-11	23-SEP-11	R2257942
Potassium (K)-Dissolved	<0.020		0.020	mg/L	17-SEP-11	23-SEP-11	R2257942
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	17-SEP-11	23-SEP-11	R2257942
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	17-SEP-11	23-SEP-11	R2257942
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	17-SEP-11	23-SEP-11	R2257942
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1060058-1 TRB-06 Sampled By: CLIENT on 15-SEP-11 Matrix: WATER							
Dissolved Metals by ICP-MS							
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	17-SEP-11	27-SEP-11	R2259295
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	17-SEP-11	23-SEP-11	R2257942
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	22-SEP-11	23-SEP-11	R2256760
Phaeophytin a	<0.10		0.10	ug/L	22-SEP-11	23-SEP-11	R2256760
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	4.2		1.0	mg/L		17-SEP-11	R2253785
Bicarbonate (HCO3)	5.1		2.0	mg/L		17-SEP-11	R2253785
Carbonate (CO3)	<0.60		0.60	mg/L		17-SEP-11	R2253785
Hydroxide (OH)	<0.40		0.40	mg/L		17-SEP-11	R2253785
Conductivity							
Conductivity	1.00		0.40	umhos/cm		19-SEP-11	R2254103
pH							
pH	5.94		0.10	pH units		17-SEP-11	R2253785
L1060058-2 TRB-03 Sampled By: CLIENT on 15-SEP-11 Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		19-SEP-11	R2255553
Fluoride							
Fluoride	<0.10		0.10	mg/L		19-SEP-11	R2255553
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		19-SEP-11	R2255553
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		19-SEP-11	R2255553
Sulfate							
Sulfate	<0.50		0.50	mg/L		19-SEP-11	R2255553
Miscellaneous Parameters							
Acidity (as CaCO3)	1.3		1.0	mg/L		21-SEP-11	R2256906
Ammonia as N	<0.050		0.050	mg/L		29-SEP-11	R2260877
Bromide (Br)	<0.10		0.10	mg/L		19-SEP-11	R2255553
BOD Carbonaceous	<1.0		1.0	mg/L	17-SEP-11	22-SEP-11	R2255920
Colour, True	<5.0		5.0	CU		17-SEP-11	R2253828
Dissolved Organic Carbon	<1.0		1.0	mg/L		20-SEP-11	R2255160
Hardness (as CaCO3)	<0.30		0.30	mg/L		28-SEP-11	
Hardness (as CaCO3)	<0.20		0.20	mg/L		28-SEP-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	05-OCT-11	05-OCT-11	R2264510
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	30-SEP-11	30-SEP-11	R2263097
Nitrate and Nitrite as N	<0.071		0.071	mg/L		19-SEP-11	
Phosphorus (P)-Total	0.010		0.010	mg/L		20-SEP-11	R2254917
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		24-SEP-11	R2258513
Total Dissolved Solids	<5.0		5.0	mg/L		26-SEP-11	R2258740
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	17-SEP-11	20-SEP-11	R2254536
Total Organic Carbon	1.1		1.0	mg/L		21-SEP-11	R2255889

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1060058-2 TRB-03							
Sampled By: CLIENT on 15-SEP-11							
Matrix: WATER							
Total Suspended Solids	<5.0		5.0	mg/L		26-SEP-11	R2258740
Turbidity	<0.10		0.10	NTU		17-SEP-11	R2254943
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	22-SEP-11	23-SEP-11	R2257881
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Arsenic (As)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Barium (Ba)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Boron (B)-Total	<0.010		0.010	mg/L	22-SEP-11	23-SEP-11	R2257881
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	22-SEP-11	23-SEP-11	R2257881
Calcium (Ca)-Total	<0.10		0.10	mg/L	22-SEP-11	23-SEP-11	R2257881
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	22-SEP-11	23-SEP-11	R2257881
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Copper (Cu)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Iron (Fe)-Total	<0.10		0.10	mg/L	22-SEP-11	23-SEP-11	R2257881
Lead (Pb)-Total	<0.000090		0.000090	mg/L	22-SEP-11	23-SEP-11	R2257881
Lithium (Li)-Total	<0.0020		0.0020	mg/L	22-SEP-11	23-SEP-11	R2257881
Magnesium (Mg)-Total	<0.010		0.010	mg/L	22-SEP-11	23-SEP-11	R2257881
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	22-SEP-11	23-SEP-11	R2257881
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	22-SEP-11	23-SEP-11	R2257881
Phosphorus (P)-Total	<0.20		0.20	mg/L	22-SEP-11	23-SEP-11	R2257881
Potassium (K)-Total	<0.020		0.020	mg/L	22-SEP-11	23-SEP-11	R2257881
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Selenium (Se)-Total	<0.0010		0.0010	mg/L	22-SEP-11	23-SEP-11	R2257881
Silicon (Si)-Total	<0.050		0.050	mg/L	22-SEP-11	23-SEP-11	R2257881
Silver (Ag)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Sodium (Na)-Total	<0.030		0.030	mg/L	22-SEP-11	23-SEP-11	R2257881
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Thorium (Th)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Tin (Sn)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Tungsten (W)-Total	<0.0010		0.0010	mg/L	22-SEP-11	23-SEP-11	R2257881
Uranium (U)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Vanadium (V)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	22-SEP-11	23-SEP-11	R2257881
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	22-SEP-11	23-SEP-11	R2257881
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	17-SEP-11	23-SEP-11	R2257942
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Boron (B)-Dissolved	<0.010		0.010	mg/L	17-SEP-11	23-SEP-11	R2257942
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	17-SEP-11	23-SEP-11	R2257942
Calcium (Ca)-Dissolved	<0.050		0.050	mg/L	17-SEP-11	27-SEP-11	R2259295
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1060058-2 TRB-03 Sampled By: CLIENT on 15-SEP-11 Matrix: WATER							
Dissolved Metals by ICP-MS							
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	17-SEP-11	23-SEP-11	R2257942
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	17-SEP-11	23-SEP-11	R2257942
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	17-SEP-11	23-SEP-11	R2257942
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	17-SEP-11	23-SEP-11	R2257942
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	17-SEP-11	23-SEP-11	R2257942
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	17-SEP-11	27-SEP-11	R2259295
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	17-SEP-11	23-SEP-11	R2257942
Potassium (K)-Dissolved	<0.020		0.020	mg/L	17-SEP-11	23-SEP-11	R2257942
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	17-SEP-11	23-SEP-11	R2257942
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	17-SEP-11	23-SEP-11	R2257942
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	17-SEP-11	23-SEP-11	R2257942
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Zinc (Zn)-Dissolved	<0.00020		0.0020	mg/L	17-SEP-11	23-SEP-11	R2257942
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	17-SEP-11	23-SEP-11	R2257942
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	22-SEP-11	23-SEP-11	R2256760
Phaeophytin a	<0.10		0.10	ug/L	22-SEP-11	23-SEP-11	R2256760
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	4.4		1.0	mg/L		17-SEP-11	R2253785
Bicarbonate (HCO3)	5.4		2.0	mg/L		17-SEP-11	R2253785
Carbonate (CO3)	<0.60		0.60	mg/L		17-SEP-11	R2253785
Hydroxide (OH)	<0.40		0.40	mg/L		17-SEP-11	R2253785
Conductivity							
Conductivity	0.98		0.40	umhos/cm		19-SEP-11	R2254103
pH							
pH	5.99		0.10	pH units		17-SEP-11	R2253785
L1060058-3 TRB-04 Sampled By: CLIENT on 15-SEP-11 Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		19-SEP-11	R2255553
Fluoride							
Fluoride	<0.10		0.10	mg/L		19-SEP-11	R2255553
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		19-SEP-11	R2255553

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1060058-3 TRB-04							
Sampled By: CLIENT on 15-SEP-11							
Matrix: WATER							
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		19-SEP-11	R2255553
Sulfate							
Sulfate	<0.50		0.50	mg/L		19-SEP-11	R2255553
Miscellaneous Parameters							
Acidity (as CaCO3)	1.2		1.0	mg/L		21-SEP-11	R2256906
Ammonia as N	<0.050		0.050	mg/L		29-SEP-11	R2260877
Bromide (Br)	<0.10		0.10	mg/L		19-SEP-11	R2255553
BOD Carbonaceous	<1.0		1.0	mg/L	17-SEP-11	22-SEP-11	R2255920
Colour, True	<5.0		5.0	CU		17-SEP-11	R2253828
Dissolved Organic Carbon	<1.0		1.0	mg/L		20-SEP-11	R2255160
Hardness (as CaCO3)	<0.30		0.30	mg/L		26-SEP-11	
Hardness (as CaCO3)	<0.20		0.20	mg/L		28-SEP-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	05-OCT-11	05-OCT-11	R2264510
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	30-SEP-11	30-SEP-11	R2263097
Nitrate and Nitrite as N	<0.071		0.071	mg/L		19-SEP-11	
Phosphorus (P)-Total	<0.010		0.010	mg/L		20-SEP-11	R2254917
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		24-SEP-11	R2258513
Total Dissolved Solids	<5.0		5.0	mg/L		26-SEP-11	R2258740
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	17-SEP-11	20-SEP-11	R2254536
Total Organic Carbon	<1.0		1.0	mg/L		20-SEP-11	R2255160
Total Suspended Solids	<5.0		5.0	mg/L		26-SEP-11	R2258740
Turbidity	<0.10		0.10	NTU		17-SEP-11	R2254943
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	22-SEP-11	23-SEP-11	R2257881
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Arsenic (As)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Barium (Ba)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Boron (B)-Total	<0.010		0.010	mg/L	22-SEP-11	23-SEP-11	R2257881
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	22-SEP-11	23-SEP-11	R2257881
Calcium (Ca)-Total	<0.10		0.10	mg/L	22-SEP-11	23-SEP-11	R2257881
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	22-SEP-11	23-SEP-11	R2257881
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Copper (Cu)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Iron (Fe)-Total	<0.10		0.10	mg/L	22-SEP-11	23-SEP-11	R2257881
Lead (Pb)-Total	<0.000090		0.000090	mg/L	22-SEP-11	23-SEP-11	R2257881
Lithium (Li)-Total	<0.0020		0.0020	mg/L	22-SEP-11	23-SEP-11	R2257881
Magnesium (Mg)-Total	<0.010		0.010	mg/L	22-SEP-11	23-SEP-11	R2257881
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	22-SEP-11	23-SEP-11	R2257881
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	22-SEP-11	23-SEP-11	R2257881
Phosphorus (P)-Total	<0.20		0.20	mg/L	22-SEP-11	23-SEP-11	R2257881
Potassium (K)-Total	<0.020		0.020	mg/L	22-SEP-11	23-SEP-11	R2257881
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Selenium (Se)-Total	<0.0010		0.0010	mg/L	22-SEP-11	23-SEP-11	R2257881
Silicon (Si)-Total	<0.050		0.050	mg/L	22-SEP-11	23-SEP-11	R2257881
Silver (Ag)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Sodium (Na)-Total	<0.030		0.030	mg/L	22-SEP-11	23-SEP-11	R2257881

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1060058-3 TRB-04							
Sampled By: CLIENT on 15-SEP-11							
Matrix: WATER							
Total Metals by ICP-MS							
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Thorium (Th)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Tin (Sn)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Tungsten (W)-Total	<0.0010		0.0010	mg/L	22-SEP-11	23-SEP-11	R2257881
Uranium (U)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Vanadium (V)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	22-SEP-11	23-SEP-11	R2257881
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	22-SEP-11	23-SEP-11	R2257881
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	17-SEP-11	23-SEP-11	R2257942
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Boron (B)-Dissolved	<0.010		0.010	mg/L	17-SEP-11	23-SEP-11	R2257942
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	17-SEP-11	23-SEP-11	R2257942
Calcium (Ca)-Dissolved	<0.050		0.050	mg/L	17-SEP-11	27-SEP-11	R2259295
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	17-SEP-11	23-SEP-11	R2257942
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	17-SEP-11	23-SEP-11	R2257942
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	17-SEP-11	23-SEP-11	R2257942
Lithium (Li)-Dissolved	<0.00020		0.0020	mg/L	17-SEP-11	23-SEP-11	R2257942
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	17-SEP-11	23-SEP-11	R2257942
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Nickel (Ni)-Dissolved	<0.0010		0.0010	mg/L	17-SEP-11	23-SEP-11	R2257942
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	17-SEP-11	23-SEP-11	R2257942
Potassium (K)-Dissolved	<0.020		0.020	mg/L	17-SEP-11	23-SEP-11	R2257942
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	17-SEP-11	23-SEP-11	R2257942
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	17-SEP-11	23-SEP-11	R2257942
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	17-SEP-11	23-SEP-11	R2257942
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	17-SEP-11	23-SEP-11	R2257942
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	17-SEP-11	23-SEP-11	R2257942
Chlorophyll a, Pheophytin by fluorometry							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1060058-3 TRB-04 Sampled By: CLIENT on 15-SEP-11 Matrix: WATER							
Chlorophyll a, Pheophytin by fluorometry							
Chlorophyll a	<0.10		0.10	ug/L	22-SEP-11	23-SEP-11	R2256760
Phaeophytin a	<0.10		0.10	ug/L	22-SEP-11	23-SEP-11	R2256760
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	4.2		1.0	mg/L		17-SEP-11	R2253785
Bicarbonate (HCO3)	5.1		2.0	mg/L		17-SEP-11	R2253785
Carbonate (CO3)	<0.60		0.60	mg/L		17-SEP-11	R2253785
Hydroxide (OH)	<0.40		0.40	mg/L		17-SEP-11	R2253785
Conductivity							
Conductivity	0.90		0.40	umhos/cm		19-SEP-11	R2254103
pH							
pH	5.97		0.10	pH units		17-SEP-11	R2253785
L1060058-4 FLB-01 Sampled By: CLIENT on 15-SEP-11 Matrix: WATER							
Anions by IC							
Chloride							
Chloride	<0.50		0.50	mg/L		19-SEP-11	R2255553
Fluoride							
Fluoride	<0.10		0.10	mg/L		19-SEP-11	R2255553
Nitrate as N							
Nitrate-N	<0.050		0.050	mg/L		19-SEP-11	R2255553
Nitrite as N							
Nitrite-N	<0.050		0.050	mg/L		19-SEP-11	R2255553
Sulfate							
Sulfate	<0.50		0.50	mg/L		19-SEP-11	R2255553
Miscellaneous Parameters							
Acidity (as CaCO3)	1.1		1.0	mg/L		21-SEP-11	R2256906
Ammonia as N	<0.050		0.050	mg/L		29-SEP-11	R2260877
Bromide (Br)	<0.10		0.10	mg/L		19-SEP-11	R2255553
BOD Carbonaceous	<1.0		1.0	mg/L	17-SEP-11	22-SEP-11	R2255920
Colour, True	<5.0		5.0	CU		17-SEP-11	R2253828
Dissolved Organic Carbon	<1.0		1.0	mg/L		21-SEP-11	R2255889
Hardness (as CaCO3)	<0.30		0.30	mg/L		28-SEP-11	
Hardness (as CaCO3)	<0.20		0.20	mg/L		28-SEP-11	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	05-OCT-11	05-OCT-11	R2264510
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	30-SEP-11	30-SEP-11	R2263097
Nitrate and Nitrite as N	<0.071		0.071	mg/L		19-SEP-11	
Phosphorus (P)-Total	0.010		0.010	mg/L		20-SEP-11	R2254917
Silica, Reactive (as SiO2)	<0.0050		0.0050	mg/L		24-SEP-11	R2258513
Total Dissolved Solids	<5.0		5.0	mg/L		26-SEP-11	R2258740
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	17-SEP-11	20-SEP-11	R2254536
Total Organic Carbon	1.0		1.0	mg/L		21-SEP-11	R2255889
Total Suspended Solids	<5.0		5.0	mg/L		26-SEP-11	R2258740
Turbidity	<0.10		0.10	NTU		17-SEP-11	R2254943
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	22-SEP-11	23-SEP-11	R2257881
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Arsenic (As)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Barium (Ba)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1060058-4 FLB-01							
Sampled By: CLIENT on 15-SEP-11							
Matrix: WATER							
Total Metals by ICP-MS							
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Boron (B)-Total	<0.010		0.010	mg/L	22-SEP-11	23-SEP-11	R2257881
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	22-SEP-11	23-SEP-11	R2257881
Calcium (Ca)-Total	<0.10		0.10	mg/L	22-SEP-11	27-SEP-11	R2259295
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	22-SEP-11	23-SEP-11	R2257881
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Copper (Cu)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Iron (Fe)-Total	<0.10		0.10	mg/L	22-SEP-11	23-SEP-11	R2257881
Lead (Pb)-Total	<0.000090		0.000090	mg/L	22-SEP-11	23-SEP-11	R2257881
Lithium (Li)-Total	<0.0020		0.0020	mg/L	22-SEP-11	23-SEP-11	R2257881
Magnesium (Mg)-Total	<0.010		0.010	mg/L	22-SEP-11	23-SEP-11	R2257881
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	22-SEP-11	23-SEP-11	R2257881
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	22-SEP-11	23-SEP-11	R2257881
Phosphorus (P)-Total	<0.20		0.20	mg/L	22-SEP-11	23-SEP-11	R2257881
Potassium (K)-Total	<0.020		0.020	mg/L	22-SEP-11	23-SEP-11	R2257881
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Selenium (Se)-Total	<0.0010		0.0010	mg/L	22-SEP-11	23-SEP-11	R2257881
Silicon (Si)-Total	<0.050		0.050	mg/L	22-SEP-11	23-SEP-11	R2257881
Silver (Ag)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Sodium (Na)-Total	<0.030		0.030	mg/L	22-SEP-11	23-SEP-11	R2257881
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Thorium (Th)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Tin (Sn)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Tungsten (W)-Total	<0.0010		0.0010	mg/L	22-SEP-11	23-SEP-11	R2257881
Uranium (U)-Total	<0.00010		0.00010	mg/L	22-SEP-11	23-SEP-11	R2257881
Vanadium (V)-Total	<0.00020		0.00020	mg/L	22-SEP-11	23-SEP-11	R2257881
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	22-SEP-11	23-SEP-11	R2257881
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	22-SEP-11	23-SEP-11	R2257881
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	17-SEP-11	23-SEP-11	R2257942
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Boron (B)-Dissolved	<0.010		0.010	mg/L	17-SEP-11	23-SEP-11	R2257942
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	17-SEP-11	23-SEP-11	R2257942
Calcium (Ca)-Dissolved	<0.050		0.050	mg/L	17-SEP-11	27-SEP-11	R2259295
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	17-SEP-11	23-SEP-11	R2257942
Chromium (Cr)-Dissolved	<0.0020		0.0020	mg/L	17-SEP-11	23-SEP-11	R2257942
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	17-SEP-11	23-SEP-11	R2257942
Iron (Fe)-Dissolved	<0.10		0.10	mg/L	17-SEP-11	23-SEP-11	R2257942
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	17-SEP-11	23-SEP-11	R2257942
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	17-SEP-11	23-SEP-11	R2257942

* Refer to Referenced Information for Qualifiers (if any) and Methodology.