

Appendix D

Analytical Results-1 of 2



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Date Received: 13-SEP-10
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Certificate of Analysis

Lab Work Order #: L930527
Project P.O. #: NOT SUBMITTED
Job Reference: 60160706
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ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L930527-1 UL4-F10-WQ1							
Sampled By: SK, CH, MH, JM on 10-SEP-10							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Note: Initial pH > Titration endpoint(pH 8.300)							
Ammonia as N	<0.050		0.050	mg/L		16-SEP-10	R1469440
Bromide (Br)	<0.10		0.10	mg/L		14-SEP-10	R1467253
BOD Carbonaceous	<1.0		1.0	mg/L	11-SEP-10	16-SEP-10	R1467934
Dissolved Organic Carbon	16.3		1.0	mg/L		30-SEP-10	R1482811
Hardness (as CaCO3)	131		0.20	mg/L		14-SEP-10	
Hardness (as CaCO3)	131		0.30	mg/L		15-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	14-SEP-10	14-SEP-10	R1467085
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	17-SEP-10	17-SEP-10	R1473006
Nitrate and Nitrite as N	<0.071		0.071	mg/L		15-SEP-10	
Phosphorus, Total	0.0222		0.0020	mg/L		14-SEP-10	R1465655
Silicate (as SiO2)	3.3		1.0	mg/L		14-SEP-10	R1467260
Total Dissolved Solids	192		5.0	mg/L		16-SEP-10	R1469793
Total Inorganic Carbon	34.6		1.0	mg/L		24-SEP-10	R1476547
Total Kjeldahl Nitrogen	0.80		0.20	mg/L	11-SEP-10	14-SEP-10	R1466040
Total Organic Carbon	15.2		1.0	mg/L		30-SEP-10	R1484485
Total Suspended Solids	<5.0		5.0	mg/L		16-SEP-10	R1469793
Color, True	10.0		5.0	T.C.U.		11-SEP-10	R1464330
Turbidity	0.72		0.10	NTU		11-SEP-10	R1464071
Anions scan (IC)							
Chloride	<0.50		0.50	mg/L		14-SEP-10	R1467253
Nitrite-N	<0.050		0.050	mg/L		14-SEP-10	R1467253
Nitrate-N	<0.050		0.050	mg/L		14-SEP-10	R1467253
Sulfate	<0.50		0.50	mg/L		14-SEP-10	R1467253
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	14-SEP-10	14-SEP-10	R1466569
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Arsenic (As)-Total	0.00070		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Barium (Ba)-Total	0.00511		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Boron (B)-Total	<0.010		0.010	mg/L	14-SEP-10	14-SEP-10	R1466569
Cadmium (Cd)-Total	0.000010		0.000010	mg/L	14-SEP-10	14-SEP-10	R1466569
Calcium (Ca)-Total	21.5		0.10	mg/L	14-SEP-10	14-SEP-10	R1466569
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466569
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	14-SEP-10	14-SEP-10	R1466569
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Copper (Cu)-Total	0.00028		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Iron (Fe)-Total	<0.020		0.020	mg/L	14-SEP-10	14-SEP-10	R1466569
Lead (Pb)-Total	<0.000090		0.000090	mg/L	14-SEP-10	14-SEP-10	R1466569
Lithium (Li)-Total	<0.0020		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466569
Magnesium (Mg)-Total	18.8		0.010	mg/L	14-SEP-10	14-SEP-10	R1466569
Manganese (Mn)-Total	0.00767		0.00030	mg/L	14-SEP-10	14-SEP-10	R1466569
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466569
Phosphorus (P)-Total	<0.20		0.20	mg/L	14-SEP-10	14-SEP-10	R1466569
Potassium (K)-Total	0.480		0.020	mg/L	14-SEP-10	14-SEP-10	R1466569
Rubidium (Rb)-Total	0.00073		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Selenium (Se)-Total	<0.0010		0.0010	mg/L	14-SEP-10	14-SEP-10	R1466569

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L930527-1 UL4-F10-WQ1							
Sampled By: SK, CH, MH, JM on 10-SEP-10							
Matrix: WATER							
Total Metals by ICP-MS							
Silicon (Si)-Total	1.73		0.050	mg/L	14-SEP-10	14-SEP-10	R1466569
Silver (Ag)-Total	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466569
Sodium (Na)-Total	0.908		0.030	mg/L	14-SEP-10	14-SEP-10	R1466569
Strontium (Sr)-Total	0.0167		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466569
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466569
Thorium (Th)-Total	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466569
Tin (Sn)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Tungsten (W)-Total	<0.0010		0.0010	mg/L	14-SEP-10	14-SEP-10	R1466569
Uranium (U)-Total	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466569
Vanadium (V)-Total	0.00065		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	14-SEP-10	14-SEP-10	R1466569
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	14-SEP-10	14-SEP-10	R1466569
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	13-SEP-10	14-SEP-10	R1465504
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Arsenic (As)-Dissolved	0.00064		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Barium (Ba)-Dissolved	0.00489		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Boron (B)-Dissolved	<0.010		0.010	mg/L	13-SEP-10	14-SEP-10	R1465504
Cadmium (Cd)-Dissolved	0.000025		0.000010	mg/L	13-SEP-10	14-SEP-10	R1465504
Calcium (Ca)-Dissolved	21.3		0.050	mg/L	13-SEP-10	14-SEP-10	R1465504
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	13-SEP-10	14-SEP-10	R1465504
Chromium (Cr)-Dissolved	0.00065		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Copper (Cu)-Dissolved	0.00046		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Iron (Fe)-Dissolved	0.030		0.010	mg/L	13-SEP-10	14-SEP-10	R1465504
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	13-SEP-10	14-SEP-10	R1465504
Lithium (Li)-Dissolved	0.0020		0.0020	mg/L	13-SEP-10	14-SEP-10	R1465504
Magnesium (Mg)-Dissolved	18.9		0.010	mg/L	13-SEP-10	14-SEP-10	R1465504
Manganese (Mn)-Dissolved	0.00024		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	13-SEP-10	14-SEP-10	R1465504
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	13-SEP-10	14-SEP-10	R1465504
Potassium (K)-Dissolved	0.500		0.020	mg/L	13-SEP-10	14-SEP-10	R1465504
Rubidium (Rb)-Dissolved	0.00076		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	13-SEP-10	14-SEP-10	R1465504
Silicon (Si)-Dissolved	1.46		0.050	mg/L	13-SEP-10	14-SEP-10	R1465504
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	13-SEP-10	14-SEP-10	R1465504
Sodium (Na)-Dissolved	0.940		0.020	mg/L	13-SEP-10	14-SEP-10	R1465504
Strontium (Sr)-Dissolved	0.0175		0.00010	mg/L	13-SEP-10	14-SEP-10	R1465504
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	13-SEP-10	14-SEP-10	R1465504
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	13-SEP-10	14-SEP-10	R1465504
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	13-SEP-10	14-SEP-10	R1465504
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	13-SEP-10	14-SEP-10	R1465504
Vanadium (V)-Dissolved	0.00077		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L930527-1 UL4-F10-WQ1 Sampled By: SK, CH, MH, JM on 10-SEP-10 Matrix: WATER							
Dissolved Metals by ICP-MS							
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	13-SEP-10	14-SEP-10	R1465504
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	13-SEP-10	14-SEP-10	R1465504
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	4.0		1.0	ug/L	11-SEP-10	14-SEP-10	R1465545
Phaeophytin a	<1.0		1.0	ug/L	11-SEP-10	14-SEP-10	R1465545
ODb/ODa	1.6		1.0	ABS Ratio	11-SEP-10	14-SEP-10	R1465545
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	138		1.0	mg/L		13-SEP-10	R1465201
Bicarbonate (HCO3)	155		2.0	mg/L		13-SEP-10	R1465201
Carbonate (CO3)	6.68		0.60	mg/L		13-SEP-10	R1465201
Hydroxide (OH)	<0.40		0.40	mg/L		13-SEP-10	R1465201
Conductivity							
Conductivity	247		0.40	umhos/cm		13-SEP-10	R1465201
pH							
pH	8.64		0.10	pH units		13-SEP-10	R1465201
L930527-2 UL4-F10-WQ2 Sampled By: SK, CH, MH, JM on 10-SEP-10 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Note: Initial pH > Titration endpoint(pH 8.300)							
Ammonia as N	<0.050		0.050	mg/L		16-SEP-10	R1469440
Bromide (Br)	<0.10		0.10	mg/L		14-SEP-10	R1467253
BOD Carbonaceous	<1.0		1.0	mg/L	11-SEP-10	16-SEP-10	R1467934
Dissolved Organic Carbon	15.5		1.0	mg/L		30-SEP-10	R1482811
Hardness (as CaCO3)	138		0.20	mg/L		14-SEP-10	
Hardness (as CaCO3)	140		0.30	mg/L		16-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	14-SEP-10	14-SEP-10	R1467085
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	17-SEP-10	17-SEP-10	R1473006
Nitrate and Nitrite as N	<0.071		0.071	mg/L		15-SEP-10	
Phosphorus, Total	0.0109		0.0020	mg/L		14-SEP-10	R1465655
Silicate (as SiO2)	3.9		1.0	mg/L		14-SEP-10	R1467260
Total Dissolved Solids	168		5.0	mg/L		16-SEP-10	R1469793
Total Inorganic Carbon	32.4		1.0	mg/L		24-SEP-10	R1476547
Total Kjeldahl Nitrogen	0.74		0.20	mg/L	11-SEP-10	14-SEP-10	R1466040
Total Organic Carbon	15.1		1.0	mg/L		30-SEP-10	R1484485
Total Suspended Solids	<5.0		5.0	mg/L		16-SEP-10	R1469793
Color, True	15.0		5.0	T.C.U.		11-SEP-10	R1464330
Turbidity	0.86		0.10	NTU		11-SEP-10	R1464071
Anions scan (IC)							
Chloride	<0.50		0.50	mg/L		14-SEP-10	R1467253
Nitrite-N	<0.050		0.050	mg/L		14-SEP-10	R1467253
Nitrate-N	<0.050		0.050	mg/L		14-SEP-10	R1467253
Sulfate	<0.50		0.50	mg/L		14-SEP-10	R1467253
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	14-SEP-10	14-SEP-10	R1466569
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Arsenic (As)-Total	0.00068		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Barium (Ba)-Total	0.00580		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L930527-2 UL4-F10-WQ2							
Sampled By: SK, CH, MH, JM on 10-SEP-10							
Matrix: WATER							
Total Metals by ICP-MS							
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Boron (B)-Total	<0.010		0.010	mg/L	14-SEP-10	14-SEP-10	R1466569
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	14-SEP-10	14-SEP-10	R1466569
Calcium (Ca)-Total	24.2		0.10	mg/L	14-SEP-10	14-SEP-10	R1466569
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466569
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	14-SEP-10	14-SEP-10	R1466569
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Copper (Cu)-Total	0.00029		0.00020	mg/L	14-SEP-10	15-SEP-10	R1468282
Iron (Fe)-Total	<0.020		0.020	mg/L	14-SEP-10	14-SEP-10	R1466569
Lead (Pb)-Total	<0.000090		0.000090	mg/L	14-SEP-10	14-SEP-10	R1466569
Lithium (Li)-Total	<0.0020		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466569
Magnesium (Mg)-Total	19.3		0.010	mg/L	14-SEP-10	14-SEP-10	R1466569
Manganese (Mn)-Total	0.00739		0.00030	mg/L	14-SEP-10	14-SEP-10	R1466569
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466569
Phosphorus (P)-Total	<0.20		0.20	mg/L	14-SEP-10	14-SEP-10	R1466569
Potassium (K)-Total	0.556		0.020	mg/L	14-SEP-10	14-SEP-10	R1466569
Rubidium (Rb)-Total	0.00080		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Selenium (Se)-Total	<0.0010		0.0010	mg/L	14-SEP-10	14-SEP-10	R1466569
Silicon (Si)-Total	1.96		0.050	mg/L	14-SEP-10	14-SEP-10	R1466569
Silver (Ag)-Total	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466569
Sodium (Na)-Total	0.928		0.030	mg/L	14-SEP-10	14-SEP-10	R1466569
Strontium (Sr)-Total	0.0165		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466569
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466569
Thorium (Th)-Total	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466569
Tin (Sn)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Tungsten (W)-Total	<0.0010		0.0010	mg/L	14-SEP-10	14-SEP-10	R1466569
Uranium (U)-Total	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466569
Vanadium (V)-Total	0.00077		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466569
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	14-SEP-10	14-SEP-10	R1466569
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	14-SEP-10	14-SEP-10	R1466569
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	13-SEP-10	14-SEP-10	R1465504
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Arsenic (As)-Dissolved	0.00064		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Barium (Ba)-Dissolved	0.00604		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Boron (B)-Dissolved	<0.010		0.010	mg/L	13-SEP-10	14-SEP-10	R1465504
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	13-SEP-10	14-SEP-10	R1465504
Calcium (Ca)-Dissolved	23.8		0.050	mg/L	13-SEP-10	14-SEP-10	R1465504
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	13-SEP-10	14-SEP-10	R1465504
Chromium (Cr)-Dissolved	0.00080		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	15-SEP-10	R1468282
Iron (Fe)-Dissolved	0.034		0.010	mg/L	13-SEP-10	14-SEP-10	R1465504
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	13-SEP-10	14-SEP-10	R1465504
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	13-SEP-10	14-SEP-10	R1465504

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L930527-2 UL4-F10-WQ2							
Sampled By: SK, CH, MH, JM on 10-SEP-10							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Magnesium (Mg)-Dissolved	19.1		0.010	mg/L	13-SEP-10	14-SEP-10	R1465504
Manganese (Mn)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	13-SEP-10	14-SEP-10	R1465504
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	13-SEP-10	14-SEP-10	R1465504
Potassium (K)-Dissolved	0.587		0.020	mg/L	13-SEP-10	14-SEP-10	R1465504
Rubidium (Rb)-Dissolved	0.00089		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	13-SEP-10	14-SEP-10	R1465504
Silicon (Si)-Dissolved	1.72		0.050	mg/L	13-SEP-10	14-SEP-10	R1465504
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	13-SEP-10	14-SEP-10	R1465504
Sodium (Na)-Dissolved	0.906		0.020	mg/L	13-SEP-10	14-SEP-10	R1465504
Strontium (Sr)-Dissolved	0.0183		0.00010	mg/L	13-SEP-10	14-SEP-10	R1465504
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	13-SEP-10	14-SEP-10	R1465504
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	13-SEP-10	14-SEP-10	R1465504
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	13-SEP-10	14-SEP-10	R1465504
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	13-SEP-10	14-SEP-10	R1465504
Vanadium (V)-Dissolved	0.00096		0.00020	mg/L	13-SEP-10	14-SEP-10	R1465504
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	13-SEP-10	14-SEP-10	R1465504
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	13-SEP-10	14-SEP-10	R1465504
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	2.3		1.0	ug/L	11-SEP-10	14-SEP-10	R1465545
Phaeophytin a	<1.0		1.0	ug/L	11-SEP-10	14-SEP-10	R1465545
ODb/ODa	1.5		1.0	ABS Ratio	11-SEP-10	14-SEP-10	R1465545
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	138		1.0	mg/L		13-SEP-10	R1465201
Bicarbonate (HCO3)	161		2.0	mg/L		13-SEP-10	R1465201
Carbonate (CO3)	3.73		0.60	mg/L		13-SEP-10	R1465201
Hydroxide (OH)	<0.40		0.40	mg/L		13-SEP-10	R1465201
Conductivity							
Conductivity	250		0.40	umhos/cm		13-SEP-10	R1465201
pH							
pH	8.47		0.10	pH units		13-SEP-10	R1465201

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

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L930527-1, -2

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.

ANIONS5-IC-WP	Water	Anions scan (IC)	EPA 300.1 IC
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This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".

BR-IC-WP	Water	Bromide	EPA 300.1 IC
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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
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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.

C-TOT-INORG-WP	Water	Total Inorganic Carbon	APHA 5310 B-Instrumental
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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.

C-TOT-ORG-CL	Water	Total Organic Carbon	APHA 5310 C-Instrumental
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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/A,PHEO/A-ACET-WP	Water	Chlorophyll-a & Pheophytin-a	APHA 10200H, 1998-664/750NM
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Chlorophyll-a is filtered from the sample, then extracted with 90% (v/v) acetone. Absorbance is measured spectrophotometrically at 664 nm and 750 nm. The extract is then acidified, converting chlorophyll-a to pheophytin-a. Absorbance is determined again after acidification. The chlorophyll-a concentration is determined from the decrease in absorbance upon acidification. When a detection limit of 0.5 ug/L is required, the volume of sample filtered is doubled to 700mL.

Samples with an OD664 before/OD665 after acidification ratio (664b/665a) of 1.70 are considered to contain no pheophytin a and to be in excellent physiological condition. Solutions of pure pheophytin show no reduction in OD665 upon acidification and have a 664b/665a ratio of 1.0 Thus, mixtures of chlorophyll a and pheophytin a have absorption peak ratios ranging between 1.0 and 1.7. These ratios are based on the use of 90% acetone as solvent.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
COL-TRU-WP	Water	True Colour	APHA, AWWA, WPCF
<p>Colour is measured by visual comparison against a routinely calibrated color disk. True color is the color of water from which turbidity has been removed by centrifugation.</p>			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O2 electrode
<p>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.</p>			
EC-WP	Water	Conductivity	APHA 2510B
<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	Calculated
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	Calculated
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 - Colourimetric using Salicylate-nitroprusside and hypochlorite, in an alkaline phosphate buffer.</p>			
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
P-TOTAL-WP	Water	Phosphorus, Total	APHA, 1998 P-T
<p>Samples are digested using a sulphuric acid-persulfate mixture to convert organic phosphorous to orthophosphate. The samples are analyzed by either the Flow Injection Analysis (FIA) or the Segmented Flow Analysis (SFA) method. The absorbance measured by the instrument is proportional to the concentration of orthophosphate in the sample, and is reported as phosphorous.</p>			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
PH-WP	Water	pH	APHA 4500H
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.			
SILICATE-COL-VA	Water	Silicate by Colourimetric analysis	APHA 4500-SIO2 D.
This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 D. "Silica". Silicate (molybdate-reactive silica) is determined by the molybdosilicate-heteropoly blue colourimetric method.			
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540
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 2540
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 LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA
CL	ALS LABORATORY GROUP - CALGARY, 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: L930527

Report Date: 05-OCT-10

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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	R1476323							
WG1172258-1	CVS							
Acidity (as CaCO3)			106		%		85-115	23-SEP-10
ALK-TOT-WP		Water						
Batch	R1465201							
WG1166356-5	CVS							
Alkalinity, Total (as CaCO3)			100		%		85-115	13-SEP-10
WG1166356-6	CVS							
Alkalinity, Total (as CaCO3)			97		%		85-115	13-SEP-10
WG1166356-8	DUP	L930527-2						
Alkalinity, Total (as CaCO3)		138	139		mg/L	0.10	20	13-SEP-10
Bicarbonate (HCO3)		161	161		mg/L	0.11	26	13-SEP-10
Carbonate (CO3)		3.73	3.73	J	mg/L	0.00	2.4	13-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	13-SEP-10
ANIONS5-IC-WP		Water						
Batch	R1467253							
WG1167410-2	LCS							
Chloride			102		%		85-115	14-SEP-10
Nitrite-N			102		%		85-115	14-SEP-10
Nitrate-N			100		%		85-115	14-SEP-10
Sulfate			103		%		85-115	14-SEP-10
WG1167410-1	MB							
Chloride			<0.50		mg/L		0.5	14-SEP-10
Nitrite-N			<0.050		mg/L		0.05	14-SEP-10
Nitrate-N			<0.050		mg/L		0.05	14-SEP-10
Sulfate			<0.50		mg/L		0.5	14-SEP-10
BR-IC-WP		Water						
Batch	R1467253							
WG1167410-2	LCS							
Bromide (Br)			104		%		85-115	14-SEP-10
WG1167410-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	14-SEP-10
C-DIS-ORG-WP		Water						
Batch	R1482811							
WG1176016-3	CCV							
Dissolved Organic Carbon			94		%		63-138	29-SEP-10
WG1176016-2	CVS							



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-DIS-ORG-WP								
	Water							
Batch	R1482811							
WG1176016-2	CVS							
Dissolved Organic Carbon			101		%		80-120	29-SEP-10
WG1176011-1	MB							
Dissolved Organic Carbon			<1.0		mg/L		1	29-SEP-10
C-TOT-INORG-WP								
	Water							
Batch	R1476547							
WG1172569-3	CCV							
Total Inorganic Carbon			103		%		80-120	24-SEP-10
WG1172569-2	CVS							
Total Inorganic Carbon			96		%		80-120	23-SEP-10
WG1172569-1	MB							
Total Inorganic Carbon			<1.0		mg/L		1	23-SEP-10
C-TOT-ORG-WP								
	Water							
Batch	R1484485							
WG1176844-3	CCV							
Total Organic Carbon			102		%		63-138	01-OCT-10
WG1176844-2	CVS							
Total Organic Carbon			102		%		80-120	30-SEP-10
WG1176844-1	MB							
Total Organic Carbon			<1.0		mg/L		1	30-SEP-10
CHL/A,PHEO/A-ACET-WP								
	Water							
Batch	R1465545							
WG1166303-1	CVS							
Chlorophyll a			86		%		65-135	14-SEP-10
WG1166303-2	CVS							
Chlorophyll a			89		%		65-135	14-SEP-10
COL-TRU-WP								
	Water							
Batch	R1464330							
WG1165778-3	DUP	L930527-2						
Color, True		15.0	15.0	J	T.C.U.	0.0	20	11-SEP-10
WG1165778-1	MB							
Color, True			<5.0		T.C.U.		5	11-SEP-10
CONSULT-BOD-CBOD-WP								
	Water							
Batch	R1467934							
WG1165304-3	DUP	L930527-1						
BOD Carbonaceous		<1.0	<1.0	RPD-NA	mg/L	N/A	20	16-SEP-10
WG1165304-2	IRM	61-GG						



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CONSULT-BOD-CBOD-WP Water								
Batch	R1467934							
WG1165304-2	IRM	61-GG						
BOD Carbonaceous			98		%		85-115	16-SEP-10
WG1165304-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	16-SEP-10
EC-WP Water								
Batch	R1465201							
WG1166356-2	CCV							
Conductivity			102		%		95-105	13-SEP-10
WG1166356-1	CVS							
Conductivity			100		%		90-110	13-SEP-10
WG1166356-8	DUP	L930527-2						
Conductivity		250	250		umhos/cm	0.040	10	13-SEP-10
HG-D-CVAF-WP Water								
Batch	R1467085							
WG1166798-5	DUP	L930527-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	14-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	14-SEP-10
WG1166798-2	LCS							
Mercury (Hg)-Dissolved			94		%		63-138	14-SEP-10
Mercury (Hg)-Dissolved			94		%		63-138	14-SEP-10
WG1166797-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	14-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	14-SEP-10
WG1166798-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	14-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	14-SEP-10
WG1166798-4	MS	L925772-1						
Mercury (Hg)-Dissolved			92		%		70-130	14-SEP-10
Mercury (Hg)-Dissolved			92		%		70-130	14-SEP-10
WG1166798-6	MS	L930527-1						
Mercury (Hg)-Dissolved			94		%		70-130	14-SEP-10
Mercury (Hg)-Dissolved			94		%		70-130	14-SEP-10
HG-T-CVAF-WP Water								
Batch	R1473006							
WG1170553-3	DUP	L930527-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10

Quality Control Report

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
Water								
Batch	R1473006							
WG1170553-2	LCS							
Mercury (Hg)-Total			107		%		63-138	17-SEP-10
Mercury (Hg)-Total			107		%		63-138	17-SEP-10
WG1170553-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	17-SEP-10
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	17-SEP-10
WG1170553-10	MS	L932322-2						
Mercury (Hg)-Total			103		%		70-130	17-SEP-10
Mercury (Hg)-Total			103		%		70-130	17-SEP-10
WG1170553-4	MS	L930527-1						
Mercury (Hg)-Total			101		%		70-130	17-SEP-10
Mercury (Hg)-Total			101		%		70-130	17-SEP-10
WG1170553-6	MS	L931485-1						
Mercury (Hg)-Total			107		%		70-130	17-SEP-10
Mercury (Hg)-Total			107		%		70-130	17-SEP-10
WG1170553-8	MS	L931706-2						
Mercury (Hg)-Total			101		%		70-130	17-SEP-10
Mercury (Hg)-Total			101		%		70-130	17-SEP-10
MET-D-L-MS-WP								
Water								
Batch	R1465504							
WG1166529-4	CCV							
Aluminum (Al)-Dissolved			102		%		90-110	13-SEP-10
Antimony (Sb)-Dissolved			103		%		90-110	13-SEP-10
Arsenic (As)-Dissolved			102		%		90-110	13-SEP-10
Barium (Ba)-Dissolved			102		%		90-110	13-SEP-10
Beryllium (Be)-Dissolved			99		%		90-110	13-SEP-10
Bismuth (Bi)-Dissolved			105		%		90-110	13-SEP-10
Boron (B)-Dissolved			100		%		90-110	13-SEP-10
Cadmium (Cd)-Dissolved			101		%		90-110	13-SEP-10
Calcium (Ca)-Dissolved			101		%		90-110	13-SEP-10
Cesium (Cs)-Dissolved			105		%		90-110	13-SEP-10
Chromium (Cr)-Dissolved			102		%		90-110	13-SEP-10
Cobalt (Co)-Dissolved			103		%		90-110	13-SEP-10
Copper (Cu)-Dissolved			103		%		90-110	13-SEP-10
Iron (Fe)-Dissolved			102		%		90-110	13-SEP-10
Lead (Pb)-Dissolved			103		%		90-110	13-SEP-10

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R1465504							
WG1166529-4	CCV							
Lithium (Li)-Dissolved			99		%		90-110	13-SEP-10
Magnesium (Mg)-Dissolved			101		%		90-110	13-SEP-10
Manganese (Mn)-Dissolved			101		%		90-110	13-SEP-10
Molybdenum (Mo)-Dissolved			101		%		90-110	13-SEP-10
Nickel (Ni)-Dissolved			102		%		90-110	13-SEP-10
Phosphorus (P)-Dissolved			103		%		90-110	13-SEP-10
Potassium (K)-Dissolved			102		%		90-110	13-SEP-10
Rubidium (Rb)-Dissolved			101		%		90-110	13-SEP-10
Selenium (Se)-Dissolved			100		%		90-110	13-SEP-10
Silicon (Si)-Dissolved			100		%		90-110	13-SEP-10
Silver (Ag)-Dissolved			99		%		90-110	13-SEP-10
Sodium (Na)-Dissolved			101		%		90-110	13-SEP-10
Strontium (Sr)-Dissolved			101		%		90-110	13-SEP-10
Tellurium (Te)-Dissolved			100		%		90-110	13-SEP-10
Thallium (Tl)-Dissolved			103		%		90-110	13-SEP-10
Thorium (Th)-Dissolved			101		%		63-138	13-SEP-10
Tin (Sn)-Dissolved			104		%		90-110	13-SEP-10
Titanium (Ti)-Dissolved			98		%		90-110	13-SEP-10
Tungsten (W)-Dissolved			101		%		90-110	13-SEP-10
Uranium (U)-Dissolved			101		%		90-110	13-SEP-10
Vanadium (V)-Dissolved			102		%		90-110	13-SEP-10
Zinc (Zn)-Dissolved			101		%		90-110	13-SEP-10
Zirconium (Zr)-Dissolved			101		%		90-110	13-SEP-10
WG1166529-2	CVS							
Aluminum (Al)-Dissolved			102		%		80-120	14-SEP-10
Antimony (Sb)-Dissolved			102		%		80-120	14-SEP-10
Arsenic (As)-Dissolved			101		%		80-120	14-SEP-10
Barium (Ba)-Dissolved			101		%		80-120	14-SEP-10
Beryllium (Be)-Dissolved			99		%		80-120	14-SEP-10
Bismuth (Bi)-Dissolved			104		%		80-120	14-SEP-10
Boron (B)-Dissolved			100		%		80-120	14-SEP-10
Cadmium (Cd)-Dissolved			100		%		80-120	14-SEP-10
Calcium (Ca)-Dissolved			104		%		80-120	14-SEP-10
Cesium (Cs)-Dissolved			103		%		80-120	14-SEP-10

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R1465504							
WG1166529-2	CVS							
Chromium (Cr)-Dissolved			102		%		80-120	14-SEP-10
Cobalt (Co)-Dissolved			102		%		80-120	14-SEP-10
Copper (Cu)-Dissolved			102		%		80-120	14-SEP-10
Iron (Fe)-Dissolved			101		%		80-120	14-SEP-10
Lead (Pb)-Dissolved			103		%		80-120	14-SEP-10
Lithium (Li)-Dissolved			99		%		80-120	14-SEP-10
Magnesium (Mg)-Dissolved			96		%		80-120	14-SEP-10
Manganese (Mn)-Dissolved			100		%		80-120	14-SEP-10
Molybdenum (Mo)-Dissolved			102		%		80-120	14-SEP-10
Nickel (Ni)-Dissolved			103		%		80-120	14-SEP-10
Phosphorus (P)-Dissolved			104		%		80-120	14-SEP-10
Potassium (K)-Dissolved			105		%		80-120	14-SEP-10
Rubidium (Rb)-Dissolved			101		%		80-120	14-SEP-10
Selenium (Se)-Dissolved			99		%		80-120	14-SEP-10
Silicon (Si)-Dissolved			101		%		63-138	14-SEP-10
Silver (Ag)-Dissolved			98		%		63-138	14-SEP-10
Sodium (Na)-Dissolved			100		%		80-120	14-SEP-10
Strontium (Sr)-Dissolved			100		%		80-120	14-SEP-10
Tellurium (Te)-Dissolved			100		%		80-120	14-SEP-10
Thallium (Tl)-Dissolved			104		%		80-120	14-SEP-10
Thorium (Th)-Dissolved			101		%		63-138	14-SEP-10
Tin (Sn)-Dissolved			101		%		80-120	14-SEP-10
Titanium (Ti)-Dissolved			101		%		80-120	14-SEP-10
Tungsten (W)-Dissolved			101		%		80-120	14-SEP-10
Uranium (U)-Dissolved			100		%		80-120	14-SEP-10
Vanadium (V)-Dissolved			100		%		80-120	14-SEP-10
Zinc (Zn)-Dissolved			101		%		80-120	14-SEP-10
Zirconium (Zr)-Dissolved			100		%		80-120	14-SEP-10
WG1166529-3	CVS							
Aluminum (Al)-Dissolved			99		%		80-120	14-SEP-10
Antimony (Sb)-Dissolved			101		%		80-120	14-SEP-10
Arsenic (As)-Dissolved			99		%		80-120	14-SEP-10
Barium (Ba)-Dissolved			99		%		80-120	14-SEP-10
Beryllium (Be)-Dissolved			97		%		80-120	14-SEP-10



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1465504							
WG1166529-3	CVS							
Bismuth (Bi)-Dissolved			102		%		80-120	14-SEP-10
Boron (B)-Dissolved			101		%		80-120	14-SEP-10
Cadmium (Cd)-Dissolved			99		%		80-120	14-SEP-10
Calcium (Ca)-Dissolved			103		%		80-120	14-SEP-10
Cesium (Cs)-Dissolved			100		%		80-120	14-SEP-10
Chromium (Cr)-Dissolved			97		%		80-120	14-SEP-10
Cobalt (Co)-Dissolved			95		%		80-120	14-SEP-10
Copper (Cu)-Dissolved			97		%		80-120	14-SEP-10
Iron (Fe)-Dissolved			96		%		80-120	14-SEP-10
Lead (Pb)-Dissolved			102		%		80-120	14-SEP-10
Lithium (Li)-Dissolved			96		%		80-120	14-SEP-10
Magnesium (Mg)-Dissolved			98		%		80-120	14-SEP-10
Manganese (Mn)-Dissolved			96		%		80-120	14-SEP-10
Molybdenum (Mo)-Dissolved			103		%		80-120	14-SEP-10
Nickel (Ni)-Dissolved			100		%		80-120	14-SEP-10
Phosphorus (P)-Dissolved			97		%		80-120	14-SEP-10
Potassium (K)-Dissolved			100		%		80-120	14-SEP-10
Rubidium (Rb)-Dissolved			100		%		80-120	14-SEP-10
Selenium (Se)-Dissolved			99		%		80-120	14-SEP-10
Silicon (Si)-Dissolved			98		%		63-138	14-SEP-10
Silver (Ag)-Dissolved			99		%		63-138	14-SEP-10
Sodium (Na)-Dissolved			98		%		80-120	14-SEP-10
Strontium (Sr)-Dissolved			101		%		80-120	14-SEP-10
Tellurium (Te)-Dissolved			101		%		80-120	14-SEP-10
Thallium (Tl)-Dissolved			100		%		80-120	14-SEP-10
Thorium (Th)-Dissolved			105		%		63-138	14-SEP-10
Tin (Sn)-Dissolved			99		%		80-120	14-SEP-10
Titanium (Ti)-Dissolved			101		%		80-120	14-SEP-10
Tungsten (W)-Dissolved			102		%		80-120	14-SEP-10
Uranium (U)-Dissolved			102		%		80-120	14-SEP-10
Vanadium (V)-Dissolved			97		%		80-120	14-SEP-10
Zinc (Zn)-Dissolved			97		%		80-120	14-SEP-10
Zirconium (Zr)-Dissolved			101		%		80-120	14-SEP-10
WG1166507-2	LCS							

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R1465504							
WG1166507-2	LCS							
Aluminum (Al)-Dissolved			107		%		80-120	13-SEP-10
Antimony (Sb)-Dissolved			96		%		80-120	13-SEP-10
Arsenic (As)-Dissolved			103		%		80-120	13-SEP-10
Barium (Ba)-Dissolved			106		%		80-120	13-SEP-10
Beryllium (Be)-Dissolved			111		%		80-120	13-SEP-10
Bismuth (Bi)-Dissolved			101		%		80-120	13-SEP-10
Boron (B)-Dissolved			102		%		80-120	13-SEP-10
Cadmium (Cd)-Dissolved			106		%		80-120	13-SEP-10
Calcium (Ca)-Dissolved			107		%		80-120	13-SEP-10
Cesium (Cs)-Dissolved			110		%		80-120	13-SEP-10
Chromium (Cr)-Dissolved			107		%		80-120	13-SEP-10
Cobalt (Co)-Dissolved			110		%		80-120	13-SEP-10
Copper (Cu)-Dissolved			106		%		80-120	13-SEP-10
Iron (Fe)-Dissolved			114		%		80-120	13-SEP-10
Lead (Pb)-Dissolved			100		%		80-120	13-SEP-10
Lithium (Li)-Dissolved			105		%		80-120	13-SEP-10
Magnesium (Mg)-Dissolved			106		%		80-120	13-SEP-10
Manganese (Mn)-Dissolved			109		%		80-120	13-SEP-10
Molybdenum (Mo)-Dissolved			107		%		80-120	13-SEP-10
Nickel (Ni)-Dissolved			104		%		80-120	13-SEP-10
Phosphorus (P)-Dissolved			106		%		80-120	13-SEP-10
Potassium (K)-Dissolved			106		%		80-120	13-SEP-10
Rubidium (Rb)-Dissolved			110		%		80-120	13-SEP-10
Selenium (Se)-Dissolved			105		%		80-120	13-SEP-10
Silicon (Si)-Dissolved			112		%		80-120	13-SEP-10
Silver (Ag)-Dissolved			108		%		80-120	13-SEP-10
Sodium (Na)-Dissolved			108		%		80-120	13-SEP-10
Strontium (Sr)-Dissolved			107		%		80-120	13-SEP-10
Tellurium (Te)-Dissolved			98		%		80-120	13-SEP-10
Thallium (Tl)-Dissolved			97		%		80-120	13-SEP-10
Thorium (Th)-Dissolved			101		%		80-120	13-SEP-10
Tin (Sn)-Dissolved			101		%		80-120	13-SEP-10
Titanium (Ti)-Dissolved			105		%		80-120	13-SEP-10
Tungsten (W)-Dissolved			101		%		80-120	13-SEP-10

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1465504							
WG1166507-2	LCS							
Uranium (U)-Dissolved			105		%		80-120	13-SEP-10
Vanadium (V)-Dissolved			108		%		80-120	13-SEP-10
Zinc (Zn)-Dissolved			93		%		80-120	13-SEP-10
Zirconium (Zr)-Dissolved			104		%		80-120	13-SEP-10
WG1166507-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.002	13-SEP-10
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.0002	13-SEP-10
Arsenic (As)-Dissolved			<0.00020		mg/L		0.0002	13-SEP-10
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0002	13-SEP-10
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	13-SEP-10
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0002	13-SEP-10
Boron (B)-Dissolved			<0.010		mg/L		0.01	13-SEP-10
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	13-SEP-10
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	13-SEP-10
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0001	13-SEP-10
Chromium (Cr)-Dissolved			<0.00020		mg/L		0.0002	13-SEP-10
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0002	13-SEP-10
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	13-SEP-10
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	13-SEP-10
Lead (Pb)-Dissolved			<0.000090		mg/L		0.00009	13-SEP-10
Lithium (Li)-Dissolved			<0.0020		mg/L		0.002	13-SEP-10
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.01	13-SEP-10
Manganese (Mn)-Dissolved			<0.00020		mg/L		0.0002	13-SEP-10
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0001	13-SEP-10
Nickel (Ni)-Dissolved			<0.00020		mg/L		0.0002	13-SEP-10
Phosphorus (P)-Dissolved			<0.10		mg/L		0.1	13-SEP-10
Potassium (K)-Dissolved			<0.020		mg/L		0.02	13-SEP-10
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	13-SEP-10
Selenium (Se)-Dissolved			<0.0010		mg/L		0.001	13-SEP-10
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	13-SEP-10
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	13-SEP-10
Sodium (Na)-Dissolved			<0.020		mg/L		0.02	13-SEP-10
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	13-SEP-10
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	13-SEP-10



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch R1465504								
WG1166507-1 MB								
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	13-SEP-10
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	13-SEP-10
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0002	13-SEP-10
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.0002	13-SEP-10
Tungsten (W)-Dissolved			<0.0010		mg/L		0.001	13-SEP-10
Uranium (U)-Dissolved			<0.00010		mg/L		0.0001	13-SEP-10
Vanadium (V)-Dissolved			<0.00020		mg/L		0.0002	13-SEP-10
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.002	13-SEP-10
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.0004	13-SEP-10
Batch R1468282								
WG1168003-4 CCV								
Copper (Cu)-Dissolved			103		%		90-110	15-SEP-10
WG1168003-2 CVS								
Copper (Cu)-Dissolved			102		%		80-120	15-SEP-10
WG1168003-3 CVS								
Copper (Cu)-Dissolved			97		%		80-120	15-SEP-10
MET-T-L-MS-WP		Water						
Batch R1466569								
WG1167022-3 CCV								
Aluminum (Al)-Total			94		%		90-110	14-SEP-10
Antimony (Sb)-Total			101		%		90-110	14-SEP-10
Arsenic (As)-Total			101		%		90-110	14-SEP-10
Barium (Ba)-Total			101		%		90-110	14-SEP-10
Beryllium (Be)-Total			100		%		90-110	14-SEP-10
Bismuth (Bi)-Total			101		%		90-110	14-SEP-10
Boron (B)-Total			96		%		90-110	14-SEP-10
Cadmium (Cd)-Total			103		%		90-110	14-SEP-10
Calcium (Ca)-Total			98		%		90-110	14-SEP-10
Cesium (Cs)-Total			99		%		90-110	14-SEP-10
Chromium (Cr)-Total			99		%		90-110	14-SEP-10
Cobalt (Co)-Total			98		%		90-110	14-SEP-10
Copper (Cu)-Total			98		%		90-110	14-SEP-10
Iron (Fe)-Total			96		%		90-110	14-SEP-10
Lead (Pb)-Total			101		%		90-110	14-SEP-10
Lithium (Li)-Total			98		%		90-110	14-SEP-10

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R1466569							
WG1167022-3	CCV							
Magnesium (Mg)-Total			99		%		90-110	14-SEP-10
Manganese (Mn)-Total			97		%		90-110	14-SEP-10
Molybdenum (Mo)-Total			104		%		90-110	14-SEP-10
Nickel (Ni)-Total			98		%		90-110	14-SEP-10
Phosphorus (P)-Total			95		%		90-110	14-SEP-10
Potassium (K)-Total			100		%		90-110	14-SEP-10
Rubidium (Rb)-Total			101		%		90-110	14-SEP-10
Selenium (Se)-Total			101		%		90-110	14-SEP-10
Silicon (Si)-Total			99		%		90-110	14-SEP-10
Silver (Ag)-Total			107		%		90-110	14-SEP-10
Sodium (Na)-Total			99		%		90-110	14-SEP-10
Strontium (Sr)-Total			99		%		90-110	14-SEP-10
Tellurium (Te)-Total			103		%		90-110	14-SEP-10
Thallium (Tl)-Total			99		%		90-110	14-SEP-10
Thorium (Th)-Total			101		%		63-138	14-SEP-10
Tin (Sn)-Total			102		%		90-110	14-SEP-10
Titanium (Ti)-Total			101		%		90-110	14-SEP-10
Tungsten (W)-Total			101		%		90-110	14-SEP-10
Uranium (U)-Total			99		%		90-110	14-SEP-10
Vanadium (V)-Total			99		%		90-110	14-SEP-10
Zinc (Zn)-Total			99		%		90-110	14-SEP-10
Zirconium (Zr)-Total			100		%		90-110	14-SEP-10
WG1167022-1	CVS							
Aluminum (Al)-Total			93		%		63-138	14-SEP-10
Antimony (Sb)-Total			98		%		63-138	14-SEP-10
Arsenic (As)-Total			101		%		63-138	14-SEP-10
Barium (Ba)-Total			99		%		63-138	14-SEP-10
Beryllium (Be)-Total			98		%		63-138	14-SEP-10
Bismuth (Bi)-Total			99		%		63-138	14-SEP-10
Boron (B)-Total			98		%		63-138	14-SEP-10
Cadmium (Cd)-Total			102		%		63-138	14-SEP-10
Calcium (Ca)-Total			100		%		63-138	14-SEP-10
Cesium (Cs)-Total			98		%		63-138	14-SEP-10
Chromium (Cr)-Total			94		%		63-138	14-SEP-10



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1466569							
WG1167022-1	CVS							
Cobalt (Co)-Total			98		%		63-138	14-SEP-10
Copper (Cu)-Total			101		%		63-138	14-SEP-10
Iron (Fe)-Total			96		%		63-138	14-SEP-10
Lead (Pb)-Total			98		%		63-138	14-SEP-10
Lithium (Li)-Total			93		%		63-138	14-SEP-10
Magnesium (Mg)-Total			98		%		63-138	14-SEP-10
Manganese (Mn)-Total			94		%		63-138	14-SEP-10
Molybdenum (Mo)-Total			103		%		63-138	14-SEP-10
Nickel (Ni)-Total			99		%		63-138	14-SEP-10
Phosphorus (P)-Total			100		%		63-138	14-SEP-10
Potassium (K)-Total			100		%		63-138	14-SEP-10
Rubidium (Rb)-Total			99		%		63-138	14-SEP-10
Selenium (Se)-Total			98		%		63-138	14-SEP-10
Silicon (Si)-Total			101		%		63-138	14-SEP-10
Silver (Ag)-Total			99		%		63-138	14-SEP-10
Sodium (Na)-Total			97		%		63-138	14-SEP-10
Strontium (Sr)-Total			95		%		63-138	14-SEP-10
Tellurium (Te)-Total			100		%		63-138	14-SEP-10
Thallium (Tl)-Total			96		%		63-138	14-SEP-10
Thorium (Th)-Total			103		%		63-138	14-SEP-10
Tin (Sn)-Total			101		%		63-138	14-SEP-10
Titanium (Ti)-Total			103		%		63-138	14-SEP-10
Tungsten (W)-Total			99		%		63-138	14-SEP-10
Uranium (U)-Total			94		%		63-138	14-SEP-10
Vanadium (V)-Total			97		%		63-138	14-SEP-10
Zinc (Zn)-Total			100		%		63-138	14-SEP-10
Zirconium (Zr)-Total			99		%		63-138	14-SEP-10
WG1167022-2	CVS							
Aluminum (Al)-Total			99		%		63-138	14-SEP-10
Antimony (Sb)-Total			102		%		63-138	14-SEP-10
Arsenic (As)-Total			101		%		63-138	14-SEP-10
Barium (Ba)-Total			101		%		63-138	14-SEP-10
Beryllium (Be)-Total			99		%		63-138	14-SEP-10
Bismuth (Bi)-Total			104		%		63-138	14-SEP-10

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1466569							
WG1167022-2	CVS							
Boron (B)-Total			101		%		63-138	14-SEP-10
Cadmium (Cd)-Total			107		%		63-138	14-SEP-10
Calcium (Ca)-Total			101		%		63-138	14-SEP-10
Cesium (Cs)-Total			101		%		63-138	14-SEP-10
Chromium (Cr)-Total			100		%		63-138	14-SEP-10
Cobalt (Co)-Total			100		%		63-138	14-SEP-10
Copper (Cu)-Total			98		%		63-138	14-SEP-10
Iron (Fe)-Total			100		%		63-138	14-SEP-10
Lead (Pb)-Total			101		%		63-138	14-SEP-10
Lithium (Li)-Total			98		%		63-138	14-SEP-10
Magnesium (Mg)-Total			98		%		63-138	14-SEP-10
Manganese (Mn)-Total			101		%		63-138	14-SEP-10
Molybdenum (Mo)-Total			110		%		63-138	14-SEP-10
Nickel (Ni)-Total			96		%		63-138	14-SEP-10
Phosphorus (P)-Total			96		%		63-138	14-SEP-10
Potassium (K)-Total			100		%		63-138	14-SEP-10
Rubidium (Rb)-Total			107		%		63-138	14-SEP-10
Selenium (Se)-Total			98		%		63-138	14-SEP-10
Silicon (Si)-Total			104		%		63-138	14-SEP-10
Silver (Ag)-Total			108		%		63-138	14-SEP-10
Sodium (Na)-Total			97		%		63-138	14-SEP-10
Strontium (Sr)-Total			102		%		63-138	14-SEP-10
Tellurium (Te)-Total			101		%		63-138	14-SEP-10
Thallium (Tl)-Total			101		%		63-138	14-SEP-10
Thorium (Th)-Total			102		%		63-138	14-SEP-10
Tin (Sn)-Total			109		%		63-138	14-SEP-10
Titanium (Ti)-Total			103		%		63-138	14-SEP-10
Tungsten (W)-Total			105		%		63-138	14-SEP-10
Uranium (U)-Total			100		%		63-138	14-SEP-10
Vanadium (V)-Total			104		%		63-138	14-SEP-10
Zinc (Zn)-Total			98		%		63-138	14-SEP-10
Zirconium (Zr)-Total			110		%		63-138	14-SEP-10
WG1166405-2	LCS							
Aluminum (Al)-Total			95		%		80-120	14-SEP-10



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1466569							
WG1166405-2	LCS							
Antimony (Sb)-Total			102		%		80-120	14-SEP-10
Arsenic (As)-Total			101		%		80-120	14-SEP-10
Barium (Ba)-Total			99		%		80-120	14-SEP-10
Beryllium (Be)-Total			102		%		80-120	14-SEP-10
Bismuth (Bi)-Total			99		%		80-120	14-SEP-10
Boron (B)-Total			96		%		80-120	14-SEP-10
Cadmium (Cd)-Total			95		%		80-120	14-SEP-10
Calcium (Ca)-Total			92		%		80-120	14-SEP-10
Cesium (Cs)-Total			96		%		80-120	14-SEP-10
Chromium (Cr)-Total			97		%		80-120	14-SEP-10
Cobalt (Co)-Total			100		%		80-120	14-SEP-10
Copper (Cu)-Total			98		%		80-120	14-SEP-10
Iron (Fe)-Total			96		%		80-120	14-SEP-10
Lead (Pb)-Total			97		%		80-120	14-SEP-10
Lithium (Li)-Total			93		%		80-120	14-SEP-10
Magnesium (Mg)-Total			93		%		80-120	14-SEP-10
Manganese (Mn)-Total			93		%		80-120	14-SEP-10
Molybdenum (Mo)-Total			98		%		80-120	14-SEP-10
Nickel (Ni)-Total			96		%		80-120	14-SEP-10
Phosphorus (P)-Total			99		%		80-120	14-SEP-10
Potassium (K)-Total			93		%		80-120	14-SEP-10
Rubidium (Rb)-Total			94		%		80-120	14-SEP-10
Selenium (Se)-Total			98		%		80-120	14-SEP-10
Silicon (Si)-Total			100		%		80-120	14-SEP-10
Silver (Ag)-Total			97		%		80-120	14-SEP-10
Sodium (Na)-Total			93		%		80-120	14-SEP-10
Strontium (Sr)-Total			90		%		80-120	14-SEP-10
Tellurium (Te)-Total			105		%		80-120	14-SEP-10
Thallium (Tl)-Total			100		%		80-120	14-SEP-10
Thorium (Th)-Total			96		%		63-138	14-SEP-10
Tin (Sn)-Total			98		%		80-120	14-SEP-10
Titanium (Ti)-Total			99		%		80-120	14-SEP-10
Tungsten (W)-Total			99		%		80-120	14-SEP-10
Uranium (U)-Total			93		%		80-120	14-SEP-10



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1466569							
WG1166405-2	LCS							
Vanadium (V)-Total			98		%		80-120	14-SEP-10
Zinc (Zn)-Total			99		%		80-120	14-SEP-10
Zirconium (Zr)-Total			93		%		80-120	14-SEP-10
WG1166405-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.005	14-SEP-10
Antimony (Sb)-Total			<0.00020		mg/L		0.0002	14-SEP-10
Arsenic (As)-Total			<0.00020		mg/L		0.0002	14-SEP-10
Barium (Ba)-Total			<0.00020		mg/L		0.0002	14-SEP-10
Beryllium (Be)-Total			<0.00020		mg/L		0.0002	14-SEP-10
Bismuth (Bi)-Total			<0.00020		mg/L		0.0002	14-SEP-10
Boron (B)-Total			<0.010		mg/L		0.01	14-SEP-10
Cadmium (Cd)-Total			<0.000010		mg/L		0.00001	14-SEP-10
Calcium (Ca)-Total			<0.10		mg/L		0.1	14-SEP-10
Cesium (Cs)-Total			<0.00010		mg/L		0.0001	14-SEP-10
Chromium (Cr)-Total			<0.0010		mg/L		0.001	14-SEP-10
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	14-SEP-10
Copper (Cu)-Total			<0.00020		mg/L		0.0002	14-SEP-10
Iron (Fe)-Total			<0.020		mg/L		0.02	14-SEP-10
Lead (Pb)-Total			<0.000090		mg/L		0.00009	14-SEP-10
Lithium (Li)-Total			<0.0020		mg/L		0.002	14-SEP-10
Magnesium (Mg)-Total			<0.010		mg/L		0.01	14-SEP-10
Manganese (Mn)-Total			<0.00030		mg/L		0.0003	14-SEP-10
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0002	14-SEP-10
Nickel (Ni)-Total			<0.0020		mg/L		0.002	14-SEP-10
Phosphorus (P)-Total			<0.20		mg/L		0.2	14-SEP-10
Potassium (K)-Total			<0.020		mg/L		0.02	14-SEP-10
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	14-SEP-10
Selenium (Se)-Total			<0.0010		mg/L		0.001	14-SEP-10
Silicon (Si)-Total			<0.050		mg/L		0.05	14-SEP-10
Silver (Ag)-Total			<0.00010		mg/L		0.0001	14-SEP-10
Sodium (Na)-Total			<0.030		mg/L		0.03	14-SEP-10
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	14-SEP-10
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	14-SEP-10
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	14-SEP-10



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
Water								
Batch	R1466569							
WG1166405-1	MB							
Thorium (Th)-Total			<0.00010		mg/L		0.0001	14-SEP-10
Tin (Sn)-Total			<0.00020		mg/L		0.0002	14-SEP-10
Titanium (Ti)-Total			<0.00020		mg/L		0.0002	14-SEP-10
Tungsten (W)-Total			<0.0010		mg/L		0.001	14-SEP-10
Uranium (U)-Total			<0.00010		mg/L		0.0001	14-SEP-10
Vanadium (V)-Total			<0.00020		mg/L		0.0002	14-SEP-10
Zinc (Zn)-Total			<0.0050		mg/L		0.005	14-SEP-10
Zirconium (Zr)-Total			<0.00040		mg/L		0.0004	14-SEP-10
Batch	R1468282							
WG1168003-4	CCV							
Copper (Cu)-Total			103		%		90-110	15-SEP-10
WG1168003-2	CVS							
Copper (Cu)-Total			102		%		63-138	15-SEP-10
WG1168003-3	CVS							
Copper (Cu)-Total			97		%		63-138	15-SEP-10
N-TOTKJ-WP								
Water								
Batch	R1466040							
WG1166773-2	CCV							
Total Kjeldahl Nitrogen			102		%		90-110	14-SEP-10
WG1166773-1	CVS							
Total Kjeldahl Nitrogen			101		%		90-110	14-SEP-10
WG1165335-2	LCS							
Total Kjeldahl Nitrogen			105		%		75-125	14-SEP-10
WG1165335-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	14-SEP-10
WG1165335-3	MS	L930512-2						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	14-SEP-10
NH3-COL-WP								
Water								
Batch	R1469440							
WG1168534-3	CCV							
Ammonia as N			97		%		63-138	16-SEP-10
WG1168534-2	LCS							
Ammonia as N			104		%		85-115	16-SEP-10
WG1168534-1	MB							
Ammonia as N			<0.050		mg/L		0.05	16-SEP-10
P-TOTAL-WP								
Water								



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-TOTAL-WP								
	Water							
Batch	R1465655							
WG1166243-1	CCV							
Phosphorus, Total			102		%		90-110	14-SEP-10
WG1166243-2	CCV							
Phosphorus, Total			96		%		90-110	14-SEP-10
WG1166133-2	CVS							
Phosphorus, Total			95		%		80-120	14-SEP-10
WG1166133-3	CVS							
Phosphorus, Total			99		%		80-120	14-SEP-10
WG1166133-6	CVS							
Phosphorus, Total			106		%		80-120	14-SEP-10
WG1166133-7	CVS							
Phosphorus, Total			104		%		80-120	14-SEP-10
WG1166133-5	MS	L930514-3						
Phosphorus, Total			108		%		70-130	14-SEP-10
PH-WP								
	Water							
Batch	R1465201							
WG1166356-4	CCV							
pH			100		%		90-110	13-SEP-10
WG1166356-3	CVS							
pH			100		%		99-101	13-SEP-10
WG1166356-8	DUP	L930527-2						
pH		8.47	8.47		pH units	0.012	5	13-SEP-10
SILICATE-COL-VA								
	Water							
Batch	R1467260							
WG1166918-3	CRM	VA-SIO2-CSPK1						
Silicate (as SIO2)			111		%		85-115	14-SEP-10
WG1166918-6	CRM	VA-SIO2-CSPK10						
Silicate (as SIO2)			107		%		85-115	14-SEP-10
WG1166918-2	MB							
Silicate (as SIO2)			<1.0		mg/L		1	14-SEP-10
WG1166918-5	MB							
Silicate (as SIO2)			<1.0		mg/L		1	14-SEP-10
SOLIDS-TDS-WP								
	Water							
Batch	R1469793							
WG1167743-2	CVS							
Total Dissolved Solids			100		%		85-115	16-SEP-10
WG1167743-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	16-SEP-10



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TOTSUS-WP		Water						
Batch	R1469793							
WG1167743-2	CVS							
Total Suspended Solids			96		%		85-115	16-SEP-10
WG1167743-1	MB							
Total Suspended Solids			<5.0		mg/L		5	16-SEP-10
TURBIDITY-WP		Water						
Batch	R1464071							
WG1165773-4	CCV							
Turbidity			102		%		90-110	11-SEP-10
WG1165773-5	CCV							
Turbidity			105		%		90-110	11-SEP-10
WG1165773-2	CVS							
Turbidity			98		%		63-138	11-SEP-10
WG1165773-3	CVS							
Turbidity			100		%		63-138	11-SEP-10
WG1165773-1	MB							
Turbidity			<0.10		NTU		0.1	11-SEP-10

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Legend:

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

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
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							
pH	1	10-SEP-10	13-SEP-10 12:52	0.25	73	hours	EHTR-FM
	2	10-SEP-10	13-SEP-10 12:52	0.25	73	hours	EHTR-FM
Anions and Nutrients							
Anions scan (IC)	1	10-SEP-10	14-SEP-10 15:19	48	99	hours	EHTR
	2	10-SEP-10	14-SEP-10 15:19	48	99	hours	EHTR
Bromide	1	10-SEP-10	14-SEP-10 15:19	48	99	hours	EHTR
	2	10-SEP-10	14-SEP-10 15:19	48	99	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 L930527 were received on 13-SEP-10 10:00.

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.



L930522

Report To		Report Format / Distribution		Service Requested (Rush for routine analysis subject to availability)	
Company:	AECOM	<input checked="checked" type="checkbox"/> Standard	<input type="checkbox"/> Other	<input checked="checked" type="radio"/> Regular (Default)	
Contact:	Cliff Samolioff	<input checked="checked" type="checkbox"/> PDF	<input checked="checked" type="checkbox"/> Excel	<input type="checkbox"/> Digital	<input type="checkbox"/> Fax
Address:	99 Commerce Drive	Email 1: shawna.klartanson@aecom.com			
Winnipeg, MB		Email 2: leanne.dolceblanchard@aecom.com			
Phone:	204-928-7427	Fax:	204-284-2040		
Invoice To	Same as Report ? <input checked="checked" type="checkbox"/> Yes <input type="checkbox"/> No	Client / Project Information			
Company:		Job #:	60160706		
Contact:		PO / AFE:			
Address:		LSD:			
Phone:		Fax:			
Quote #:	Q24534				

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	ALS Contact:	Sampler:	Acidity	chl a + phео a	BOD/CBOD	TOC + TIC	Anions	Tot. Metals + Hg	Diss. Metals + Hg	General Chemistry	Number of Containers
	UL4-F10-W02	10-SEP-10		Water	Christine Herrod	SK, CH, MH, JM	X	X	X	X	X	X	X	X	7
	UL4-F10-W01	10-SEP-10		Water	Christine Herrod	SK, CH, MH, JM	X	X	X	X	X	X	X	X	7

Special Instructions / Regulations / 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:		Received by:	BFB	Verified by:	
Date (dd-mm-yy):	10-SEP-10	Date:	SEP 11 2010	Date:	
Time (hh-mm):	4:00 PM	Time:	10:00	Time:	
Temperature:	6.0 °C	Temperature:		Temperature:	
Observations: Yes / No ? If Yes add SIF		Observations: Yes / No ? If Yes add SIF		Observations: Yes / No ? If Yes add SIF	



AECOM Canada Ltd. (Winnipeg)
ATTN: CLIFF SAMOILOFF
99 COMMERCE DRIVE
WINNIPEG MB R3P 0Y7
Phone: 204-928-7427

Date Received: 14-SEP-10
Report Date: 21-OCT-10 13:33 (MT)
Version: FINAL REV. 3

Certificate of Analysis

Lab Work Order #: L930932
Project P.O. #: NOT SUBMITTED
Job Reference: 60190706
Legal Site Desc:
C of C Numbers:

Comments: ADDITIONAL 20-OCT-10 14:47
ADDITIONAL 13-OCT-10 12:15
ADDITIONAL 28-SEP-10 13:42

18-OCT-10:
21-OCT-10:

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
MANITOBA TECHNOLOGY CENTRE LTD. Part of the ALS Group A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L930932-1 UL5-F10-WQ1							
Sampled By: CLIENT on 12-SEP-10							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Note: Initial pH > Titration endpoint(pH 8.300)							
Ammonia as N	<0.050		0.050	mg/L		17-SEP-10	R1471124
Bromide (Br)	<0.10		0.10	mg/L		13-SEP-10	R1467253
BOD Carbonaceous	1.2		1.0	mg/L	15-SEP-10	20-SEP-10	R1471928
Colour, True	12.3		5.0	CU		15-SEP-10	R1467475
Dissolved Organic Carbon	16.0		1.0	mg/L		30-SEP-10	R1482811
Hardness (as CaCO3)	139		0.20	mg/L		15-SEP-10	
Hardness (as CaCO3)	151		0.30	mg/L		17-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473107
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	17-SEP-10	17-SEP-10	R1473006
Nitrate and Nitrite as N	<0.071		0.071	mg/L		20-OCT-10	
Phosphorus, Total	0.0144		0.0020	mg/L		15-SEP-10	R1466731
Silicate (as SiO2)	6.1		1.0	mg/L		15-OCT-10	R1505304
Total Dissolved Solids	146		5.0	mg/L		17-SEP-10	R1470778
Total Inorganic Carbon	26.9		1.0	mg/L		24-SEP-10	R1478232
Total Kjeldahl Nitrogen	0.78		0.20	mg/L	14-SEP-10	15-SEP-10	R1467389
Total Organic Carbon	15.5		1.0	mg/L		30-SEP-10	R1484485
Total Suspended Solids	<5.0		5.0	mg/L		17-SEP-10	R1471347
Turbidity	0.66		0.10	NTU		14-SEP-10	R1466083
Anions scan (IC)							
Chloride	<0.50		0.50	mg/L		14-SEP-10	R1467253
Fluoride	<0.10		0.10	mg/L		14-SEP-10	R1467253
Nitrite-N	<0.050		0.050	mg/L		14-SEP-10	R1467253
Nitrate-N	<0.050		0.050	mg/L		14-SEP-10	R1467253
Sulfate	<0.50		0.50	mg/L		14-SEP-10	R1467253
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	15-SEP-10	15-SEP-10	R1467932
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Arsenic (As)-Total	0.00098		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Barium (Ba)-Total	0.00140		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Boron (B)-Total	<0.010		0.010	mg/L	15-SEP-10	15-SEP-10	R1467932
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	15-SEP-10	15-SEP-10	R1467932
Calcium (Ca)-Total	25.5		0.10	mg/L	15-SEP-10	15-SEP-10	R1467932
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	15-SEP-10	15-SEP-10	R1467932
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Copper (Cu)-Total	0.00024		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Iron (Fe)-Total	<0.020		0.020	mg/L	15-SEP-10	15-SEP-10	R1467932
Lead (Pb)-Total	<0.000090		0.000090	mg/L	15-SEP-10	15-SEP-10	R1467932
Lithium (Li)-Total	<0.0020		0.0020	mg/L	15-SEP-10	15-SEP-10	R1467932
Magnesium (Mg)-Total	21.3		0.010	mg/L	15-SEP-10	15-SEP-10	R1467932
Manganese (Mn)-Total	0.00695		0.00030	mg/L	15-SEP-10	15-SEP-10	R1467932
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	15-SEP-10	15-SEP-10	R1467932
Phosphorus (P)-Total	<0.20		0.20	mg/L	15-SEP-10	15-SEP-10	R1467932
Potassium (K)-Total	0.573		0.020	mg/L	15-SEP-10	15-SEP-10	R1467932
Rubidium (Rb)-Total	0.00083		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L930932-1 UL5-F10-WQ1							
Sampled By: CLIENT on 12-SEP-10							
Matrix: WATER							
Total Metals by ICP-MS							
Selenium (Se)-Total	<0.0010		0.0010	mg/L	15-SEP-10	15-SEP-10	R1467932
Silicon (Si)-Total	2.94		0.050	mg/L	15-SEP-10	16-SEP-10	R1469485
Silver (Ag)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Sodium (Na)-Total	1.06		0.030	mg/L	15-SEP-10	15-SEP-10	R1467932
Strontium (Sr)-Total	0.0113		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Thorium (Th)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Tin (Sn)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Tungsten (W)-Total	<0.0010		0.0010	mg/L	15-SEP-10	15-SEP-10	R1467932
Uranium (U)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Vanadium (V)-Total	0.00087		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	15-SEP-10	15-SEP-10	R1467932
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	15-SEP-10	15-SEP-10	R1467932
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466443
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Arsenic (As)-Dissolved	0.00095		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Barium (Ba)-Dissolved	0.00108		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Boron (B)-Dissolved	<0.010		0.010	mg/L	14-SEP-10	14-SEP-10	R1466443
Cadmium (Cd)-Dissolved	0.000029		0.000010	mg/L	14-SEP-10	14-SEP-10	R1466443
Calcium (Ca)-Dissolved	23.1		0.050	mg/L	14-SEP-10	14-SEP-10	R1466443
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Copper (Cu)-Dissolved	0.00028		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	14-SEP-10	14-SEP-10	R1466443
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	14-SEP-10	14-SEP-10	R1466443
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466443
Magnesium (Mg)-Dissolved	19.7		0.010	mg/L	14-SEP-10	14-SEP-10	R1466443
Manganese (Mn)-Dissolved	0.00034		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	14-SEP-10	14-SEP-10	R1466443
Potassium (K)-Dissolved	0.568		0.020	mg/L	14-SEP-10	14-SEP-10	R1466443
Rubidium (Rb)-Dissolved	0.00090		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	14-SEP-10	14-SEP-10	R1466443
Silicon (Si)-Dissolved	2.90		0.050	mg/L	14-SEP-10	16-SEP-10	R1469485
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Sodium (Na)-Dissolved	0.939		0.020	mg/L	14-SEP-10	14-SEP-10	R1466443
Strontium (Sr)-Dissolved	0.0101		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	14-SEP-10	14-SEP-10	R1466443
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443

* 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
L930932-1 UL5-F10-WQ1 Sampled By: CLIENT on 12-SEP-10 Matrix: WATER							
Dissolved Metals by ICP-MS							
Vanadium (V)-Dissolved	0.00124		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466443
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	14-SEP-10	14-SEP-10	R1466443
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	1.9		1.0	ug/L	14-SEP-10	21-SEP-10	R1475101
Pheophytin a	<1.0		1.0	ug/L	14-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.7		1.0	ABS Ratio	14-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	142		1.0	mg/L		14-SEP-10	R1466439
Bicarbonate (HCO3)	164		2.0	mg/L		14-SEP-10	R1466439
Carbonate (CO3)	4.58		0.60	mg/L		14-SEP-10	R1466439
Hydroxide (OH)	<0.40		0.40	mg/L		14-SEP-10	R1466439
Conductivity							
Conductivity	257		0.40	umhos/cm		14-SEP-10	R1466439
pH							
pH	8.51		0.10	pH units		14-SEP-10	R1466439
L930932-2 UL5-F10-WQ2 Sampled By: CLIENT on 12-SEP-10 Matrix: WATER							
Miscellaneous Parameters							
Ammonia as N	<0.050		0.050	mg/L		17-SEP-10	R1471124
Bromide (Br)	<0.10		0.10	mg/L		13-SEP-10	R1467253
BOD Carbonaceous	1.1		1.0	mg/L	15-SEP-10	20-SEP-10	R1471928
Colour, True	13.0		5.0	CU		15-SEP-10	R1467475
Dissolved Organic Carbon	16.3		1.0	mg/L		30-SEP-10	R1482811
Hardness (as CaCO3)	140		0.20	mg/L		15-SEP-10	
Hardness (as CaCO3)	146		0.30	mg/L		16-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473107
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	17-SEP-10	17-SEP-10	R1473006
Nitrate and Nitrite as N	<0.071		0.071	mg/L		20-OCT-10	
Phosphorus, Total	0.0110		0.0020	mg/L		15-SEP-10	R1466731
Silicate (as SiO2)	5.8		1.0	mg/L		15-OCT-10	R1505304
Total Dissolved Solids	160		5.0	mg/L		17-SEP-10	R1470778
Total Inorganic Carbon	33.4		1.0	mg/L		24-SEP-10	R1478232
Total Kjeldahl Nitrogen	0.79		0.20	mg/L	14-SEP-10	15-SEP-10	R1467389
Total Organic Carbon	15.7		1.0	mg/L		30-SEP-10	R1484485
Total Suspended Solids	<5.0		5.0	mg/L		17-SEP-10	R1471347
Turbidity	0.65		0.10	NTU		14-SEP-10	R1466083
Anions scan (IC)							
Chloride	<0.50		0.50	mg/L		14-SEP-10	R1467253
Fluoride	<0.10		0.10	mg/L		14-SEP-10	R1467253
Nitrite-N	<0.050		0.050	mg/L		14-SEP-10	R1467253
Nitrate-N	<0.050		0.050	mg/L		14-SEP-10	R1467253
Sulfate	<0.50		0.50	mg/L		14-SEP-10	R1467253
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	15-SEP-10	15-SEP-10	R1467932
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Arsenic (As)-Total	0.00099		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Barium (Ba)-Total	0.00128		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L930932-2 UL5-F10-WQ2							
Sampled By: CLIENT on 12-SEP-10							
Matrix: WATER							
Total Metals by ICP-MS							
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Boron (B)-Total	<0.010		0.010	mg/L	15-SEP-10	15-SEP-10	R1467932
Cadmium (Cd)-Total	0.000023		0.000010	mg/L	15-SEP-10	15-SEP-10	R1467932
Calcium (Ca)-Total	24.2		0.10	mg/L	15-SEP-10	15-SEP-10	R1467932
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	15-SEP-10	15-SEP-10	R1467932
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Copper (Cu)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Iron (Fe)-Total	<0.020		0.020	mg/L	15-SEP-10	15-SEP-10	R1467932
Lead (Pb)-Total	<0.000090		0.000090	mg/L	15-SEP-10	15-SEP-10	R1467932
Lithium (Li)-Total	<0.0020		0.0020	mg/L	15-SEP-10	15-SEP-10	R1467932
Magnesium (Mg)-Total	20.8		0.010	mg/L	15-SEP-10	15-SEP-10	R1467932
Manganese (Mn)-Total	0.00643		0.00030	mg/L	15-SEP-10	15-SEP-10	R1467932
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	15-SEP-10	15-SEP-10	R1467932
Phosphorus (P)-Total	<0.20		0.20	mg/L	15-SEP-10	15-SEP-10	R1467932
Potassium (K)-Total	0.558		0.020	mg/L	15-SEP-10	15-SEP-10	R1467932
Rubidium (Rb)-Total	0.00083		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Selenium (Se)-Total	<0.0010		0.0010	mg/L	15-SEP-10	15-SEP-10	R1467932
Silicon (Si)-Total	2.84		0.050	mg/L	15-SEP-10	15-SEP-10	R1467932
Silver (Ag)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Sodium (Na)-Total	0.968		0.030	mg/L	15-SEP-10	15-SEP-10	R1467932
Strontium (Sr)-Total	0.00961		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Thorium (Th)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Tin (Sn)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Tungsten (W)-Total	<0.0010		0.0010	mg/L	15-SEP-10	15-SEP-10	R1467932
Uranium (U)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Vanadium (V)-Total	0.00095		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	15-SEP-10	15-SEP-10	R1467932
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	15-SEP-10	15-SEP-10	R1467932
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466443
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Arsenic (As)-Dissolved	0.00094		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Barium (Ba)-Dissolved	0.00127		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Boron (B)-Dissolved	<0.010		0.010	mg/L	14-SEP-10	14-SEP-10	R1466443
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	14-SEP-10	14-SEP-10	R1466443
Calcium (Ca)-Dissolved	22.9		0.050	mg/L	14-SEP-10	14-SEP-10	R1466443
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Copper (Cu)-Dissolved	0.00028		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	14-SEP-10	14-SEP-10	R1466443
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	14-SEP-10	14-SEP-10	R1466443
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466443

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ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L930932-2 UL5-F10-WQ2							
Sampled By: CLIENT on 12-SEP-10							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Magnesium (Mg)-Dissolved	20.2		0.010	mg/L	14-SEP-10	14-SEP-10	R1466443
Manganese (Mn)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	14-SEP-10	14-SEP-10	R1466443
Potassium (K)-Dissolved	0.567		0.020	mg/L	14-SEP-10	14-SEP-10	R1466443
Rubidium (Rb)-Dissolved	0.00085		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	14-SEP-10	14-SEP-10	R1466443
Silicon (Si)-Dissolved	3.22		0.050	mg/L	14-SEP-10	14-SEP-10	R1466443
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Sodium (Na)-Dissolved	0.949		0.020	mg/L	14-SEP-10	14-SEP-10	R1466443
Strontium (Sr)-Dissolved	0.00992		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	14-SEP-10	14-SEP-10	R1466443
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Vanadium (V)-Dissolved	0.00123		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466443
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	14-SEP-10	14-SEP-10	R1466443
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	1.3		1.0	ug/L	14-SEP-10	21-SEP-10	R1475101
Phaeophytin a	<1.0		1.0	ug/L	14-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.5		1.0	ABS Ratio	14-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	142		1.0	mg/L		14-SEP-10	R1466439
Bicarbonate (HCO3)	163		2.0	mg/L		14-SEP-10	R1466439
Carbonate (CO3)	5.17		0.60	mg/L		14-SEP-10	R1466439
Hydroxide (OH)	<0.40		0.40	mg/L		14-SEP-10	R1466439
Conductivity							
Conductivity	257		0.40	umhos/cm		14-SEP-10	R1466439
pH							
pH	8.55		0.10	pH units		14-SEP-10	R1466439
L930932-3 UL3-F10-WQ1							
Sampled By: CLIENT on 12-SEP-10							
Matrix: WATER							
Miscellaneous Parameters							
Ammonia as N	0.744		0.050	mg/L		17-SEP-10	R1471124
Bromide (Br)	<0.10		0.10	mg/L		13-SEP-10	R1467253
BOD Carbonaceous	1.4		1.0	mg/L	15-SEP-10	20-SEP-10	R1471928
Colour, True	18.4		5.0	CU		15-SEP-10	R1467475
Dissolved Organic Carbon	27.3		1.0	mg/L		30-SEP-10	R1482811
Hardness (as CaCO3)	159		0.20	mg/L		15-SEP-10	
Hardness (as CaCO3)	194		0.30	mg/L		17-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473107
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	17-SEP-10	17-SEP-10	R1473006
Nitrate and Nitrite as N	<0.071		0.071	mg/L		20-OCT-10	

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L930932-3 UL3-F10-WQ1							
Sampled By: CLIENT on 12-SEP-10							
Matrix: WATER							
Phosphorus, Total	0.0227		0.0020	mg/L		15-SEP-10	R1466731
Silicate (as SiO2)	11.2		1.0	mg/L		15-OCT-10	R1505304
Total Dissolved Solids	190		5.0	mg/L		17-SEP-10	R1470778
Total Inorganic Carbon	37.1		1.0	mg/L		24-SEP-10	R1478232
Total Kjeldahl Nitrogen	2.36		0.20	mg/L	14-SEP-10	15-SEP-10	R1467389
Total Organic Carbon	26.8		1.0	mg/L		30-SEP-10	R1484485
Total Suspended Solids	6.0		5.0	mg/L		17-SEP-10	R1471347
Turbidity	1.73		0.10	NTU		14-SEP-10	R1466083
Anions scan (IC)							
Chloride	0.52		0.50	mg/L		14-SEP-10	R1467253
Fluoride	<0.10		0.10	mg/L		14-SEP-10	R1467253
Nitrite-N	<0.050		0.050	mg/L		14-SEP-10	R1467253
Nitrate-N	<0.050		0.050	mg/L		14-SEP-10	R1467253
Sulfate	<0.50		0.50	mg/L		14-SEP-10	R1467253
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0084		0.0050	mg/L	15-SEP-10	15-SEP-10	R1467932
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Arsenic (As)-Total	0.00116		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Barium (Ba)-Total	0.0197		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Boron (B)-Total	<0.010		0.010	mg/L	15-SEP-10	15-SEP-10	R1467932
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	15-SEP-10	15-SEP-10	R1467932
Calcium (Ca)-Total	38.0		0.10	mg/L	15-SEP-10	15-SEP-10	R1467932
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	15-SEP-10	15-SEP-10	R1467932
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Copper (Cu)-Total	0.00047		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Iron (Fe)-Total	<0.020		0.020	mg/L	15-SEP-10	15-SEP-10	R1467932
Lead (Pb)-Total	<0.000090		0.000090	mg/L	15-SEP-10	15-SEP-10	R1467932
Lithium (Li)-Total	0.0029		0.0020	mg/L	15-SEP-10	15-SEP-10	R1467932
Magnesium (Mg)-Total	24.1		0.010	mg/L	15-SEP-10	15-SEP-10	R1467932
Manganese (Mn)-Total	0.00581		0.00030	mg/L	15-SEP-10	15-SEP-10	R1467932
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	15-SEP-10	15-SEP-10	R1467932
Phosphorus (P)-Total	<0.20		0.20	mg/L	15-SEP-10	15-SEP-10	R1467932
Potassium (K)-Total	1.28		0.020	mg/L	15-SEP-10	15-SEP-10	R1467932
Rubidium (Rb)-Total	0.00150		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Selenium (Se)-Total	<0.0010		0.0010	mg/L	15-SEP-10	15-SEP-10	R1467932
Silicon (Si)-Total	5.53		0.050	mg/L	15-SEP-10	15-SEP-10	R1467932
Silver (Ag)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Sodium (Na)-Total	1.39		0.030	mg/L	15-SEP-10	15-SEP-10	R1467932
Strontium (Sr)-Total	0.0279		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Thorium (Th)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Tin (Sn)-Total	0.00036		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Titanium (Ti)-Total	0.00032		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Tungsten (W)-Total	<0.0010		0.0010	mg/L	15-SEP-10	15-SEP-10	R1467932
Uranium (U)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Vanadium (V)-Total	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	15-SEP-10	15-SEP-10	R1467932

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L930932-3 UL3-F10-WQ1							
Sampled By: CLIENT on 12-SEP-10							
Matrix: WATER							
Total Metals by ICP-MS							
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	15-SEP-10	15-SEP-10	R1467932
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466443
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Arsenic (As)-Dissolved	0.00128		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Barium (Ba)-Dissolved	0.0189		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Boron (B)-Dissolved	<0.010		0.010	mg/L	14-SEP-10	14-SEP-10	R1466443
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	14-SEP-10	14-SEP-10	R1466443
Calcium (Ca)-Dissolved	29.4		0.050	mg/L	14-SEP-10	14-SEP-10	R1466443
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Copper (Cu)-Dissolved	0.00055		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	14-SEP-10	14-SEP-10	R1466443
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	14-SEP-10	14-SEP-10	R1466443
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466443
Magnesium (Mg)-Dissolved	20.9		0.010	mg/L	14-SEP-10	14-SEP-10	R1466443
Manganese (Mn)-Dissolved	0.00031		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	14-SEP-10	14-SEP-10	R1466443
Potassium (K)-Dissolved	0.994		0.020	mg/L	14-SEP-10	14-SEP-10	R1466443
Rubidium (Rb)-Dissolved	0.00138		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	14-SEP-10	14-SEP-10	R1466443
Silicon (Si)-Dissolved	5.56		0.050	mg/L	14-SEP-10	14-SEP-10	R1466443
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Sodium (Na)-Dissolved	1.34		0.020	mg/L	14-SEP-10	14-SEP-10	R1466443
Strontium (Sr)-Dissolved	0.0236		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Titanium (Ti)-Dissolved	0.00032		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	14-SEP-10	14-SEP-10	R1466443
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	16-SEP-10	R1469485
Zinc (Zn)-Dissolved	0.0021		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466443
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	14-SEP-10	14-SEP-10	R1466443
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	4.6		1.0	ug/L	14-SEP-10	21-SEP-10	R1475101
Phaeophytin a	1.6		1.0	ug/L	14-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.5		1.0	ABS Ratio	14-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	158		1.0	mg/L		14-SEP-10	R1466439
Bicarbonate (HCO3)	182		2.0	mg/L		14-SEP-10	R1466439
Carbonate (CO3)	5.50		0.60	mg/L		14-SEP-10	R1466439
Hydroxide (OH)	<0.40		0.40	mg/L		14-SEP-10	R1466439
Conductivity							
Conductivity	287		0.40	umhos/cm		14-SEP-10	R1466439

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ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L930932-3 UL3-F10-WQ1 Sampled By: CLIENT on 12-SEP-10 Matrix: WATER pH pH	8.53		0.10	pH units		14-SEP-10	R1466439
L930932-4 UL3-F10-WQ2 Sampled By: CLIENT on 12-SEP-10 Matrix: WATER Miscellaneous Parameters							
Ammonia as N	0.525		0.050	mg/L		17-SEP-10	R1471124
Bromide (Br)	<0.10		0.10	mg/L		13-SEP-10	R1467253
BOD Carbonaceous	1.5		1.0	mg/L	15-SEP-10	20-SEP-10	R1471928
Colour, True	18.0		5.0	CU		15-SEP-10	R1467475
Dissolved Organic Carbon	27.0		1.0	mg/L		30-SEP-10	R1482811
Hardness (as CaCO3)	163		0.20	mg/L		15-SEP-10	
Hardness (as CaCO3)	195		0.30	mg/L		17-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473107
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	17-SEP-10	17-SEP-10	R1473006
Nitrate and Nitrite as N	<0.071		0.071	mg/L		20-OCT-10	
Phosphorus, Total	0.0214		0.0020	mg/L		15-SEP-10	R1466731
Silicate (as SiO2)	10.6		1.0	mg/L		15-OCT-10	R1505304
Total Dissolved Solids	198		5.0	mg/L		17-SEP-10	R1470778
Total Inorganic Carbon	37.3		1.0	mg/L		24-SEP-10	R1478232
Total Kjeldahl Nitrogen	2.32		0.20	mg/L	14-SEP-10	15-SEP-10	R1467389
Total Organic Carbon	26.8		1.0	mg/L		30-SEP-10	R1484485
Total Suspended Solids	8.0		5.0	mg/L		17-SEP-10	R1471347
Turbidity	1.84		0.10	NTU		14-SEP-10	R1466083
Anions scan (IC)							
Chloride	0.55		0.50	mg/L		14-SEP-10	R1467253
Fluoride	<0.10		0.10	mg/L		14-SEP-10	R1467253
Nitrite-N	<0.050		0.050	mg/L		14-SEP-10	R1467253
Nitrate-N	<0.050		0.050	mg/L		14-SEP-10	R1467253
Sulfate	<0.50		0.50	mg/L		14-SEP-10	R1467253
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0066		0.0050	mg/L	15-SEP-10	15-SEP-10	R1467932
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Arsenic (As)-Total	0.00115		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Barium (Ba)-Total	0.0191		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Boron (B)-Total	<0.010		0.010	mg/L	15-SEP-10	15-SEP-10	R1467932
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	15-SEP-10	15-SEP-10	R1467932
Calcium (Ca)-Total	38.4		0.10	mg/L	15-SEP-10	15-SEP-10	R1467932
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	15-SEP-10	15-SEP-10	R1467932
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Copper (Cu)-Total	0.00044		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Iron (Fe)-Total	<0.020		0.020	mg/L	15-SEP-10	15-SEP-10	R1467932
Lead (Pb)-Total	<0.000090		0.000090	mg/L	15-SEP-10	15-SEP-10	R1467932
Lithium (Li)-Total	0.0029		0.0020	mg/L	15-SEP-10	15-SEP-10	R1467932
Magnesium (Mg)-Total	24.0		0.010	mg/L	15-SEP-10	15-SEP-10	R1467932
Manganese (Mn)-Total	0.00566		0.00030	mg/L	15-SEP-10	15-SEP-10	R1467932
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932

* 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
L930932-4 UL3-F10-WQ2							
Sampled By: CLIENT on 12-SEP-10							
Matrix: WATER							
Total Metals by ICP-MS							
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	15-SEP-10	15-SEP-10	R1467932
Phosphorus (P)-Total	<0.20		0.20	mg/L	15-SEP-10	15-SEP-10	R1467932
Potassium (K)-Total	1.22		0.020	mg/L	15-SEP-10	15-SEP-10	R1467932
Rubidium (Rb)-Total	0.00145		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Selenium (Se)-Total	<0.0010		0.0010	mg/L	15-SEP-10	15-SEP-10	R1467932
Silicon (Si)-Total	5.49		0.050	mg/L	15-SEP-10	15-SEP-10	R1467932
Silver (Ag)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Sodium (Na)-Total	1.38		0.030	mg/L	15-SEP-10	15-SEP-10	R1467932
Strontium (Sr)-Total	0.0263		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Thorium (Th)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Tin (Sn)-Total	<0.00020		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Titanium (Ti)-Total	0.00027		0.00020	mg/L	15-SEP-10	15-SEP-10	R1467932
Tungsten (W)-Total	<0.0010		0.0010	mg/L	15-SEP-10	15-SEP-10	R1467932
Uranium (U)-Total	<0.00010		0.00010	mg/L	15-SEP-10	15-SEP-10	R1467932
Vanadium (V)-Total	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	15-SEP-10	15-SEP-10	R1467932
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	15-SEP-10	15-SEP-10	R1467932
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466443
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Arsenic (As)-Dissolved	0.00125		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Barium (Ba)-Dissolved	0.0191		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Boron (B)-Dissolved	0.010		0.010	mg/L	14-SEP-10	14-SEP-10	R1466443
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	14-SEP-10	14-SEP-10	R1466443
Calcium (Ca)-Dissolved	30.0		0.050	mg/L	14-SEP-10	14-SEP-10	R1466443
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Copper (Cu)-Dissolved	0.00033		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	14-SEP-10	14-SEP-10	R1466443
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	14-SEP-10	14-SEP-10	R1466443
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466443
Magnesium (Mg)-Dissolved	21.3		0.010	mg/L	14-SEP-10	14-SEP-10	R1466443
Manganese (Mn)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	14-SEP-10	14-SEP-10	R1466443
Potassium (K)-Dissolved	0.981		0.020	mg/L	14-SEP-10	14-SEP-10	R1466443
Rubidium (Rb)-Dissolved	0.00140		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	14-SEP-10	14-SEP-10	R1466443
Silicon (Si)-Dissolved	5.51		0.050	mg/L	14-SEP-10	14-SEP-10	R1466443
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Sodium (Na)-Dissolved	1.23		0.020	mg/L	14-SEP-10	14-SEP-10	R1466443
Strontium (Sr)-Dissolved	0.0238		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L930932-4 UL3-F10-WQ2							
Sampled By: CLIENT on 12-SEP-10							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	14-SEP-10	R1466443
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	14-SEP-10	14-SEP-10	R1466443
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	14-SEP-10	14-SEP-10	R1466443
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	14-SEP-10	16-SEP-10	R1469485
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	14-SEP-10	14-SEP-10	R1466443
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	14-SEP-10	14-SEP-10	R1466443
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	5.3		1.0	ug/L	14-SEP-10	21-SEP-10	R1475101
Phaeophytin a	1.1		1.0	ug/L	14-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.6		1.0	ABS Ratio	14-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	158		1.0	mg/L		14-SEP-10	R1466439
Bicarbonate (HCO3)	182		2.0	mg/L		14-SEP-10	R1466439
Carbonate (CO3)	5.37		0.60	mg/L		14-SEP-10	R1466439
Hydroxide (OH)	<0.40		0.40	mg/L		14-SEP-10	R1466439
Conductivity							
Conductivity	287		0.40	umhos/cm		14-SEP-10	R1466439
pH							
pH	8.52		0.10	pH units		14-SEP-10	R1466439

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

Reference Information

Qualifiers for Individual Samples Listed:

Sample Number	Client ID	Qualifier	Description
L930932-4	UL3-F10-WQ2	EHT	Silicate analyses past hold time - Exceeded Recommended Holding Time Prior To Analysis

Test Method References:

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

ANIONS5-IC-WP	Water	Anions scan (IC)	EPA 300.1 IC
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This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".

BR-IC-WP	Water	Bromide	EPA 300.1 IC
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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
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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.

C-TOT-INORG-WP	Water	Total Inorganic Carbon	APHA 5310 B-Instrumental
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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.

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/A,PHEO/A-ACET-WP	Water	Chlorophyll-a & Pheophytin-a	APHA 10200H, 1998-664/750NM
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Chlorophyll-a is filtered from the sample, then extracted with 90% (v/v) acetone. Absorbance is measured spectrophotometrically at 664 nm and 750 nm. The extract is then acidified, converting chlorophyll-a to pheophytin-a. Absorbance is determined again after acidification. The chlorophyll-a concentration is determined from the decrease in absorbance upon acidification. When a detection limit of 0.5 ug/L is required, the volume of sample filtered is doubled to 700mL.

Samples with an OD664 before/OD665 after acidification ratio (664b/665a) of 1.70 are considered to contain no pheophytin a and to be in excellent physiological condition. Solutions of pure pheophytin show no reduction in OD665 upon acidification and have a 664b/665a ratio of 1.0 Thus, mixtures of chlorophyll a and pheophytin a have absorption peak ratios ranging between 1.0 and 1.7. These ratios are based on the use of 90% acetone as solvent.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR
<p>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.</p>			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O2 electrode
<p>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.</p>			
EC-WP	Water	Conductivity	APHA 2510B
<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	Calculated
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	Calculated
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 - Colourimetric using Salicylate-nitroprusside and hypochlorite, in an alkaline phosphate buffer.</p>			
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
P-TOTAL-WP	Water	Phosphorus, Total	APHA, 1998 P-T
<p>Samples are digested using a sulphuric acid-persulfate mixture to convert organic phosphorous to orthophosphate. The samples are analyzed by either the Flow Injection Analysis (FIA) or the Segmented Flow Analysis (SFA) method. The absorbance measured by the instrument is proportional to the concentration of orthophosphate in the sample, and is reported as phosphorous.</p>			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
PH-WP	Water	pH	APHA 4500H
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.			
SILICATE-COL-VA	Water	Silicate by Colourimetric analysis	APHA 4500-SIO2 D.
This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 D. "Silica". Silicate (molybdate-reactive silica) is determined by the molybdosilicate-heteropoly blue colourimetric method.			
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540
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 2540
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 LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA
VA	ALS LABORATORY GROUP - VANCOUVER, BC, 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: L930932

Report Date: 21-OCT-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R1476323							
WG1172258-1	CVS							
Acidity (as CaCO3)			106		%		85-115	23-SEP-10
WG1172258-2	DUP	L935000-1						
Acidity (as CaCO3)		2.2	2.1	J	mg/L	0.2	4	23-SEP-10
ALK-TOT-WP								
	Water							
Batch	R1466439							
WG1167009-5	CVS							
Alkalinity, Total (as CaCO3)			101		%		85-115	14-SEP-10
WG1167009-6	CVS							
Alkalinity, Total (as CaCO3)			104		%		85-115	14-SEP-10
WG1167009-7	DUP	L930932-4						
Alkalinity, Total (as CaCO3)		158	158		mg/L	0.013	20	14-SEP-10
Bicarbonate (HCO3)		182	182		mg/L	0.016	26	14-SEP-10
Carbonate (CO3)		5.37	5.37	J	mg/L	0.00	2.4	14-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	14-SEP-10
WG1167009-8	DUP	L930177-5						
Alkalinity, Total (as CaCO3)		18.2	18.4		mg/L	0.60	20	14-SEP-10
Bicarbonate (HCO3)		22.3	22.4		mg/L	0.60	26	14-SEP-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	14-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	14-SEP-10
ANIONS5-IC-WP								
	Water							
Batch	R1467253							
WG1167410-2	LCS							
Chloride			102		%		85-115	14-SEP-10
Fluoride			105		%		85-115	14-SEP-10
Nitrite-N			102		%		85-115	14-SEP-10
Nitrate-N			100		%		85-115	14-SEP-10
Sulfate			103		%		85-115	14-SEP-10
WG1167410-1	MB							
Chloride			<0.50		mg/L		0.5	14-SEP-10
Fluoride			<0.10		mg/L		0.1	14-SEP-10
Nitrite-N			<0.050		mg/L		0.05	14-SEP-10
Nitrate-N			<0.050		mg/L		0.05	14-SEP-10
Sulfate			<0.50		mg/L		0.5	14-SEP-10
BR-IC-WP								
	Water							



Quality Control Report

Workorder: L930932

Report Date: 21-OCT-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BR-IC-WP		Water						
Batch	R1467253							
WG1167410-2	LCS							
Bromide (Br)			104		%		85-115	14-SEP-10
WG1167410-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	14-SEP-10
C-DIS-ORG-WP		Water						
Batch	R1482811							
WG1176016-3	CCV							
Dissolved Organic Carbon			94		%		63-138	29-SEP-10
WG1176016-2	CVS							
Dissolved Organic Carbon			101		%		80-120	29-SEP-10
WG1176011-2	DUP	L933234-1						
Dissolved Organic Carbon		13.0	12.9		mg/L	0.83	20	29-SEP-10
WG1176011-1	MB							
Dissolved Organic Carbon			<1.0		mg/L		1	29-SEP-10
C-TOT-INORG-WP		Water						
Batch	R1478232							
WG1173727-3	CCV							
Total Inorganic Carbon			105		%		80-120	24-SEP-10
WG1173727-2	CVS							
Total Inorganic Carbon			97		%		80-120	24-SEP-10
WG1173727-4	DUP	L932322-1						
Total Inorganic Carbon		18.4	21.3		mg/L	0.63	20	25-SEP-10
WG1173727-1	MB							
Total Inorganic Carbon			<1.0		mg/L		1	24-SEP-10
C-TOT-ORG-WP		Water						
Batch	R1484485							
WG1176844-3	CCV							
Total Organic Carbon			102		%		63-138	01-OCT-10
WG1176844-2	CVS							
Total Organic Carbon			102		%		80-120	30-SEP-10
WG1176844-1	MB							
Total Organic Carbon			<1.0		mg/L		1	30-SEP-10
CHL/A,PHEO/A-ACET-WP		Water						
Batch	R1475101							
WG1170206-1	CVS							
Chlorophyll a			96		%		65-135	21-SEP-10
WG1170206-2	CVS							



Quality Control Report

Workorder: L930932

Report Date: 21-OCT-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CHL/A,PHEO/A-ACET-WP Water								
Batch	R1475101							
WG1170206-2	CVS							
Chlorophyll a			86		%		65-135	21-SEP-10
WG1170199-1	MB							
Chlorophyll a			<1.0		ug/L		1	21-SEP-10
Phaeophytin a			<1.0		ug/L		1	21-SEP-10
COLOUR-TRUE-WP Water								
Batch	R1467475							
WG1167280-3	DUP	L930932-1						
Colour, True		12.3	12.2	J	CU	0.1	20	15-SEP-10
WG1167280-4	DUP	L931372-4						
Colour, True		361	353		CU	2.2	20	15-SEP-10
WG1167280-2	LCS							
Colour, True			106		%		85-115	15-SEP-10
WG1167280-1	MB							
Colour, True			<5.0		CU		5	15-SEP-10
CONSULT-BOD-CBOD-WP Water								
Batch	R1471928							
WG1166991-3	DUP	L930932-1						
BOD Carbonaceous		1.2	1.3	J	mg/L	0.1	4	20-SEP-10
WG1166991-2	IRM	61-GG						
BOD Carbonaceous			98		%		85-115	20-SEP-10
WG1166991-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	20-SEP-10
EC-WP Water								
Batch	R1466439							
WG1167009-2	CCV							
Conductivity			104		%		95-105	14-SEP-10
WG1167009-1	CVS							
Conductivity			100		%		90-110	14-SEP-10
WG1167009-7	DUP	L930932-4						
Conductivity		287	287		umhos/cm	0.035	10	14-SEP-10
HG-D-CVAF-WP Water								
Batch	R1473107							
WG1170585-3	DUP	L930932-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170585-5	DUP	L932800-5						



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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAF-WP		Water						
Batch	R1473107							
WG1170585-5	DUP	L932800-5						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170585-7	DUP	L933241-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170585-2	LCS							
Mercury (Hg)-Dissolved			97		%		63-138	20-SEP-10
Mercury (Hg)-Dissolved			97		%		63-138	20-SEP-10
WG1170584-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10
WG1170585-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10
WG1170585-4	MS	L930932-1						
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10
WG1170585-6	MS	L932800-5						
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10
WG1170585-8	MS	L933241-1						
Mercury (Hg)-Dissolved			84		%		70-130	20-SEP-10
Mercury (Hg)-Dissolved			84		%		70-130	20-SEP-10
HG-T-CVAF-WP		Water						
Batch	R1473006							
WG1170553-3	DUP	L930527-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
WG1170553-5	DUP	L931485-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
WG1170553-7	DUP	L931706-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
WG1170553-9	DUP	L932322-2						



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
	Water							
Batch	R1473006							
WG1170553-9	DUP	L932322-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
WG1170553-2	LCS							
Mercury (Hg)-Total			107		%		63-138	17-SEP-10
Mercury (Hg)-Total			107		%		63-138	17-SEP-10
WG1170553-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	17-SEP-10
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	17-SEP-10
WG1170553-10	MS	L932322-2						
Mercury (Hg)-Total			103		%		70-130	17-SEP-10
Mercury (Hg)-Total			103		%		70-130	17-SEP-10
WG1170553-4	MS	L930527-1						
Mercury (Hg)-Total			101		%		70-130	17-SEP-10
Mercury (Hg)-Total			101		%		70-130	17-SEP-10
WG1170553-6	MS	L931485-1						
Mercury (Hg)-Total			107		%		70-130	17-SEP-10
Mercury (Hg)-Total			107		%		70-130	17-SEP-10
WG1170553-8	MS	L931706-2						
Mercury (Hg)-Total			101		%		70-130	17-SEP-10
Mercury (Hg)-Total			101		%		70-130	17-SEP-10
MET-D-L-MS-WP								
	Water							
Batch	R1466443							
WG1167008-4	CCV							
Aluminum (Al)-Dissolved			105		%		90-110	14-SEP-10
Antimony (Sb)-Dissolved			101		%		90-110	14-SEP-10
Arsenic (As)-Dissolved			102		%		90-110	14-SEP-10
Barium (Ba)-Dissolved			100		%		90-110	14-SEP-10
Beryllium (Be)-Dissolved			102		%		90-110	14-SEP-10
Bismuth (Bi)-Dissolved			103		%		90-110	14-SEP-10
Boron (B)-Dissolved			101		%		90-110	14-SEP-10
Cadmium (Cd)-Dissolved			100		%		90-110	14-SEP-10
Calcium (Ca)-Dissolved			99		%		90-110	14-SEP-10
Cesium (Cs)-Dissolved			101		%		90-110	14-SEP-10
Chromium (Cr)-Dissolved			104		%		90-110	14-SEP-10
Cobalt (Co)-Dissolved			104		%		90-110	14-SEP-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1466443							
WG1167008-4	CCV							
Copper (Cu)-Dissolved			104		%		90-110	14-SEP-10
Iron (Fe)-Dissolved			103		%		90-110	14-SEP-10
Lead (Pb)-Dissolved			100		%		90-110	14-SEP-10
Lithium (Li)-Dissolved			103		%		90-110	14-SEP-10
Magnesium (Mg)-Dissolved			105		%		90-110	14-SEP-10
Manganese (Mn)-Dissolved			104		%		90-110	14-SEP-10
Molybdenum (Mo)-Dissolved			102		%		90-110	14-SEP-10
Nickel (Ni)-Dissolved			103		%		90-110	14-SEP-10
Phosphorus (P)-Dissolved			106		%		90-110	14-SEP-10
Potassium (K)-Dissolved			103		%		90-110	14-SEP-10
Rubidium (Rb)-Dissolved			100		%		90-110	14-SEP-10
Selenium (Se)-Dissolved			103		%		90-110	14-SEP-10
Silicon (Si)-Dissolved			107		%		90-110	14-SEP-10
Silver (Ag)-Dissolved			102		%		90-110	14-SEP-10
Sodium (Na)-Dissolved			103		%		90-110	14-SEP-10
Strontium (Sr)-Dissolved			99		%		90-110	14-SEP-10
Tellurium (Te)-Dissolved			99		%		90-110	14-SEP-10
Thallium (Tl)-Dissolved			103		%		90-110	14-SEP-10
Thorium (Th)-Dissolved			93		%		63-138	14-SEP-10
Tin (Sn)-Dissolved			103		%		90-110	14-SEP-10
Titanium (Ti)-Dissolved			102		%		90-110	14-SEP-10
Tungsten (W)-Dissolved			100		%		90-110	14-SEP-10
Uranium (U)-Dissolved			94		%		90-110	14-SEP-10
Vanadium (V)-Dissolved			102		%		90-110	14-SEP-10
Zinc (Zn)-Dissolved			102		%		90-110	14-SEP-10
Zirconium (Zr)-Dissolved			100		%		90-110	14-SEP-10
WG1167008-2	CVS							
Aluminum (Al)-Dissolved			97		%		80-120	14-SEP-10
Antimony (Sb)-Dissolved			101		%		80-120	14-SEP-10
Arsenic (As)-Dissolved			99		%		80-120	14-SEP-10
Barium (Ba)-Dissolved			99		%		80-120	14-SEP-10
Beryllium (Be)-Dissolved			99		%		80-120	14-SEP-10
Bismuth (Bi)-Dissolved			103		%		80-120	14-SEP-10
Boron (B)-Dissolved			97		%		80-120	14-SEP-10



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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1466443							
WG1167008-2 CVS								
Cadmium (Cd)-Dissolved			99		%		80-120	14-SEP-10
Calcium (Ca)-Dissolved			99		%		80-120	14-SEP-10
Cesium (Cs)-Dissolved			102		%		80-120	14-SEP-10
Chromium (Cr)-Dissolved			99		%		80-120	14-SEP-10
Cobalt (Co)-Dissolved			103		%		80-120	14-SEP-10
Copper (Cu)-Dissolved			100		%		80-120	14-SEP-10
Iron (Fe)-Dissolved			100		%		80-120	14-SEP-10
Lead (Pb)-Dissolved			102		%		80-120	14-SEP-10
Lithium (Li)-Dissolved			99		%		80-120	14-SEP-10
Magnesium (Mg)-Dissolved			96		%		80-120	14-SEP-10
Manganese (Mn)-Dissolved			100		%		80-120	14-SEP-10
Molybdenum (Mo)-Dissolved			100		%		80-120	14-SEP-10
Nickel (Ni)-Dissolved			102		%		80-120	14-SEP-10
Phosphorus (P)-Dissolved			98		%		80-120	14-SEP-10
Potassium (K)-Dissolved			100		%		80-120	14-SEP-10
Rubidium (Rb)-Dissolved			100		%		80-120	14-SEP-10
Selenium (Se)-Dissolved			98		%		80-120	14-SEP-10
Silicon (Si)-Dissolved			98		%		63-138	14-SEP-10
Silver (Ag)-Dissolved			97		%		63-138	14-SEP-10
Sodium (Na)-Dissolved			97		%		80-120	14-SEP-10
Strontium (Sr)-Dissolved			98		%		80-120	14-SEP-10
Tellurium (Te)-Dissolved			99		%		80-120	14-SEP-10
Thallium (Tl)-Dissolved			102		%		80-120	14-SEP-10
Thorium (Th)-Dissolved			97		%		63-138	14-SEP-10
Tin (Sn)-Dissolved			101		%		80-120	14-SEP-10
Titanium (Ti)-Dissolved			97		%		80-120	14-SEP-10
Tungsten (W)-Dissolved			101		%		80-120	14-SEP-10
Uranium (U)-Dissolved			95		%		80-120	14-SEP-10
Vanadium (V)-Dissolved			98		%		80-120	14-SEP-10
Zinc (Zn)-Dissolved			101		%		80-120	14-SEP-10
Zirconium (Zr)-Dissolved			97		%		80-120	14-SEP-10
WG1167008-3 CVS								
Aluminum (Al)-Dissolved			105		%		80-120	14-SEP-10
Antimony (Sb)-Dissolved			95		%		80-120	14-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1466443							
WG1167008-3	CVS							
Arsenic (As)-Dissolved			97		%		80-120	14-SEP-10
Barium (Ba)-Dissolved			95		%		80-120	14-SEP-10
Beryllium (Be)-Dissolved			99		%		80-120	14-SEP-10
Bismuth (Bi)-Dissolved			100		%		80-120	14-SEP-10
Boron (B)-Dissolved			99		%		80-120	14-SEP-10
Cadmium (Cd)-Dissolved			97		%		80-120	14-SEP-10
Calcium (Ca)-Dissolved			100		%		80-120	14-SEP-10
Cesium (Cs)-Dissolved			96		%		80-120	14-SEP-10
Chromium (Cr)-Dissolved			97		%		80-120	14-SEP-10
Cobalt (Co)-Dissolved			98		%		80-120	14-SEP-10
Copper (Cu)-Dissolved			97		%		80-120	14-SEP-10
Iron (Fe)-Dissolved			100		%		80-120	14-SEP-10
Lead (Pb)-Dissolved			98		%		80-120	14-SEP-10
Lithium (Li)-Dissolved			100		%		80-120	14-SEP-10
Magnesium (Mg)-Dissolved			99		%		80-120	14-SEP-10
Manganese (Mn)-Dissolved			101		%		80-120	14-SEP-10
Molybdenum (Mo)-Dissolved			101		%		80-120	14-SEP-10
Nickel (Ni)-Dissolved			96		%		80-120	14-SEP-10
Phosphorus (P)-Dissolved			97		%		80-120	14-SEP-10
Potassium (K)-Dissolved			99		%		80-120	14-SEP-10
Rubidium (Rb)-Dissolved			100		%		80-120	14-SEP-10
Selenium (Se)-Dissolved			99		%		80-120	14-SEP-10
Silicon (Si)-Dissolved			106		%		63-138	14-SEP-10
Silver (Ag)-Dissolved			97		%		63-138	14-SEP-10
Sodium (Na)-Dissolved			97		%		80-120	14-SEP-10
Strontium (Sr)-Dissolved			98		%		80-120	14-SEP-10
Tellurium (Te)-Dissolved			98		%		80-120	14-SEP-10
Thallium (Tl)-Dissolved			97		%		80-120	14-SEP-10
Thorium (Th)-Dissolved			101		%		63-138	14-SEP-10
Tin (Sn)-Dissolved			97		%		80-120	14-SEP-10
Titanium (Ti)-Dissolved			97		%		80-120	14-SEP-10
Tungsten (W)-Dissolved			99		%		80-120	14-SEP-10
Uranium (U)-Dissolved			96		%		80-120	14-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1466443							
WG1167008-3	CVS							
Vanadium (V)-Dissolved			98		%		80-120	14-SEP-10
Zinc (Zn)-Dissolved			98		%		80-120	14-SEP-10
Zirconium (Zr)-Dissolved			102		%		80-120	14-SEP-10
WG1167005-4	DUP		WG1167005-3					
Aluminum (Al)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	14-SEP-10
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	14-SEP-10
Arsenic (As)-Dissolved		0.00125	0.00126	J	mg/L	0.00001	0.0008	14-SEP-10
Barium (Ba)-Dissolved		0.0191	0.0190		mg/L	0.81	20	14-SEP-10
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	14-SEP-10
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	14-SEP-10
Boron (B)-Dissolved		0.010	<0.010	RPD-NA	mg/L	N/A	20	14-SEP-10
Cadmium (Cd)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	14-SEP-10
Calcium (Ca)-Dissolved		30.0	29.9		mg/L	0.62	20	14-SEP-10
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	14-SEP-10
Chromium (Cr)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	14-SEP-10
Cobalt (Co)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	14-SEP-10
Copper (Cu)-Dissolved		0.00033	0.00031	J	mg/L	0.00002	0.0008	14-SEP-10
Iron (Fe)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	14-SEP-10
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	14-SEP-10
Lithium (Li)-Dissolved		<0.0020	0.0021	RPD-NA	mg/L	N/A	20	14-SEP-10
Magnesium (Mg)-Dissolved		21.3	21.6		mg/L	1.8	20	14-SEP-10
Manganese (Mn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	14-SEP-10
Molybdenum (Mo)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	14-SEP-10
Nickel (Ni)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	14-SEP-10
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	20	14-SEP-10
Potassium (K)-Dissolved		0.981	0.978		mg/L	0.31	20	14-SEP-10
Rubidium (Rb)-Dissolved		0.00140	0.00138	J	mg/L	0.00002	0.0008	14-SEP-10
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	14-SEP-10
Silicon (Si)-Dissolved		5.51	5.41		mg/L	1.8	20	14-SEP-10
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	14-SEP-10
Sodium (Na)-Dissolved		1.23	1.23		mg/L	0.29	20	14-SEP-10
Strontium (Sr)-Dissolved		0.0238	0.0243		mg/L	2.2	20	14-SEP-10
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	14-SEP-10



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1466443							
WG1167005-4	DUP	WG1167005-3						
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	14-SEP-10
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	14-SEP-10
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	14-SEP-10
Titanium (Ti)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	14-SEP-10
Tungsten (W)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	14-SEP-10
Uranium (U)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	14-SEP-10
Vanadium (V)-Dissolved		0.00145	0.00152	J	mg/L	0.00007	0.0008	14-SEP-10
Zinc (Zn)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	14-SEP-10
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	14-SEP-10
WG1167005-2	LCS							
Aluminum (Al)-Dissolved			107		%		80-120	14-SEP-10
Antimony (Sb)-Dissolved			99		%		80-120	14-SEP-10
Arsenic (As)-Dissolved			104		%		80-120	14-SEP-10
Barium (Ba)-Dissolved			108		%		80-120	14-SEP-10
Beryllium (Be)-Dissolved			105		%		80-120	14-SEP-10
Bismuth (Bi)-Dissolved			102		%		80-120	14-SEP-10
Boron (B)-Dissolved			105		%		80-120	14-SEP-10
Cadmium (Cd)-Dissolved			104		%		80-120	14-SEP-10
Calcium (Ca)-Dissolved			104		%		80-120	14-SEP-10
Cesium (Cs)-Dissolved			110		%		80-120	14-SEP-10
Chromium (Cr)-Dissolved			106		%		80-120	14-SEP-10
Cobalt (Co)-Dissolved			111		%		80-120	14-SEP-10
Copper (Cu)-Dissolved			106		%		80-120	14-SEP-10
Iron (Fe)-Dissolved			107		%		80-120	14-SEP-10
Lead (Pb)-Dissolved			99		%		80-120	14-SEP-10
Lithium (Li)-Dissolved			105		%		80-120	14-SEP-10
Magnesium (Mg)-Dissolved			108		%		80-120	14-SEP-10
Manganese (Mn)-Dissolved			108		%		80-120	14-SEP-10
Molybdenum (Mo)-Dissolved			109		%		80-120	14-SEP-10
Nickel (Ni)-Dissolved			105		%		80-120	14-SEP-10
Phosphorus (P)-Dissolved			112		%		80-120	14-SEP-10
Potassium (K)-Dissolved			105		%		80-120	14-SEP-10
Rubidium (Rb)-Dissolved			111		%		80-120	14-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1466443							
WG1167005-2 LCS								
Selenium (Se)-Dissolved			105		%		80-120	14-SEP-10
Silicon (Si)-Dissolved			117		%		80-120	14-SEP-10
Silver (Ag)-Dissolved			108		%		80-120	14-SEP-10
Sodium (Na)-Dissolved			108		%		80-120	14-SEP-10
Strontium (Sr)-Dissolved			103		%		80-120	14-SEP-10
Tellurium (Te)-Dissolved			106		%		80-120	14-SEP-10
Thallium (Tl)-Dissolved			100		%		80-120	14-SEP-10
Thorium (Th)-Dissolved			98		%		80-120	14-SEP-10
Tin (Sn)-Dissolved			104		%		80-120	14-SEP-10
Titanium (Ti)-Dissolved			105		%		80-120	14-SEP-10
Tungsten (W)-Dissolved			104		%		80-120	14-SEP-10
Uranium (U)-Dissolved			107		%		80-120	14-SEP-10
Vanadium (V)-Dissolved			108		%		80-120	14-SEP-10
Zinc (Zn)-Dissolved			104		%		80-120	14-SEP-10
Zirconium (Zr)-Dissolved			107		%		80-120	14-SEP-10
WG1167005-1 MB								
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.002	14-SEP-10
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.0002	14-SEP-10
Arsenic (As)-Dissolved			<0.00020		mg/L		0.0002	14-SEP-10
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0002	14-SEP-10
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	14-SEP-10
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0002	14-SEP-10
Boron (B)-Dissolved			<0.010		mg/L		0.01	14-SEP-10
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	14-SEP-10
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	14-SEP-10
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0001	14-SEP-10
Chromium (Cr)-Dissolved			<0.00020		mg/L		0.0002	14-SEP-10
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0002	14-SEP-10
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	14-SEP-10
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	14-SEP-10
Lead (Pb)-Dissolved			<0.000090		mg/L		0.00009	14-SEP-10
Lithium (Li)-Dissolved			<0.0020		mg/L		0.002	14-SEP-10
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.01	14-SEP-10
Manganese (Mn)-Dissolved			<0.00020		mg/L		0.0002	14-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1466443							
WG1167005-1	MB							
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0001	14-SEP-10
Nickel (Ni)-Dissolved			<0.00020		mg/L		0.0002	14-SEP-10
Phosphorus (P)-Dissolved			<0.10		mg/L		0.1	14-SEP-10
Potassium (K)-Dissolved			<0.020		mg/L		0.02	14-SEP-10
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	14-SEP-10
Selenium (Se)-Dissolved			<0.0010		mg/L		0.001	14-SEP-10
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	14-SEP-10
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	14-SEP-10
Sodium (Na)-Dissolved			<0.020		mg/L		0.02	14-SEP-10
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	14-SEP-10
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	14-SEP-10
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	14-SEP-10
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	14-SEP-10
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0002	14-SEP-10
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.0002	14-SEP-10
Tungsten (W)-Dissolved			<0.0010		mg/L		0.001	14-SEP-10
Uranium (U)-Dissolved			<0.00010		mg/L		0.0001	14-SEP-10
Vanadium (V)-Dissolved			<0.00020		mg/L		0.0002	14-SEP-10
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.002	14-SEP-10
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.0004	14-SEP-10
Batch	R1469485							
WG1168532-4	CCV							
Silicon (Si)-Dissolved			95		%		90-110	16-SEP-10
Vanadium (V)-Dissolved			96		%		90-110	16-SEP-10
WG1168532-2	CVS							
Silicon (Si)-Dissolved			93		%		63-138	16-SEP-10
Vanadium (V)-Dissolved			97		%		80-120	16-SEP-10
WG1168532-3	CVS							
Silicon (Si)-Dissolved			97		%		63-138	16-SEP-10
Vanadium (V)-Dissolved			96		%		80-120	16-SEP-10

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



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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1467932							
WG1167731-3	CCV							
Aluminum (Al)-Total			96		%		90-110	15-SEP-10
Antimony (Sb)-Total			101		%		90-110	15-SEP-10
Arsenic (As)-Total			100		%		90-110	15-SEP-10
Barium (Ba)-Total			100		%		90-110	15-SEP-10
Beryllium (Be)-Total			99		%		90-110	15-SEP-10
Bismuth (Bi)-Total			98		%		90-110	15-SEP-10
Boron (B)-Total			96		%		90-110	15-SEP-10
Cadmium (Cd)-Total			99		%		90-110	15-SEP-10
Calcium (Ca)-Total			97		%		90-110	15-SEP-10
Cesium (Cs)-Total			99		%		90-110	15-SEP-10
Chromium (Cr)-Total			100		%		90-110	15-SEP-10
Cobalt (Co)-Total			98		%		90-110	15-SEP-10
Copper (Cu)-Total			101		%		90-110	15-SEP-10
Iron (Fe)-Total			102		%		90-110	15-SEP-10
Lead (Pb)-Total			100		%		90-110	15-SEP-10
Lithium (Li)-Total			95		%		90-110	15-SEP-10
Magnesium (Mg)-Total			102		%		90-110	15-SEP-10
Manganese (Mn)-Total			97		%		90-110	15-SEP-10
Molybdenum (Mo)-Total			99		%		90-110	15-SEP-10
Nickel (Ni)-Total			100		%		90-110	15-SEP-10
Phosphorus (P)-Total			97		%		90-110	15-SEP-10
Potassium (K)-Total			101		%		90-110	15-SEP-10
Rubidium (Rb)-Total			96		%		90-110	15-SEP-10
Selenium (Se)-Total			100		%		90-110	15-SEP-10
Silicon (Si)-Total			97		%		90-110	15-SEP-10
Silver (Ag)-Total			101		%		90-110	15-SEP-10
Sodium (Na)-Total			102		%		90-110	15-SEP-10
Strontium (Sr)-Total			97		%		90-110	15-SEP-10
Tellurium (Te)-Total			104		%		90-110	15-SEP-10
Thallium (Tl)-Total			99		%		90-110	15-SEP-10
Thorium (Th)-Total			98		%		63-138	15-SEP-10
Tin (Sn)-Total			101		%		90-110	15-SEP-10
Titanium (Ti)-Total			99		%		90-110	15-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1467932							
WG1167731-3 CCV								
Tungsten (W)-Total			101		%		90-110	15-SEP-10
Uranium (U)-Total			98		%		90-110	15-SEP-10
Vanadium (V)-Total			97		%		90-110	15-SEP-10
Zinc (Zn)-Total			99		%		90-110	15-SEP-10
Zirconium (Zr)-Total			97		%		90-110	15-SEP-10
WG1167731-1 CVS								
Aluminum (Al)-Total			98		%		63-138	15-SEP-10
Antimony (Sb)-Total			101		%		63-138	15-SEP-10
Arsenic (As)-Total			101		%		63-138	15-SEP-10
Barium (Ba)-Total			100		%		63-138	15-SEP-10
Beryllium (Be)-Total			98		%		63-138	15-SEP-10
Bismuth (Bi)-Total			98		%		63-138	15-SEP-10
Boron (B)-Total			97		%		63-138	15-SEP-10
Cadmium (Cd)-Total			99		%		63-138	15-SEP-10
Calcium (Ca)-Total			104		%		63-138	15-SEP-10
Cesium (Cs)-Total			97		%		63-138	15-SEP-10
Chromium (Cr)-Total			103		%		63-138	15-SEP-10
Cobalt (Co)-Total			101		%		63-138	15-SEP-10
Copper (Cu)-Total			103		%		63-138	15-SEP-10
Iron (Fe)-Total			102		%		63-138	15-SEP-10
Lead (Pb)-Total			100		%		63-138	15-SEP-10
Lithium (Li)-Total			95		%		63-138	15-SEP-10
Magnesium (Mg)-Total			101		%		63-138	15-SEP-10
Manganese (Mn)-Total			99		%		63-138	15-SEP-10
Molybdenum (Mo)-Total			101		%		63-138	15-SEP-10
Nickel (Ni)-Total			102		%		63-138	15-SEP-10
Phosphorus (P)-Total			95		%		63-138	15-SEP-10
Potassium (K)-Total			100		%		63-138	15-SEP-10
Rubidium (Rb)-Total			97		%		63-138	15-SEP-10
Selenium (Se)-Total			99		%		63-138	15-SEP-10
Silicon (Si)-Total			98		%		63-138	15-SEP-10
Silver (Ag)-Total			98		%		63-138	15-SEP-10
Sodium (Na)-Total			99		%		63-138	15-SEP-10
Strontium (Sr)-Total			96		%		63-138	15-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1467932							
WG1167731-1 CVS								
Tellurium (Te)-Total			103		%		63-138	15-SEP-10
Thallium (Tl)-Total			97		%		63-138	15-SEP-10
Thorium (Th)-Total			102		%		63-138	15-SEP-10
Tin (Sn)-Total			99		%		63-138	15-SEP-10
Titanium (Ti)-Total			97		%		63-138	15-SEP-10
Tungsten (W)-Total			99		%		63-138	15-SEP-10
Uranium (U)-Total			97		%		63-138	15-SEP-10
Vanadium (V)-Total			101		%		63-138	15-SEP-10
Zinc (Zn)-Total			103		%		63-138	15-SEP-10
Zirconium (Zr)-Total			98		%		63-138	15-SEP-10
WG1167731-2 CVS								
Aluminum (Al)-Total			102		%		63-138	15-SEP-10
Antimony (Sb)-Total			103		%		63-138	15-SEP-10
Arsenic (As)-Total			100		%		63-138	15-SEP-10
Barium (Ba)-Total			102		%		63-138	15-SEP-10
Beryllium (Be)-Total			98		%		63-138	15-SEP-10
Bismuth (Bi)-Total			101		%		63-138	15-SEP-10
Boron (B)-Total			99		%		63-138	15-SEP-10
Cadmium (Cd)-Total			102		%		63-138	15-SEP-10
Calcium (Ca)-Total			101		%		63-138	15-SEP-10
Cesium (Cs)-Total			101		%		63-138	15-SEP-10
Chromium (Cr)-Total			102		%		63-138	15-SEP-10
Cobalt (Co)-Total			104		%		63-138	15-SEP-10
Copper (Cu)-Total			100		%		63-138	15-SEP-10
Iron (Fe)-Total			106		%		63-138	15-SEP-10
Lead (Pb)-Total			102		%		63-138	15-SEP-10
Lithium (Li)-Total			96		%		63-138	15-SEP-10
Magnesium (Mg)-Total			101		%		63-138	15-SEP-10
Manganese (Mn)-Total			102		%		63-138	15-SEP-10
Molybdenum (Mo)-Total			102		%		63-138	15-SEP-10
Nickel (Ni)-Total			99		%		63-138	15-SEP-10
Phosphorus (P)-Total			96		%		63-138	15-SEP-10
Potassium (K)-Total			98		%		63-138	15-SEP-10
Rubidium (Rb)-Total			104		%		63-138	15-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1467932							
WG1167731-2 CVS								
Selenium (Se)-Total			98		%		63-138	15-SEP-10
Silicon (Si)-Total			102		%		63-138	15-SEP-10
Silver (Ag)-Total			102		%		63-138	15-SEP-10
Sodium (Na)-Total			100		%		63-138	15-SEP-10
Strontium (Sr)-Total			101		%		63-138	15-SEP-10
Tellurium (Te)-Total			98		%		63-138	15-SEP-10
Thallium (Tl)-Total			101		%		63-138	15-SEP-10
Thorium (Th)-Total			103		%		63-138	15-SEP-10
Tin (Sn)-Total			103		%		63-138	15-SEP-10
Titanium (Ti)-Total			97		%		63-138	15-SEP-10
Tungsten (W)-Total			102		%		63-138	15-SEP-10
Uranium (U)-Total			102		%		63-138	15-SEP-10
Vanadium (V)-Total			105		%		63-138	15-SEP-10
Zinc (Zn)-Total			99		%		63-138	15-SEP-10
Zirconium (Zr)-Total			101		%		63-138	15-SEP-10
WG1167153-4 DUP		WG1167153-3						
Aluminum (Al)-Total		0.0292	0.0536	J,G	mg/L	0.0244	0.02	15-SEP-10
Antimony (Sb)-Total		0.171	0.180		mg/L	5.2	20	15-SEP-10
Arsenic (As)-Total		0.538	0.541		mg/L	0.56	20	15-SEP-10
Barium (Ba)-Total		0.0597	0.0630		mg/L	5.3	20	15-SEP-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Boron (B)-Total		0.287	0.284		mg/L	1.1	20	15-SEP-10
Cadmium (Cd)-Total		0.000052	0.000054	J	mg/L	0.000002	0.00004	15-SEP-10
Calcium (Ca)-Total		290	283		mg/L	2.5	20	15-SEP-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	15-SEP-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	15-SEP-10
Cobalt (Co)-Total		0.0633	0.0644		mg/L	1.7	20	15-SEP-10
Copper (Cu)-Total		0.00534	0.00557		mg/L	4.2	20	15-SEP-10
Iron (Fe)-Total		<0.020	<0.020	RPD-NA	mg/L	N/A	20	15-SEP-10
Lead (Pb)-Total		0.000259	0.000284	J	mg/L	0.000025	0.00036	15-SEP-10
Lithium (Li)-Total		0.0330	0.0347		mg/L	5.1	20	15-SEP-10
Magnesium (Mg)-Total		51.4	52.4		mg/L	1.9	20	15-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1467932							
WG1167153-4 DUP		WG1167153-3						
Manganese (Mn)-Total		0.144	0.153		mg/L	5.7	20	15-SEP-10
Molybdenum (Mo)-Total		0.0178	0.0184		mg/L	3.2	20	15-SEP-10
Nickel (Ni)-Total		0.0132	0.0130	J	mg/L	0.0002	0.008	15-SEP-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	15-SEP-10
Potassium (K)-Total		36.5	37.4		mg/L	2.6	20	15-SEP-10
Rubidium (Rb)-Total		0.0120	0.0129		mg/L	7.1	20	15-SEP-10
Selenium (Se)-Total		0.0039	0.0042	J	mg/L	0.0003	0.004	15-SEP-10
Silicon (Si)-Total		2.90	2.88		mg/L	0.86	20	15-SEP-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	15-SEP-10
Sodium (Na)-Total		147	154		mg/L	4.5	20	15-SEP-10
Strontium (Sr)-Total		1.75	1.73		mg/L	1.2	20	15-SEP-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	15-SEP-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	15-SEP-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Titanium (Ti)-Total		0.00458	0.00516		mg/L	12	20	15-SEP-10
Tungsten (W)-Total		0.0042	0.0044	J	mg/L	0.0002	0.004	15-SEP-10
Uranium (U)-Total		0.00102	0.00114		mg/L	11	20	15-SEP-10
Vanadium (V)-Total		0.00111	0.00121	J	mg/L	0.00010	0.0008	15-SEP-10
Zinc (Zn)-Total		0.0082	0.0080	J	mg/L	0.0002	0.02	15-SEP-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	15-SEP-10
WG1167153-6 DUP		WG1167153-5						
Aluminum (Al)-Total		0.0066	0.0067	J	mg/L	0.0001	0.02	15-SEP-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Arsenic (As)-Total		0.00115	0.00110	J	mg/L	0.00004	0.0008	15-SEP-10
Barium (Ba)-Total		0.0191	0.0190		mg/L	0.59	20	15-SEP-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	15-SEP-10
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	15-SEP-10
Calcium (Ca)-Total		38.4	37.6		mg/L	1.9	20	15-SEP-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	15-SEP-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	15-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
99 COMMERCE DRIVE
WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1467932							
WG1167153-6	DUP	WG1167153-5						
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Copper (Cu)-Total		0.00044	0.00044	J	mg/L	0.00000	0.0008	15-SEP-10
Iron (Fe)-Total		<0.020	<0.020	RPD-NA	mg/L	N/A	20	15-SEP-10
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	15-SEP-10
Lithium (Li)-Total		0.0029	0.0027	J	mg/L	0.0002	0.008	15-SEP-10
Magnesium (Mg)-Total		24.0	23.7		mg/L	1.3	20	15-SEP-10
Manganese (Mn)-Total		0.00566	0.00561		mg/L	0.98	20	15-SEP-10
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	15-SEP-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	15-SEP-10
Potassium (K)-Total		1.22	1.21		mg/L	0.081	20	15-SEP-10
Rubidium (Rb)-Total		0.00145	0.00147	J	mg/L	0.00002	0.0008	15-SEP-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	15-SEP-10
Silicon (Si)-Total		5.49	5.54		mg/L	0.85	20	15-SEP-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	15-SEP-10
Sodium (Na)-Total		1.38	1.35		mg/L	2.4	20	15-SEP-10
Strontium (Sr)-Total		0.0263	0.0267		mg/L	1.6	20	15-SEP-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	15-SEP-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	15-SEP-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Titanium (Ti)-Total		0.00027	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	15-SEP-10
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	15-SEP-10
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	15-SEP-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	15-SEP-10
WG1167154-4	DUP	WG1167154-3						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	15-SEP-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Arsenic (As)-Total		0.00044	0.00047	J	mg/L	0.00003	0.0008	15-SEP-10
Barium (Ba)-Total		0.00499	0.00501		mg/L	0.34	20	15-SEP-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
99 COMMERCE DRIVE
WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1467932							
WG1167154-4	DUP	WG1167154-3						
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Boron (B)-Total		0.410	0.418		mg/L	2.1	20	15-SEP-10
Cadmium (Cd)-Total		0.000016	0.000012	J	mg/L	0.000004	0.00004	15-SEP-10
Calcium (Ca)-Total		144	140		mg/L	3.4	20	15-SEP-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	15-SEP-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	15-SEP-10
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Copper (Cu)-Total		0.00113	0.00100	J	mg/L	0.00013	0.0008	15-SEP-10
Iron (Fe)-Total		13.8	13.7		mg/L	1.1	20	15-SEP-10
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	15-SEP-10
Lithium (Li)-Total		0.146	0.150		mg/L	2.7	20	15-SEP-10
Magnesium (Mg)-Total		97.6	97.8		mg/L	0.27	20	15-SEP-10
Manganese (Mn)-Total		0.824	0.833		mg/L	1.0	20	15-SEP-10
Molybdenum (Mo)-Total		0.00629	0.00642		mg/L	2.1	20	15-SEP-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	15-SEP-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	15-SEP-10
Potassium (K)-Total		7.46	7.58		mg/L	1.6	20	15-SEP-10
Rubidium (Rb)-Total		0.00254	0.00256		mg/L	0.86	20	15-SEP-10
Selenium (Se)-Total		0.0018	0.0019	J	mg/L	0.0001	0.004	15-SEP-10
Silicon (Si)-Total		8.16	8.00		mg/L	2.0	20	15-SEP-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	15-SEP-10
Sodium (Na)-Total		384	383		mg/L	0.17	20	15-SEP-10
Strontium (Sr)-Total		0.950	0.949		mg/L	0.076	20	15-SEP-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	15-SEP-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	15-SEP-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Titanium (Ti)-Total		0.00235	0.00225		mg/L	4.6	20	15-SEP-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	15-SEP-10
Uranium (U)-Total		0.00315	0.00321		mg/L	1.8	20	15-SEP-10
Vanadium (V)-Total		0.00402	0.00430		mg/L	6.5	20	15-SEP-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	15-SEP-10
Zirconium (Zr)-Total		<0.00040	<0.00040		mg/L			15-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1467932							
WG1167154-4 DUP		WG1167154-3						
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	15-SEP-10
WG1167154-6 DUP		WG1167154-5						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	15-SEP-10
Antimony (Sb)-Total		0.00670	0.00672		mg/L	0.27	20	15-SEP-10
Arsenic (As)-Total		0.0299	0.0300		mg/L	0.33	20	15-SEP-10
Barium (Ba)-Total		0.0327	0.0333		mg/L	1.6	20	15-SEP-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Boron (B)-Total		0.054	0.054	J	mg/L	0.000	0.04	15-SEP-10
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	15-SEP-10
Calcium (Ca)-Total		67.2	68.0		mg/L	1.2	20	15-SEP-10
Cesium (Cs)-Total		0.00030	0.00030	J	mg/L	0.00000	0.0004	15-SEP-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	15-SEP-10
Cobalt (Co)-Total		0.00132	0.00131	J	mg/L	0.00001	0.0008	15-SEP-10
Copper (Cu)-Total		0.00386	0.00386		mg/L	0.026	20	15-SEP-10
Iron (Fe)-Total		0.671	0.674		mg/L	0.42	20	15-SEP-10
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	15-SEP-10
Lithium (Li)-Total		0.0304	0.0299		mg/L	1.6	20	15-SEP-10
Magnesium (Mg)-Total		31.1	30.9		mg/L	0.69	20	15-SEP-10
Manganese (Mn)-Total		0.189	0.188		mg/L	0.73	20	15-SEP-10
Molybdenum (Mo)-Total		0.00113	0.00115	J	mg/L	0.00003	0.0008	15-SEP-10
Nickel (Ni)-Total		0.0169	0.0170	J	mg/L	0.0001	0.008	15-SEP-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	15-SEP-10
Potassium (K)-Total		5.63	5.58		mg/L	0.94	20	15-SEP-10
Rubidium (Rb)-Total		0.00686	0.00706		mg/L	2.8	20	15-SEP-10
Selenium (Se)-Total		0.0013	0.0012	J	mg/L	0.0001	0.004	15-SEP-10
Silicon (Si)-Total		3.64	3.93		mg/L	7.5	20	15-SEP-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	15-SEP-10
Sodium (Na)-Total		57.3	58.5		mg/L	2.0	20	15-SEP-10
Strontium (Sr)-Total		0.812	0.833		mg/L	2.5	20	15-SEP-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	15-SEP-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	15-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
99 COMMERCE DRIVE
WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1467932							
WG1167154-6	DUP	WG1167154-5						
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	15-SEP-10
Titanium (Ti)-Total		0.00058	0.00046	J	mg/L	0.00012	0.0008	15-SEP-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	15-SEP-10
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	15-SEP-10
Vanadium (V)-Total		0.00041	0.00041	J	mg/L	0.00000	0.0008	15-SEP-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	15-SEP-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	15-SEP-10
WG1167153-2	LCS							
Aluminum (Al)-Total			102		%		80-120	15-SEP-10
Antimony (Sb)-Total			104		%		80-120	15-SEP-10
Arsenic (As)-Total			103		%		80-120	15-SEP-10
Barium (Ba)-Total			100		%		80-120	15-SEP-10
Beryllium (Be)-Total			104		%		80-120	15-SEP-10
Bismuth (Bi)-Total			100		%		80-120	15-SEP-10
Boron (B)-Total			98		%		80-120	15-SEP-10
Cadmium (Cd)-Total			98		%		80-120	15-SEP-10
Calcium (Ca)-Total			100		%		80-120	15-SEP-10
Cesium (Cs)-Total			95		%		80-120	15-SEP-10
Chromium (Cr)-Total			105		%		80-120	15-SEP-10
Cobalt (Co)-Total			103		%		80-120	15-SEP-10
Copper (Cu)-Total			106		%		80-120	15-SEP-10
Iron (Fe)-Total			100		%		80-120	15-SEP-10
Lead (Pb)-Total			99		%		80-120	15-SEP-10
Lithium (Li)-Total			95		%		80-120	15-SEP-10
Magnesium (Mg)-Total			106		%		80-120	15-SEP-10
Manganese (Mn)-Total			98		%		80-120	15-SEP-10
Molybdenum (Mo)-Total			102		%		80-120	15-SEP-10
Nickel (Ni)-Total			102		%		80-120	15-SEP-10
Phosphorus (P)-Total			100		%		80-120	15-SEP-10
Potassium (K)-Total			102		%		80-120	15-SEP-10
Rubidium (Rb)-Total			100		%		80-120	15-SEP-10
Selenium (Se)-Total			100		%		80-120	15-SEP-10
Silicon (Si)-Total			105		%		80-120	15-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1467932							
WG1167153-2	LCS							
Silver (Ag)-Total			101		%		80-120	15-SEP-10
Sodium (Na)-Total			105		%		80-120	15-SEP-10
Strontium (Sr)-Total			99		%		80-120	15-SEP-10
Tellurium (Te)-Total			103		%		80-120	15-SEP-10
Thallium (Tl)-Total			101		%		80-120	15-SEP-10
Thorium (Th)-Total			98		%		63-138	15-SEP-10
Tin (Sn)-Total			103		%		80-120	15-SEP-10
Titanium (Ti)-Total			102		%		80-120	15-SEP-10
Tungsten (W)-Total			98		%		80-120	15-SEP-10
Uranium (U)-Total			95		%		80-120	15-SEP-10
Vanadium (V)-Total			104		%		80-120	15-SEP-10
Zinc (Zn)-Total			102		%		80-120	15-SEP-10
Zirconium (Zr)-Total			98		%		80-120	15-SEP-10
WG1167154-2	LCS							
Aluminum (Al)-Total			103		%		80-120	15-SEP-10
Antimony (Sb)-Total			100		%		80-120	15-SEP-10
Arsenic (As)-Total			109		%		80-120	15-SEP-10
Barium (Ba)-Total			98		%		80-120	15-SEP-10
Beryllium (Be)-Total			113		%		80-120	15-SEP-10
Bismuth (Bi)-Total			92		%		80-120	15-SEP-10
Boron (B)-Total			119		%		80-120	15-SEP-10
Cadmium (Cd)-Total			97		%		80-120	15-SEP-10
Calcium (Ca)-Total			90		%		80-120	15-SEP-10
Cesium (Cs)-Total			98		%		80-120	15-SEP-10
Chromium (Cr)-Total			100		%		80-120	15-SEP-10
Cobalt (Co)-Total			97		%		80-120	15-SEP-10
Copper (Cu)-Total			101		%		80-120	15-SEP-10
Iron (Fe)-Total			85		%		80-120	15-SEP-10
Lead (Pb)-Total			89		%		80-120	15-SEP-10
Lithium (Li)-Total			88		%		80-120	15-SEP-10
Magnesium (Mg)-Total			98		%		80-120	15-SEP-10
Manganese (Mn)-Total			93		%		80-120	15-SEP-10
Molybdenum (Mo)-Total			98		%		80-120	15-SEP-10
Nickel (Ni)-Total			98		%		80-120	15-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1467932							
WG1167154-2 LCS								
Phosphorus (P)-Total			94		%		80-120	15-SEP-10
Potassium (K)-Total			88		%		80-120	15-SEP-10
Rubidium (Rb)-Total			89		%		80-120	15-SEP-10
Selenium (Se)-Total			109		%		80-120	15-SEP-10
Silicon (Si)-Total			102		%		80-120	15-SEP-10
Silver (Ag)-Total			102		%		80-120	15-SEP-10
Sodium (Na)-Total			99		%		80-120	15-SEP-10
Strontium (Sr)-Total			90		%		80-120	15-SEP-10
Tellurium (Te)-Total			99		%		80-120	15-SEP-10
Thallium (Tl)-Total			93		%		80-120	15-SEP-10
Thorium (Th)-Total			90		%		63-138	15-SEP-10
Tin (Sn)-Total			99		%		80-120	15-SEP-10
Titanium (Ti)-Total			100		%		80-120	15-SEP-10
Tungsten (W)-Total			95		%		80-120	15-SEP-10
Uranium (U)-Total			84		%		80-120	15-SEP-10
Vanadium (V)-Total			103		%		80-120	15-SEP-10
Zinc (Zn)-Total			98		%		80-120	15-SEP-10
Zirconium (Zr)-Total			90		%		80-120	15-SEP-10
WG1167153-1 MB								
Aluminum (Al)-Total			<0.0050		mg/L		0.005	15-SEP-10
Antimony (Sb)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Arsenic (As)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Barium (Ba)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Beryllium (Be)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Bismuth (Bi)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Boron (B)-Total			<0.010		mg/L		0.01	15-SEP-10
Cadmium (Cd)-Total			<0.000010		mg/L		0.00001	15-SEP-10
Calcium (Ca)-Total			<0.10		mg/L		0.1	15-SEP-10
Cesium (Cs)-Total			<0.00010		mg/L		0.0001	15-SEP-10
Chromium (Cr)-Total			<0.0010		mg/L		0.001	15-SEP-10
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Copper (Cu)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Iron (Fe)-Total			<0.020		mg/L		0.02	15-SEP-10
Lead (Pb)-Total			<0.000090		mg/L		0.00009	15-SEP-10



Quality Control Report

Workorder: L930932

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Client: AECOM Canada Ltd. (Winnipeg)
99 COMMERCE DRIVE
WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1467932							
WG1167153-1 MB								
Lithium (Li)-Total			<0.0020		mg/L		0.002	15-SEP-10
Magnesium (Mg)-Total			<0.010		mg/L		0.01	15-SEP-10
Manganese (Mn)-Total			<0.00030		mg/L		0.0003	15-SEP-10
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Nickel (Ni)-Total			<0.0020		mg/L		0.002	15-SEP-10
Phosphorus (P)-Total			<0.20		mg/L		0.2	15-SEP-10
Potassium (K)-Total			<0.020		mg/L		0.02	15-SEP-10
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Selenium (Se)-Total			<0.0010		mg/L		0.001	15-SEP-10
Silicon (Si)-Total			<0.050		mg/L		0.05	15-SEP-10
Silver (Ag)-Total			<0.00010		mg/L		0.0001	15-SEP-10
Sodium (Na)-Total			<0.030		mg/L		0.03	15-SEP-10
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	15-SEP-10
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	15-SEP-10
Thorium (Th)-Total			<0.00010		mg/L		0.0001	15-SEP-10
Tin (Sn)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Titanium (Ti)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Tungsten (W)-Total			<0.0010		mg/L		0.001	15-SEP-10
Uranium (U)-Total			<0.00010		mg/L		0.0001	15-SEP-10
Vanadium (V)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Zinc (Zn)-Total			<0.0050		mg/L		0.005	15-SEP-10
Zirconium (Zr)-Total			<0.00040		mg/L		0.0004	15-SEP-10
WG1167154-1 MB								
Aluminum (Al)-Total			<0.0050		mg/L		0.005	15-SEP-10
Antimony (Sb)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Arsenic (As)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Barium (Ba)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Beryllium (Be)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Bismuth (Bi)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Boron (B)-Total			<0.010		mg/L		0.01	15-SEP-10
Cadmium (Cd)-Total			<0.000010		mg/L		0.00001	15-SEP-10
Calcium (Ca)-Total			<0.10		mg/L		0.1	15-SEP-10
Cesium (Cs)-Total			<0.00010		mg/L		0.0001	15-SEP-10



Quality Control Report

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Report Date: 21-OCT-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch R1467932								
WG1167154-1 MB								
Chromium (Cr)-Total			<0.0010		mg/L		0.001	15-SEP-10
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Copper (Cu)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Iron (Fe)-Total			<0.020		mg/L		0.02	15-SEP-10
Lead (Pb)-Total			<0.000090		mg/L		0.00009	15-SEP-10
Lithium (Li)-Total			<0.0020		mg/L		0.002	15-SEP-10
Magnesium (Mg)-Total			<0.010		mg/L		0.01	15-SEP-10
Manganese (Mn)-Total			<0.00030		mg/L		0.0003	15-SEP-10
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Nickel (Ni)-Total			<0.0020		mg/L		0.002	15-SEP-10
Phosphorus (P)-Total			<0.20		mg/L		0.2	15-SEP-10
Potassium (K)-Total			<0.020		mg/L		0.02	15-SEP-10
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Selenium (Se)-Total			<0.0010		mg/L		0.001	15-SEP-10
Silicon (Si)-Total			<0.050		mg/L		0.05	15-SEP-10
Silver (Ag)-Total			<0.00010		mg/L		0.0001	15-SEP-10
Sodium (Na)-Total			<0.030		mg/L		0.03	15-SEP-10
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	15-SEP-10
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	15-SEP-10
Thorium (Th)-Total			<0.00010		mg/L		0.0001	15-SEP-10
Tin (Sn)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Titanium (Ti)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Tungsten (W)-Total			<0.0010		mg/L		0.001	15-SEP-10
Uranium (U)-Total			<0.00010		mg/L		0.0001	15-SEP-10
Vanadium (V)-Total			<0.00020		mg/L		0.0002	15-SEP-10
Zinc (Zn)-Total			<0.0050		mg/L		0.005	15-SEP-10
Zirconium (Zr)-Total			<0.00040		mg/L		0.0004	15-SEP-10
Batch R1469485								
WG1168532-4 CCV								
Silicon (Si)-Total			95		%		90-110	16-SEP-10
Vanadium (V)-Total			96		%		90-110	16-SEP-10
WG1168532-2 CVS								
Silicon (Si)-Total			93		%		63-138	16-SEP-10



Quality Control Report

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R1469485							
WG1168532-2	CVS							
Vanadium (V)-Total			97		%		63-138	16-SEP-10
WG1168532-3	CVS							
Silicon (Si)-Total			97		%		63-138	16-SEP-10
Vanadium (V)-Total			96		%		63-138	16-SEP-10
N-TOTKJ-WP								
	Water							
Batch	R1467389							
WG1167487-2	CCV							
Total Kjeldahl Nitrogen			98		%		90-110	15-SEP-10
WG1167487-1	CVS							
Total Kjeldahl Nitrogen			96		%		90-110	15-SEP-10
WG1166841-4	DUP	L930932-1						
Total Kjeldahl Nitrogen		0.78	0.76	J	mg/L	0.02	0.8	15-SEP-10
WG1166841-2	LCS							
Total Kjeldahl Nitrogen			96		%		75-125	15-SEP-10
WG1166841-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	15-SEP-10
WG1166841-3	MS	L930932-1						
Total Kjeldahl Nitrogen			96		%		70-130	15-SEP-10
NH3-COL-WP								
	Water							
Batch	R1471124							
WG1169576-3	CCV							
Ammonia as N			101		%		63-138	17-SEP-10
WG1169576-5	DUP	L931358-4						
Ammonia as N		0.128	0.133	J	mg/L	0.004	0.2	17-SEP-10
WG1169576-2	LCS							
Ammonia as N			103		%		85-115	17-SEP-10
WG1169576-1	MB							
Ammonia as N			<0.050		mg/L		0.05	17-SEP-10
P-TOTAL-WP								
	Water							
Batch	R1466731							
WG1166975-1	CCV							
Phosphorus, Total			104		%		90-110	15-SEP-10
WG1166975-2	CCV							
Phosphorus, Total			96		%		90-110	15-SEP-10
WG1166898-2	CVS							
Phosphorus, Total			105		%		80-120	15-SEP-10



Quality Control Report

Workorder: L930932

Report Date: 21-OCT-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-TOTAL-WP		Water						
Batch	R1466731							
WG1166898-3	CVS							
Phosphorus, Total			96		%		80-120	15-SEP-10
WG1166898-4	DUP	L931066-10						
Phosphorus, Total		0.0687	0.0788		mg/L	14	20	15-SEP-10
WG1166898-1	MB							
Phosphorus, Total			<0.010		mg/L		0.01	15-SEP-10
WG1166898-5	MS	L930932-1						
Phosphorus, Total			106		%		70-130	15-SEP-10
PH-WP		Water						
Batch	R1466439							
WG1167009-4	CCV							
pH			97		%		90-110	14-SEP-10
WG1167009-3	CVS							
pH			100		%		99-101	14-SEP-10
WG1167009-7	DUP	L930932-4						
pH		8.52	8.52		pH units	0.023	5	14-SEP-10
SILICATE-COL-VA		Water						
Batch	R1505304							
WG1185094-3	CRM	VA-SIO2-CSPK1						
Silicate (as SIO2)			104		%		85-115	15-OCT-10
WG1185094-6	CRM	VA-SIO2-CSPK10						
Silicate (as SIO2)			109		%		85-115	15-OCT-10
WG1185094-9	CRM	VA-SIO2-CSPK1						
Silicate (as SIO2)			101		%		85-115	15-OCT-10
WG1185094-1	DUP	L934377-1						
Silicate (as SIO2)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	15-OCT-10
WG1185094-4	DUP	L943224-5						
Silicate (as SIO2)		5.6	5.9	J	mg/L	0.3	4	15-OCT-10
WG1185094-7	DUP	L943706-5						
Silicate (as SIO2)		5.4	5.1	J	mg/L	0.3	4	15-OCT-10
WG1185094-2	MB							
Silicate (as SIO2)			<1.0		mg/L		1	15-OCT-10
WG1185094-5	MB							
Silicate (as SIO2)			<1.0		mg/L		1	15-OCT-10
WG1185094-8	MB							
Silicate (as SIO2)			<1.0		mg/L		1	16-OCT-10
SOLIDS-TDS-WP		Water						



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Workorder: L930932

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOIOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TDS-WP		Water						
Batch	R1470778							
WG1168771-2	CVS							
Total Dissolved Solids			100		%		85-115	17-SEP-10
WG1168771-8	DUP	L932609-1						
Total Dissolved Solids		1650	1660		mg/L	0.60	20	17-SEP-10
WG1168771-9	DUP	L932634-3						
Total Dissolved Solids		370	386		mg/L	4.2	20	17-SEP-10
WG1168771-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	17-SEP-10
SOLIDS-TOTSUS-WP		Water						
Batch	R1471347							
WG1168771-2	CVS							
Total Suspended Solids			98		%		85-115	17-SEP-10
WG1168771-5	DUP	L931282-1						
Total Suspended Solids		16.0	18.0	J	mg/L	2.0	20	17-SEP-10
WG1168771-6	DUP	L931282-2						
Total Suspended Solids		232	228		mg/L	1.7	20	17-SEP-10
WG1168771-7	DUP	L931366-1						
Total Suspended Solids		202	207		mg/L	2.3	20	17-SEP-10
WG1168771-8	DUP	L932609-1						
Total Suspended Solids		470	420		mg/L	11	20	17-SEP-10
WG1168771-1	MB							
Total Suspended Solids			<5.0		mg/L		5	17-SEP-10
TURBIDITY-WP		Water						
Batch	R1466083							
WG1166821-4	CCV							
Turbidity			103		%		90-110	14-SEP-10
WG1166821-5	CCV							
Turbidity			104		%		90-110	14-SEP-10
WG1166821-2	CVS							
Turbidity			97		%		63-138	14-SEP-10
WG1166821-3	CVS							
Turbidity			100		%		63-138	14-SEP-10
WG1166821-7	DUP	L930932-3						
Turbidity		1.73	1.77		NTU	2.3	15	14-SEP-10
WG1166821-6	LCS							
Turbidity			101		%		85-115	14-SEP-10
WG1166821-1	MB							
Turbidity			<0.10		NTU		0.1	14-SEP-10

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Legend:

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

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L930932

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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	12-SEP-10	14-SEP-10 16:27	0.25	53	hours	EHTR-FM
	2	12-SEP-10	14-SEP-10 16:27	0.25	53	hours	EHTR-FM
	3	12-SEP-10	14-SEP-10 16:27	0.25	53	hours	EHTR-FM
	4	12-SEP-10	14-SEP-10 16:27	0.25	53	hours	EHTR-FM
Anions and Nutrients							
Anions scan (IC)							
	1	12-SEP-10	14-SEP-10 15:19	48	51	hours	EHTL
	2	12-SEP-10	14-SEP-10 15:19	48	51	hours	EHTL
	3	12-SEP-10	14-SEP-10 15:19	48	51	hours	EHTL
	4	12-SEP-10	14-SEP-10 15:19	48	51	hours	EHTL
Silicate by Colourimetric analysis							
	1	12-SEP-10	15-OCT-10 16:30	28	33	days	EHT
	2	12-SEP-10	15-OCT-10 16:30	28	33	days	EHT
	3	12-SEP-10	15-OCT-10 16:32	28	33	days	EHT
	4	12-SEP-10	15-OCT-10 16:33	28	33	days	EHT
Aggregate Organics							
Carbonaceous BOD							
	1	12-SEP-10	15-SEP-10 12:18	48	72	hours	EHTL
	2	12-SEP-10	15-SEP-10 12:18	48	72	hours	EHTL
	3	12-SEP-10	15-SEP-10 12:18	48	72	hours	EHTL
	4	12-SEP-10	15-SEP-10 12:18	48	72	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 L930932 were received on 14-SEP-10 09:05.

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			<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Regular (Default)		Surcharges apply	
Contact: Cliff Samoloff			<input checked="" type="checkbox"/> PDF	<input checked="" type="checkbox"/> Excel	<input type="checkbox"/> Digital	<input type="checkbox"/> Fax	<input type="checkbox"/> Priority (Specify Date Required → →)	
Address: 99 Commerce Drive			Email 1: shawna.kjartanson@aecom.com				<input type="checkbox"/> Emergency (1 Business Day) - 100% Surcharge	
Winnipeg, MB			Email 2: jeanne.dubouché@aecom.com				<input type="checkbox"/> For Emergency < 1 Day, ASAP or Weekend - Contact ALS	
Phone: 204-928-7427 Fax: 204-284-2040								
Invoice To			Client / Project Information				Analysis Request	
Same as Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Job #: 60160706				Please indicate below Filtered, Preserved or both (F, P, F/P)	
Company:			PO / AFE:				P	F/P
Contact:			LSD:					
Address:			Quote #: Q24534					
Phone:			ALS Contact: Christine Herrod					
Lab Work Order # (lab use only)			Sample Identification (This description will appear on the report)		Sampler:			Number of Containers
Sample #	Date	Time	Date (dd-mm-yy)	Time (hh:mm)	Time	Sample Type		
	U15-F10-WQ1		12-Sep-10			Water	Acidity X	7
	U15-F10-WQ2		12-Sep-10			"	chl a + pheo a X	7
	U13-F10-WQ1		"			"	BOD/CBOD X	
	U13-F10-WQ2		"			"	TOC + TIC X	
							Anions X	
							Tot. Metals + Hg X	
							Diss. Metals + Hg X	
							General Chemistry X	

Special Instructions / Regulations / 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)	
Released by: <i>[Signature]</i>	Date (dd-mm-yy): 12 Sep 10	Received by: <i>[Signature]</i>	Date: 14 Sep 10
	Time (hh-mm): 18:00	Time: 9:05	Temperature: 8.6 °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
Phone: 204-928-7427

Date Received: 15-SEP-10
Report Date: 21-OCT-10 14:00 (MT)
Version: FINAL REV. 3

Certificate of Analysis

Lab Work Order #: L931678
Project P.O. #: NOT SUBMITTED
Job Reference: 60160706
Legal Site Desc:
C of C Numbers:

Comments: ADDITIONAL 20-OCT-10 14:48
ADDITIONAL 28-SEP-10 13:43

08-OCT-10:
21-OCT-10:

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
MANITOBA TECHNOLOGY CENTRE LTD. Part of the ALS Group A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L931678-1 VL1-F10-WQ1							
Sampled By: CLIENT on 13-SEP-10 @ 10:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Note: Initial pH > Titration endpoint(pH 8.300)							
Ammonia as N	0.493		0.050	mg/L		17-SEP-10	R1471124
Bromide (Br)	<0.10		0.10	mg/L		14-SEP-10	R1468544
BOD Carbonaceous	<1.0		1.0	mg/L	15-SEP-10	20-SEP-10	R1471928
Colour, True	10.5		5.0	CU		15-SEP-10	R1467475
Dissolved Organic Carbon	21.6		1.0	mg/L		30-SEP-10	R1484485
Hardness (as CaCO3)	172		0.20	mg/L		17-SEP-10	
Hardness (as CaCO3)	182		0.30	mg/L		17-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473107
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	17-SEP-10	17-SEP-10	R1473006
Nitrate and Nitrite as N	<0.071		0.071	mg/L		20-OCT-10	
Phosphorus, Total	0.0164		0.0020	mg/L		16-SEP-10	R1468384
Silicate (as SiO2)	5.7		1.0	mg/L		21-SEP-10	R1474414
Total Dissolved Solids	214		5.0	mg/L		17-SEP-10	R1470778
Total Inorganic Carbon	36.0		1.0	mg/L		23-SEP-10	R1475140
Total Kjeldahl Nitrogen	2.18		0.20	mg/L	15-SEP-10	17-SEP-10	R1470252
Total Organic Carbon	21.3		1.0	mg/L		01-OCT-10	R1486213
Total Suspended Solids	6.0		5.0	mg/L		17-SEP-10	R1471347
Turbidity	1.38		0.10	NTU		15-SEP-10	R1468012
Anions scan (IC)							
Chloride	4.09		0.50	mg/L		15-SEP-10	R1468544
Fluoride	<0.10		0.10	mg/L		15-SEP-10	R1468544
Nitrite-N	<0.050		0.050	mg/L		15-SEP-10	R1468544
Nitrate-N	<0.050		0.050	mg/L		15-SEP-10	R1468544
Sulfate	<0.50		0.50	mg/L		15-SEP-10	R1468544
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	16-SEP-10	16-SEP-10	R1469666
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Arsenic (As)-Total	0.00107		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Barium (Ba)-Total	0.0177		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Boron (B)-Total	0.016		0.010	mg/L	16-SEP-10	16-SEP-10	R1469666
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	16-SEP-10	16-SEP-10	R1469666
Calcium (Ca)-Total	35.4		0.10	mg/L	16-SEP-10	16-SEP-10	R1469666
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	16-SEP-10	16-SEP-10	R1469666
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Copper (Cu)-Total	0.00028		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Iron (Fe)-Total	<0.020		0.020	mg/L	16-SEP-10	16-SEP-10	R1469666
Lead (Pb)-Total	<0.000090		0.000090	mg/L	16-SEP-10	16-SEP-10	R1469666
Lithium (Li)-Total	0.0034		0.0020	mg/L	16-SEP-10	16-SEP-10	R1469666
Magnesium (Mg)-Total	22.6		0.010	mg/L	16-SEP-10	16-SEP-10	R1469666
Manganese (Mn)-Total	0.00649		0.00030	mg/L	16-SEP-10	16-SEP-10	R1469666
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	16-SEP-10	16-SEP-10	R1469666
Phosphorus (P)-Total	<0.20		0.20	mg/L	16-SEP-10	16-SEP-10	R1469666
Potassium (K)-Total	1.05		0.020	mg/L	16-SEP-10	16-SEP-10	R1469666
Rubidium (Rb)-Total	0.00115		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L931678-1 VL1-F10-WQ1							
Sampled By: CLIENT on 13-SEP-10 @ 10:00							
Matrix: WATER							
Total Metals by ICP-MS							
Selenium (Se)-Total	<0.0010		0.0010	mg/L	16-SEP-10	16-SEP-10	R1469666
Silicon (Si)-Total	2.74		0.050	mg/L	16-SEP-10	17-SEP-10	R1470702
Silver (Ag)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Sodium (Na)-Total	3.68		0.030	mg/L	16-SEP-10	16-SEP-10	R1469666
Strontium (Sr)-Total	0.0479		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Thorium (Th)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Tin (Sn)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Tungsten (W)-Total	<0.0010		0.0010	mg/L	16-SEP-10	16-SEP-10	R1469666
Uranium (U)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Vanadium (V)-Total	<0.00020		0.00020	mg/L	16-SEP-10	17-SEP-10	R1470702
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	16-SEP-10	16-SEP-10	R1469666
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	16-SEP-10	16-SEP-10	R1469666
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-10	16-SEP-10	R1469485
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Arsenic (As)-Dissolved	0.00122		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Barium (Ba)-Dissolved	0.0185		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Boron (B)-Dissolved	0.015		0.010	mg/L	15-SEP-10	16-SEP-10	R1469485
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	15-SEP-10	16-SEP-10	R1469485
Calcium (Ca)-Dissolved	31.4		0.050	mg/L	15-SEP-10	16-SEP-10	R1469485
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Copper (Cu)-Dissolved	0.00023		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	15-SEP-10	16-SEP-10	R1469485
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	15-SEP-10	16-SEP-10	R1469485
Lithium (Li)-Dissolved	0.0036		0.0020	mg/L	15-SEP-10	16-SEP-10	R1469485
Magnesium (Mg)-Dissolved	22.8		0.010	mg/L	15-SEP-10	16-SEP-10	R1469485
Manganese (Mn)-Dissolved	0.00025		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	15-SEP-10	16-SEP-10	R1469485
Potassium (K)-Dissolved	0.973		0.020	mg/L	15-SEP-10	16-SEP-10	R1469485
Rubidium (Rb)-Dissolved	0.00118		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-10	16-SEP-10	R1469485
Silicon (Si)-Dissolved	2.80		0.050	mg/L	15-SEP-10	17-SEP-10	R1470702
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Sodium (Na)-Dissolved	3.78		0.020	mg/L	15-SEP-10	16-SEP-10	R1469485
Strontium (Sr)-Dissolved	0.0442		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-10	16-SEP-10	R1469485
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L931678-1 VL1-F10-WQ1 Sampled By: CLIENT on 13-SEP-10 @ 10:00 Matrix: WATER							
Dissolved Metals by ICP-MS							
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	17-SEP-10	R1470702
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-10	16-SEP-10	R1469485
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	15-SEP-10	16-SEP-10	R1469485
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	3.1		1.0	ug/L	15-SEP-10	21-SEP-10	R1475101
Pheophytin a	<1.0		1.0	ug/L	15-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.6		1.0	ABS Ratio	15-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	172		1.0	mg/L		15-SEP-10	R1467947
Bicarbonate (HCO3)	199		2.0	mg/L		15-SEP-10	R1467947
Carbonate (CO3)	4.85		0.60	mg/L		15-SEP-10	R1467947
Hydroxide (OH)	<0.40		0.40	mg/L		15-SEP-10	R1467947
Conductivity							
Conductivity	322		0.40	umhos/cm		15-SEP-10	R1467947
pH							
pH	8.49		0.10	pH units		15-SEP-10	R1467947
L931678-2 VL1-F10-WQ2 Sampled By: CLIENT on 13-SEP-10 @ 10:00 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Note: Initial pH > Titration endpoint(pH 8.300)							
Ammonia as N	0.491		0.050	mg/L		17-SEP-10	R1471124
Bromide (Br)	<0.10		0.10	mg/L		14-SEP-10	R1468544
BOD Carbonaceous	1.0		1.0	mg/L	15-SEP-10	20-SEP-10	R1471928
Colour, True	11.5		5.0	CU		15-SEP-10	R1467475
Dissolved Organic Carbon	21.5		1.0	mg/L		30-SEP-10	R1484485
Hardness (as CaCO3)	169		0.20	mg/L		17-SEP-10	
Hardness (as CaCO3)	191		0.30	mg/L		18-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473107
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	17-SEP-10	17-SEP-10	R1473006
Nitrate and Nitrite as N	<0.071		0.071	mg/L		20-OCT-10	
Phosphorus, Total	0.0158		0.0020	mg/L		16-SEP-10	R1468384
Silicate (as SiO2)	5.4		1.0	mg/L		21-SEP-10	R1474414
Total Dissolved Solids	212		5.0	mg/L		17-SEP-10	R1470778
Total Inorganic Carbon	36.7		1.0	mg/L		23-SEP-10	R1475140
Total Kjeldahl Nitrogen	2.01		0.20	mg/L	15-SEP-10	17-SEP-10	R1470252
Total Organic Carbon	21.6		1.0	mg/L		01-OCT-10	R1486213
Total Suspended Solids	9.0		5.0	mg/L		17-SEP-10	R1471347
Turbidity	1.43		0.10	NTU		15-SEP-10	R1468012
Anions scan (IC)							
Chloride	4.07		0.50	mg/L		15-SEP-10	R1468544
Fluoride	<0.10		0.10	mg/L		15-SEP-10	R1468544
Nitrite-N	<0.050		0.050	mg/L		15-SEP-10	R1468544
Nitrate-N	<0.050		0.050	mg/L		15-SEP-10	R1468544
Sulfate	<0.50		0.50	mg/L		15-SEP-10	R1468544
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0056		0.0050	mg/L	16-SEP-10	16-SEP-10	R1469666
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666

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ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L931678-2 VL1-F10-WQ2							
Sampled By: CLIENT on 13-SEP-10 @ 10:00							
Matrix: WATER							
Total Metals by ICP-MS							
Arsenic (As)-Total	0.00113		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Barium (Ba)-Total	0.0178		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Boron (B)-Total	0.015		0.010	mg/L	16-SEP-10	16-SEP-10	R1469666
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	16-SEP-10	16-SEP-10	R1469666
Calcium (Ca)-Total	37.1		0.10	mg/L	16-SEP-10	16-SEP-10	R1469666
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	16-SEP-10	16-SEP-10	R1469666
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Copper (Cu)-Total	0.00039		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Iron (Fe)-Total	<0.020		0.020	mg/L	16-SEP-10	16-SEP-10	R1469666
Lead (Pb)-Total	<0.000090		0.000090	mg/L	16-SEP-10	16-SEP-10	R1469666
Lithium (Li)-Total	0.0042		0.0020	mg/L	16-SEP-10	16-SEP-10	R1469666
Magnesium (Mg)-Total	23.9		0.010	mg/L	16-SEP-10	16-SEP-10	R1469666
Manganese (Mn)-Total	0.00766		0.00030	mg/L	16-SEP-10	16-SEP-10	R1469666
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	16-SEP-10	16-SEP-10	R1469666
Phosphorus (P)-Total	<0.20		0.20	mg/L	16-SEP-10	16-SEP-10	R1469666
Potassium (K)-Total	1.10		0.020	mg/L	16-SEP-10	16-SEP-10	R1469666
Rubidium (Rb)-Total	0.00116		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Selenium (Se)-Total	<0.0010		0.0010	mg/L	16-SEP-10	16-SEP-10	R1469666
Silicon (Si)-Total	2.76		0.050	mg/L	16-SEP-10	16-SEP-10	R1469666
Silver (Ag)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Sodium (Na)-Total	3.88		0.030	mg/L	16-SEP-10	16-SEP-10	R1469666
Strontium (Sr)-Total	0.0485		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Thorium (Th)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Tin (Sn)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Titanium (Ti)-Total	0.00028		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Tungsten (W)-Total	<0.0010		0.0010	mg/L	16-SEP-10	16-SEP-10	R1469666
Uranium (U)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Vanadium (V)-Total	<0.00020		0.00020	mg/L	16-SEP-10	17-SEP-10	R1470702
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	16-SEP-10	16-SEP-10	R1469666
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	16-SEP-10	16-SEP-10	R1469666
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-10	16-SEP-10	R1469485
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Arsenic (As)-Dissolved	0.00121		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Barium (Ba)-Dissolved	0.0184		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Boron (B)-Dissolved	0.014		0.010	mg/L	15-SEP-10	16-SEP-10	R1469485
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	15-SEP-10	16-SEP-10	R1469485
Calcium (Ca)-Dissolved	31.2		0.050	mg/L	15-SEP-10	16-SEP-10	R1469485
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Copper (Cu)-Dissolved	0.00027		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Iron (Fe)-Dissolved	0.011		0.010	mg/L	15-SEP-10	16-SEP-10	R1469485

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L931678-2 VL1-F10-WQ2							
Sampled By: CLIENT on 13-SEP-10 @ 10:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	15-SEP-10	16-SEP-10	R1469485
Lithium (Li)-Dissolved	0.0034		0.0020	mg/L	15-SEP-10	16-SEP-10	R1469485
Magnesium (Mg)-Dissolved	22.1		0.010	mg/L	15-SEP-10	16-SEP-10	R1469485
Manganese (Mn)-Dissolved	0.00046		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	15-SEP-10	16-SEP-10	R1469485
Potassium (K)-Dissolved	0.968		0.020	mg/L	15-SEP-10	16-SEP-10	R1469485
Rubidium (Rb)-Dissolved	0.00116		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-10	16-SEP-10	R1469485
Silicon (Si)-Dissolved	3.02		0.050	mg/L	15-SEP-10	16-SEP-10	R1469485
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Sodium (Na)-Dissolved	3.72		0.020	mg/L	15-SEP-10	16-SEP-10	R1469485
Strontium (Sr)-Dissolved	0.0434		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-10	16-SEP-10	R1469485
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	17-SEP-10	R1470702
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-10	16-SEP-10	R1469485
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	15-SEP-10	16-SEP-10	R1469485
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	4.0		1.0	ug/L	15-SEP-10	21-SEP-10	R1475101
Phaeophytin a	<1.0		1.0	ug/L	15-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.6		1.0	ABS Ratio	15-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	172		1.0	mg/L		15-SEP-10	R1467947
Bicarbonate (HCO3)	200		2.0	mg/L		15-SEP-10	R1467947
Carbonate (CO3)	4.78		0.60	mg/L		15-SEP-10	R1467947
Hydroxide (OH)	<0.40		0.40	mg/L		15-SEP-10	R1467947
Conductivity							
Conductivity	322		0.40	umhos/cm		15-SEP-10	R1467947
pH							
pH	8.49		0.10	pH units		15-SEP-10	R1467947
L931678-3 VL2-F10-WQ1							
Sampled By: CLIENT on 13-SEP-10 @ 14:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Note: Initial pH > Titration endpoint(pH 8.300)							
Ammonia as N	<0.050		0.050	mg/L		17-SEP-10	R1471124
Bromide (Br)	<0.10		0.10	mg/L		14-SEP-10	R1468544
BOD Carbonaceous	1.1		1.0	mg/L	15-SEP-10	20-SEP-10	R1471928
Colour, True	46.4		5.0	CU		15-SEP-10	R1467475
Dissolved Organic Carbon	18.2		1.0	mg/L		30-SEP-10	R1484485
Hardness (as CaCO3)	208		0.30	mg/L		18-SEP-10	
Hardness (as CaCO3)	180		0.20	mg/L		17-SEP-10	

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L931678-3 VL2-F10-WQ1							
Sampled By: CLIENT on 13-SEP-10 @ 14:00							
Matrix: WATER							
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473107
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	17-SEP-10	17-SEP-10	R1473006
Nitrate and Nitrite as N	<0.071		0.071	mg/L		20-OCT-10	
Phosphorus, Total	0.0178		0.0020	mg/L		16-SEP-10	R1468384
Silicate (as SiO2)	11.6		1.0	mg/L		21-SEP-10	R1474414
Total Dissolved Solids	212		5.0	mg/L		17-SEP-10	R1470778
Total Inorganic Carbon	39.5		1.0	mg/L		23-SEP-10	R1475140
Total Kjeldahl Nitrogen	0.71		0.20	mg/L	15-SEP-10	17-SEP-10	R1470252
Total Organic Carbon	17.4		1.0	mg/L		01-OCT-10	R1486213
Total Suspended Solids	6.0		5.0	mg/L		17-SEP-10	R1471347
Turbidity	0.73		0.10	NTU		15-SEP-10	R1468012
Anions scan (IC)							
Chloride	4.13		0.50	mg/L		15-SEP-10	R1468544
Fluoride	<0.10		0.10	mg/L		15-SEP-10	R1468544
Nitrite-N	<0.050		0.050	mg/L		15-SEP-10	R1468544
Nitrate-N	<0.050		0.050	mg/L		15-SEP-10	R1468544
Sulfate	<0.50		0.50	mg/L		15-SEP-10	R1468544
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	16-SEP-10	16-SEP-10	R1469666
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Arsenic (As)-Total	0.00057		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Barium (Ba)-Total	0.0137		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Boron (B)-Total	<0.010		0.010	mg/L	16-SEP-10	16-SEP-10	R1469666
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	16-SEP-10	17-SEP-10	R1470702
Calcium (Ca)-Total	44.3		0.10	mg/L	16-SEP-10	16-SEP-10	R1469666
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	16-SEP-10	16-SEP-10	R1469666
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Copper (Cu)-Total	0.00030		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Iron (Fe)-Total	<0.020		0.020	mg/L	16-SEP-10	16-SEP-10	R1469666
Lead (Pb)-Total	<0.000090		0.000090	mg/L	16-SEP-10	16-SEP-10	R1469666
Lithium (Li)-Total	0.0031		0.0020	mg/L	16-SEP-10	16-SEP-10	R1469666
Magnesium (Mg)-Total	23.8		0.010	mg/L	16-SEP-10	16-SEP-10	R1469666
Manganese (Mn)-Total	0.0116		0.00030	mg/L	16-SEP-10	16-SEP-10	R1469666
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	16-SEP-10	16-SEP-10	R1469666
Phosphorus (P)-Total	<0.20		0.20	mg/L	16-SEP-10	16-SEP-10	R1469666
Potassium (K)-Total	0.808		0.020	mg/L	16-SEP-10	16-SEP-10	R1469666
Rubidium (Rb)-Total	0.00070		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Selenium (Se)-Total	<0.0010		0.0010	mg/L	16-SEP-10	16-SEP-10	R1469666
Silicon (Si)-Total	5.28		0.050	mg/L	16-SEP-10	16-SEP-10	R1469666
Silver (Ag)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Sodium (Na)-Total	3.75		0.030	mg/L	16-SEP-10	16-SEP-10	R1469666
Strontium (Sr)-Total	0.0428		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Thorium (Th)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Tin (Sn)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L931678-3 VL2-F10-WQ1							
Sampled By: CLIENT on 13-SEP-10 @ 14:00							
Matrix: WATER							
Total Metals by ICP-MS							
Tungsten (W)-Total	<0.0010		0.0010	mg/L	16-SEP-10	16-SEP-10	R1469666
Uranium (U)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Vanadium (V)-Total	<0.00020		0.00020	mg/L	16-SEP-10	17-SEP-10	R1470702
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	16-SEP-10	16-SEP-10	R1469666
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	16-SEP-10	16-SEP-10	R1469666
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-10	16-SEP-10	R1469485
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Arsenic (As)-Dissolved	0.00068		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Barium (Ba)-Dissolved	0.0142		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Boron (B)-Dissolved	<0.010		0.010	mg/L	15-SEP-10	16-SEP-10	R1469485
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	15-SEP-10	17-SEP-10	R1470702
Calcium (Ca)-Dissolved	36.1		0.050	mg/L	15-SEP-10	16-SEP-10	R1469485
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Copper (Cu)-Dissolved	0.00029		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Iron (Fe)-Dissolved	0.033		0.010	mg/L	15-SEP-10	16-SEP-10	R1469485
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	15-SEP-10	16-SEP-10	R1469485
Lithium (Li)-Dissolved	0.0029		0.0020	mg/L	15-SEP-10	16-SEP-10	R1469485
Magnesium (Mg)-Dissolved	21.7		0.010	mg/L	15-SEP-10	16-SEP-10	R1469485
Manganese (Mn)-Dissolved	0.00058		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Molybdenum (Mo)-Dissolved	0.00012		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	15-SEP-10	16-SEP-10	R1469485
Potassium (K)-Dissolved	0.717		0.020	mg/L	15-SEP-10	16-SEP-10	R1469485
Rubidium (Rb)-Dissolved	0.00072		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-10	16-SEP-10	R1469485
Silicon (Si)-Dissolved	5.80		0.050	mg/L	15-SEP-10	16-SEP-10	R1469485
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Sodium (Na)-Dissolved	3.58		0.020	mg/L	15-SEP-10	16-SEP-10	R1469485
Strontium (Sr)-Dissolved	0.0397		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-10	16-SEP-10	R1469485
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	17-SEP-10	R1470702
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-10	16-SEP-10	R1469485
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	15-SEP-10	16-SEP-10	R1469485
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	2.7		1.0	ug/L	15-SEP-10	21-SEP-10	R1475101
Phaeophytin a	<1.0		1.0	ug/L	15-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.5		1.0	ABS Ratio	15-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	185		1.0	mg/L		15-SEP-10	R1467947
Bicarbonate (HCO3)	218		2.0	mg/L		15-SEP-10	R1467947

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L931678-3 VL2-F10-WQ1 Sampled By: CLIENT on 13-SEP-10 @ 14:00 Matrix: WATER							
Alkalinity							
Carbonate (CO3)	3.73		0.60	mg/L		15-SEP-10	R1467947
Hydroxide (OH)	<0.40		0.40	mg/L		15-SEP-10	R1467947
Conductivity							
Conductivity	343		0.40	umhos/cm		15-SEP-10	R1467947
pH							
pH	8.43		0.10	pH units		15-SEP-10	R1467947
L931678-4 VL2-F10-WQ2 Sampled By: CLIENT on 13-SEP-10 @ 14:00 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Note: Initial pH > Titration endpoint(pH 8.300)							
Ammonia as N	<0.050		0.050	mg/L		17-SEP-10	R1471124
Bromide (Br)	<0.10		0.10	mg/L		14-SEP-10	R1468544
BOD Carbonaceous	1.0		1.0	mg/L	15-SEP-10	20-SEP-10	R1471928
Colour, True	45.0		5.0	CU		15-SEP-10	R1467475
Dissolved Organic Carbon	18.6		1.0	mg/L		30-SEP-10	R1484485
Hardness (as CaCO3)	185		0.20	mg/L		17-SEP-10	
Hardness (as CaCO3)	206		0.30	mg/L		18-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473107
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	17-SEP-10	17-SEP-10	R1473006
Nitrate and Nitrite as N	<0.071		0.071	mg/L		20-OCT-10	
Phosphorus, Total	0.0165		0.0020	mg/L		16-SEP-10	R1468384
Silicate (as SiO2)	11.3		1.0	mg/L		21-SEP-10	R1474414
Total Dissolved Solids	218		5.0	mg/L		17-SEP-10	R1470778
Total Inorganic Carbon	39.4		1.0	mg/L		23-SEP-10	R1475140
Total Kjeldahl Nitrogen	1.07		0.20	mg/L	15-SEP-10	17-SEP-10	R1470252
Total Organic Carbon	17.6		1.0	mg/L		01-OCT-10	R1486213
Total Suspended Solids	7.0		5.0	mg/L		17-SEP-10	R1471347
Turbidity	1.67		0.10	NTU		15-SEP-10	R1468012
Anions scan (IC)							
Chloride	3.95		0.50	mg/L		15-SEP-10	R1468544
Fluoride	<0.10		0.10	mg/L		15-SEP-10	R1468544
Nitrite-N	<0.050		0.050	mg/L		15-SEP-10	R1468544
Nitrate-N	<0.050		0.050	mg/L		15-SEP-10	R1468544
Sulfate	<0.50		0.50	mg/L		15-SEP-10	R1468544
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0155		0.0050	mg/L	16-SEP-10	16-SEP-10	R1469666
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Arsenic (As)-Total	0.00062		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Barium (Ba)-Total	0.0140		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Boron (B)-Total	<0.010		0.010	mg/L	16-SEP-10	16-SEP-10	R1469666
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	16-SEP-10	16-SEP-10	R1469666
Calcium (Ca)-Total	44.3		0.10	mg/L	16-SEP-10	16-SEP-10	R1469666
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	16-SEP-10	16-SEP-10	R1469666
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Copper (Cu)-Total	0.00037		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666

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ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L931678-4 VL2-F10-WQ2							
Sampled By: CLIENT on 13-SEP-10 @ 14:00							
Matrix: WATER							
Total Metals by ICP-MS							
Iron (Fe)-Total	0.097		0.020	mg/L	16-SEP-10	16-SEP-10	R1469666
Lead (Pb)-Total	<0.000090		0.000090	mg/L	16-SEP-10	16-SEP-10	R1469666
Lithium (Li)-Total	0.0032		0.0020	mg/L	16-SEP-10	16-SEP-10	R1469666
Magnesium (Mg)-Total	23.0		0.010	mg/L	16-SEP-10	16-SEP-10	R1469666
Manganese (Mn)-Total	0.0142		0.00030	mg/L	16-SEP-10	16-SEP-10	R1469666
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	16-SEP-10	16-SEP-10	R1469666
Phosphorus (P)-Total	<0.20		0.20	mg/L	16-SEP-10	16-SEP-10	R1469666
Potassium (K)-Total	0.811		0.020	mg/L	16-SEP-10	16-SEP-10	R1469666
Rubidium (Rb)-Total	0.00068		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Selenium (Se)-Total	<0.0010		0.0010	mg/L	16-SEP-10	16-SEP-10	R1469666
Silicon (Si)-Total	5.55		0.050	mg/L	16-SEP-10	16-SEP-10	R1469666
Silver (Ag)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Sodium (Na)-Total	3.62		0.030	mg/L	16-SEP-10	16-SEP-10	R1469666
Strontium (Sr)-Total	0.0428		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Thorium (Th)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Tin (Sn)-Total	<0.00020		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Titanium (Ti)-Total	0.00068		0.00020	mg/L	16-SEP-10	16-SEP-10	R1469666
Tungsten (W)-Total	<0.0010		0.0010	mg/L	16-SEP-10	16-SEP-10	R1469666
Uranium (U)-Total	<0.00010		0.00010	mg/L	16-SEP-10	16-SEP-10	R1469666
Vanadium (V)-Total	<0.00020		0.00020	mg/L	16-SEP-10	17-SEP-10	R1470702
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	16-SEP-10	16-SEP-10	R1469666
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	16-SEP-10	16-SEP-10	R1469666
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-10	16-SEP-10	R1469485
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Arsenic (As)-Dissolved	0.00064		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Barium (Ba)-Dissolved	0.0143		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Boron (B)-Dissolved	<0.010		0.010	mg/L	15-SEP-10	16-SEP-10	R1469485
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	15-SEP-10	16-SEP-10	R1469485
Calcium (Ca)-Dissolved	37.4		0.050	mg/L	15-SEP-10	16-SEP-10	R1469485
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Copper (Cu)-Dissolved	0.00031		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Iron (Fe)-Dissolved	0.027		0.010	mg/L	15-SEP-10	16-SEP-10	R1469485
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	15-SEP-10	16-SEP-10	R1469485
Lithium (Li)-Dissolved	0.0030		0.0020	mg/L	15-SEP-10	16-SEP-10	R1469485
Magnesium (Mg)-Dissolved	22.3		0.010	mg/L	15-SEP-10	16-SEP-10	R1469485
Manganese (Mn)-Dissolved	0.00064		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	15-SEP-10	16-SEP-10	R1469485
Potassium (K)-Dissolved	0.714		0.020	mg/L	15-SEP-10	16-SEP-10	R1469485
Rubidium (Rb)-Dissolved	0.00069		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-10	16-SEP-10	R1469485
Silicon (Si)-Dissolved	5.90		0.050	mg/L	15-SEP-10	16-SEP-10	R1469485

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L931678-4 VL2-F10-WQ2							
Sampled By: CLIENT on 13-SEP-10 @ 14:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Sodium (Na)-Dissolved	3.52		0.020	mg/L	15-SEP-10	16-SEP-10	R1469485
Strontium (Sr)-Dissolved	0.0398		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	16-SEP-10	R1469485
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	15-SEP-10	16-SEP-10	R1469485
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	15-SEP-10	16-SEP-10	R1469485
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	15-SEP-10	17-SEP-10	R1470702
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	15-SEP-10	16-SEP-10	R1469485
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	15-SEP-10	16-SEP-10	R1469485
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	5.3		1.0	ug/L	15-SEP-10	21-SEP-10	R1475101
Phaeophytin a	1.9		1.0	ug/L	15-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.5		1.0	ABS Ratio	15-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	185		1.0	mg/L		15-SEP-10	R1467947
Bicarbonate (HCO3)	218		2.0	mg/L		15-SEP-10	R1467947
Carbonate (CO3)	3.86		0.60	mg/L		15-SEP-10	R1467947
Hydroxide (OH)	<0.40		0.40	mg/L		15-SEP-10	R1467947
Conductivity							
Conductivity	344		0.40	umhos/cm		15-SEP-10	R1467947
pH							
pH	8.44		0.10	pH units		15-SEP-10	R1467947

* 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
<p>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.</p>			
ANIONS5-IC-WP	Water	Anions scan (IC)	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>			
BR-IC-WP	Water	Bromide	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>			
C-DIS-ORG-WP	Water	Dissolved Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
<p>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.</p> <p>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.</p>			
C-TOT-INORG-CL	Water	Total Inorganic Carbon	APHA 5310 C-Instrumental
C-TOT-ORG-CL	Water	Total Organic Carbon	APHA 5310 C-Instrumental
C-TOT-ORG-WP	Water	Total Organic Carbon	APHA 5310 B-INSTRUMENTAL-WP
<p>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.</p> <p>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.</p>			
CHL/A,PHEO/A-ACET-WP	Water	Chlorophyll-a & Pheophytin-a	APHA 10200H, 1998-664/750NM
<p>Chlorophyll-a is filtered from the sample, then extracted with 90% (v/v) acetone. Absorbance is measured spectrophotometrically at 664 nm and 750 nm. The extract is then acidified, converting chlorophyll-a to pheophytin-a. Absorbance is determined again after acidification. The chlorophyll-a concentration is determined from the decrease in absorbance upon acidification. When a detection limit of 0.5 ug/L is required, the volume of sample filtered is doubled to 700mL.</p> <p>Samples with an OD664 before/OD665 after acidification ratio (664b/665a) of 1.70 are considered to contain no pheophytin a and to be in excellent physiological condition. Solutions of pure pheophytin show no reduction in OD665 upon acidification and have a 664b/665a ratio of 1.0 Thus, mixtures of chlorophyll a and pheophytin a have absorption peak ratios ranging between 1.0 and 1.7. These ratios are based on the use of 90% acetone as solvent.</p>			
COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR
<p>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.</p>			
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O2 electrode
<p>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.</p>			
EC-WP	Water	Conductivity	APHA 2510B
<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>			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ETL-HARDNESS-DIS-WP	Water	Hardness Calculated	Calculated
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	Calculated
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 - Colourimetric using Salicylate-nitroprusside and hypochlorite, in an alkaline phosphate buffer.			
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
P-TOTAL-WP	Water	Phosphorus, Total	APHA, 1998 P-T
Samples are digested using a sulphuric acid-persulfate mixture to convert organic phosphorous to orthophosphate. The samples are analyzed by either the Flow Injection Analysis (FIA) or the Segmented Flow Analysis (SFA) method. The absorbance measured by the instrument is proportional to the concentration of orthophosphate in the sample, and is reported as phosphorous.			
PH-WP	Water	pH	APHA 4500H
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.			
SILICATE-COL-VA	Water	Silicate by Colourimetric analysis	APHA 4500-SiO2 D.
This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 D. "Silica". Silicate (molybdate-reactive silica) is determined by the molybdosilicate-heteropoly blue colourimetric method.			
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540
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 2540

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 LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA
CL	ALS LABORATORY GROUP - CALGARY, 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: L931678

Report Date: 21-OCT-10

Page 1 of 27

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	R1476323							
WG1172258-1	CVS							
Acidity (as CaCO3)			106		%		85-115	23-SEP-10
WG1172258-2	DUP	L935000-1						
Acidity (as CaCO3)		2.2	2.1	J	mg/L	0.2	4	23-SEP-10
ALK-TOT-WP								
	Water							
Batch	R1467947							
WG1167314-5	CVS							
Alkalinity, Total (as CaCO3)			101		%		85-115	15-SEP-10
WG1167314-6	CVS							
Alkalinity, Total (as CaCO3)			106		%		85-115	15-SEP-10
WG1167314-10	DUP	L931358-6						
Alkalinity, Total (as CaCO3)		40.0	39.8		mg/L	0.45	20	15-SEP-10
Bicarbonate (HCO3)		48.8	48.6		mg/L	0.45	26	15-SEP-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	15-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	15-SEP-10
WG1167314-11	DUP	L931485-1						
Alkalinity, Total (as CaCO3)		40.0	40.0		mg/L	0.10	20	15-SEP-10
Bicarbonate (HCO3)		48.8	48.8		mg/L	0.10	26	15-SEP-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	15-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	15-SEP-10
WG1167314-12	DUP	L931706-1						
Alkalinity, Total (as CaCO3)		7.7	7.6	J	mg/L	0.0	4	15-SEP-10
Bicarbonate (HCO3)		9.3	9.3	J	mg/L	0.0	8	15-SEP-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	15-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	15-SEP-10
WG1167314-7	DUP	L931358-1						
Alkalinity, Total (as CaCO3)		38.0	38.2		mg/L	0.58	20	15-SEP-10
Bicarbonate (HCO3)		46.3	46.6		mg/L	0.58	26	15-SEP-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	15-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	15-SEP-10
WG1167314-8	DUP	L931358-4						
Alkalinity, Total (as CaCO3)		39.5	39.5		mg/L	0.15	20	15-SEP-10
Bicarbonate (HCO3)		48.2	48.2		mg/L	0.15	26	15-SEP-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	15-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	15-SEP-10
WG1167314-9	DUP	L931358-5						



Quality Control Report

Workorder: L931678

Report Date: 21-OCT-10

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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	R1467947							
WG1167314-9	DUP	L931358-5						
Alkalinity, Total (as CaCO3)		71.8	71.7		mg/L	0.056	20	15-SEP-10
Bicarbonate (HCO3)		87.5	87.5		mg/L	0.056	26	15-SEP-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	15-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	15-SEP-10
ANIONS5-IC-WP								
	Water							
Batch	R1468544							
WG1168102-3	DUP	L927646-11						
Chloride		21.1	21.2		mg/L	0.47	20	15-SEP-10
Fluoride		<0.10	<0.10	RPD-NA	mg/L	N/A	20	15-SEP-10
Nitrite-N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	15-SEP-10
Nitrate-N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	15-SEP-10
Sulfate		4.57	4.58	J	mg/L	0.01	2	15-SEP-10
WG1168102-2	LCS							
Chloride			101		%		85-115	15-SEP-10
Fluoride			102		%		85-115	15-SEP-10
Nitrite-N			99		%		85-115	15-SEP-10
Nitrate-N			98		%		85-115	15-SEP-10
Sulfate			101		%		85-115	15-SEP-10
WG1168102-1	MB							
Chloride			<0.50		mg/L		0.5	15-SEP-10
Fluoride			<0.10		mg/L		0.1	15-SEP-10
Nitrite-N			<0.050		mg/L		0.05	15-SEP-10
Nitrate-N			<0.050		mg/L		0.05	15-SEP-10
Sulfate			<0.50		mg/L		0.5	15-SEP-10
WG1168102-4	MS	L927646-11						
Chloride			99		%		75-125	15-SEP-10
Fluoride			105		%		75-125	15-SEP-10
Nitrite-N			98		%		75-125	15-SEP-10
Nitrate-N			93		%		75-125	15-SEP-10
Sulfate			101		%		75-125	15-SEP-10
BR-IC-WP								
	Water							



Quality Control Report

Workorder: L931678

Report Date: 21-OCT-10

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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	R1468544							
WG1168102-2	LCS							
Bromide (Br)			96		%		85-115	14-SEP-10
WG1168102-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	14-SEP-10
C-DIS-ORG-WP		Water						
Batch	R1484485							
WG1176844-3	CCV							
Dissolved Organic Carbon			102		%		63-138	01-OCT-10
WG1176844-2	CVS							
Dissolved Organic Carbon			100		%		80-120	30-SEP-10
C-TOT-INORG-CL		Water						
Batch	R1475140							
WG1171802-2	LCS							
Total Inorganic Carbon			95		%		80-120	23-SEP-10
WG1171802-1	MB							
Total Inorganic Carbon			<1.0		mg/L		1	23-SEP-10
C-TOT-ORG-WP		Water						
Batch	R1486213							
WG1177906-3	CCV							
Total Organic Carbon			102		%		63-138	02-OCT-10
WG1177906-2	CVS							
Total Organic Carbon			102		%		80-120	01-OCT-10
WG1177906-4	DUP	L934252-1						
Total Organic Carbon		4.6	3.8	J	mg/L	0.8	4	02-OCT-10
WG1177906-1	MB							
Total Organic Carbon			<1.0		mg/L		1	01-OCT-10
CHL/A,PHEO/A-ACET-WP		Water						
Batch	R1475101							
WG1170206-1	CVS							
Chlorophyll a			96		%		65-135	21-SEP-10
WG1170206-2	CVS							
Chlorophyll a			86		%		65-135	21-SEP-10
COLOUR-TRUE-WP		Water						
Batch	R1467475							
WG1167280-3	DUP	L930932-1						
Colour, True		12.3	12.2	J	CU	0.1	20	15-SEP-10
WG1167280-4	DUP	L931372-4						



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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
COLOUR-TRUE-WP								
	Water							
Batch	R1467475							
WG1167280-4	DUP	L931372-4						
Colour, True		361	353		CU	2.2	20	15-SEP-10
WG1167280-2	LCS							
Colour, True			106		%		85-115	15-SEP-10
WG1167280-1	MB							
Colour, True			<5.0		CU		5	15-SEP-10
CONSULT-BOD-CBOD-WP								
	Water							
Batch	R1471928							
WG1166991-3	DUP	L930932-1						
BOD Carbonaceous		1.2	1.3	J	mg/L	0.1	4	20-SEP-10
WG1166991-2	IRM	61-GG						
BOD Carbonaceous			98		%		85-115	20-SEP-10
WG1166991-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	20-SEP-10
EC-WP								
	Water							
Batch	R1467947							
WG1167314-2	CCV							
Conductivity			102		%		95-105	15-SEP-10
WG1167314-1	CVS							
Conductivity			100		%		90-110	15-SEP-10
WG1167314-10	DUP	L931358-6						
Conductivity		836	835		umhos/cm	0.071	10	15-SEP-10
WG1167314-11	DUP	L931485-1						
Conductivity		88.5	88.3		umhos/cm	0.23	10	15-SEP-10
WG1167314-12	DUP	L931706-1						
Conductivity		20.1	20.1		umhos/cm	0.099	10	15-SEP-10
WG1167314-7	DUP	L931358-1						
Conductivity		2200	2200		umhos/cm	0.077	10	15-SEP-10
WG1167314-8	DUP	L931358-4						
Conductivity		807	808		umhos/cm	0.12	10	15-SEP-10
HG-D-CVAF-WP								
	Water							
Batch	R1473107							
WG1170585-3	DUP	L930932-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170585-5	DUP	L932800-5						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10



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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	R1473107							
WG1170585-5 DUP		L932800-5						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170585-7 DUP		L933241-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170585-2 LCS								
Mercury (Hg)-Dissolved			97		%		63-138	20-SEP-10
Mercury (Hg)-Dissolved			97		%		63-138	20-SEP-10
WG1170584-1 MB								
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10
WG1170585-1 MB								
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10
WG1170585-4 MS		L930932-1						
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10
WG1170585-6 MS		L932800-5						
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10
WG1170585-8 MS		L933241-1						
Mercury (Hg)-Dissolved			84		%		70-130	20-SEP-10
Mercury (Hg)-Dissolved			84		%		70-130	20-SEP-10
HG-T-CVAF-WP								
	Water							
Batch	R1473006							
WG1170553-3 DUP		L930527-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
WG1170553-5 DUP		L931485-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
WG1170553-7 DUP		L931706-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
WG1170553-9 DUP		L932322-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10



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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	R1473006							
WG1170553-9	DUP	L932322-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-10
WG1170553-2	LCS							
Mercury (Hg)-Total			107		%		63-138	17-SEP-10
Mercury (Hg)-Total			107		%		63-138	17-SEP-10
WG1170553-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	17-SEP-10
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	17-SEP-10
WG1170553-10	MS	L932322-2						
Mercury (Hg)-Total			103		%		70-130	17-SEP-10
Mercury (Hg)-Total			103		%		70-130	17-SEP-10
WG1170553-4	MS	L930527-1						
Mercury (Hg)-Total			101		%		70-130	17-SEP-10
Mercury (Hg)-Total			101		%		70-130	17-SEP-10
WG1170553-6	MS	L931485-1						
Mercury (Hg)-Total			107		%		70-130	17-SEP-10
Mercury (Hg)-Total			107		%		70-130	17-SEP-10
WG1170553-8	MS	L931706-2						
Mercury (Hg)-Total			101		%		70-130	17-SEP-10
Mercury (Hg)-Total			101		%		70-130	17-SEP-10
MET-D-L-MS-WP								
	Water							
Batch	R1469485							
WG1168532-4	CCV							
Aluminum (Al)-Dissolved			93		%		90-110	16-SEP-10
Antimony (Sb)-Dissolved			99		%		90-110	16-SEP-10
Arsenic (As)-Dissolved			96		%		90-110	16-SEP-10
Barium (Ba)-Dissolved			98		%		90-110	16-SEP-10
Beryllium (Be)-Dissolved			90		%		90-110	16-SEP-10
Bismuth (Bi)-Dissolved			100		%		90-110	16-SEP-10
Boron (B)-Dissolved			94		%		90-110	16-SEP-10
Cadmium (Cd)-Dissolved			98		%		90-110	16-SEP-10
Calcium (Ca)-Dissolved			95		%		90-110	16-SEP-10
Cesium (Cs)-Dissolved			101		%		90-110	16-SEP-10
Chromium (Cr)-Dissolved			97		%		90-110	16-SEP-10
Cobalt (Co)-Dissolved			98		%		90-110	16-SEP-10
Copper (Cu)-Dissolved			98		%		90-110	16-SEP-10



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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	R1469485							
WG1168532-4	CCV							
Iron (Fe)-Dissolved			98		%		90-110	16-SEP-10
Lead (Pb)-Dissolved			101		%		90-110	16-SEP-10
Lithium (Li)-Dissolved			91		%		90-110	16-SEP-10
Magnesium (Mg)-Dissolved			95		%		90-110	16-SEP-10
Manganese (Mn)-Dissolved			98		%		90-110	16-SEP-10
Molybdenum (Mo)-Dissolved			98		%		90-110	16-SEP-10
Nickel (Ni)-Dissolved			99		%		90-110	16-SEP-10
Phosphorus (P)-Dissolved			95		%		90-110	16-SEP-10
Potassium (K)-Dissolved			95		%		90-110	16-SEP-10
Rubidium (Rb)-Dissolved			99		%		90-110	16-SEP-10
Selenium (Se)-Dissolved			95		%		90-110	16-SEP-10
Silicon (Si)-Dissolved			95		%		90-110	16-SEP-10
Silver (Ag)-Dissolved			97		%		90-110	16-SEP-10
Sodium (Na)-Dissolved			95		%		90-110	16-SEP-10
Strontium (Sr)-Dissolved			97		%		90-110	16-SEP-10
Tellurium (Te)-Dissolved			99		%		90-110	16-SEP-10
Thallium (Tl)-Dissolved			102		%		90-110	16-SEP-10
Thorium (Th)-Dissolved			98		%		63-138	16-SEP-10
Tin (Sn)-Dissolved			99		%		90-110	16-SEP-10
Titanium (Ti)-Dissolved			96		%		90-110	16-SEP-10
Tungsten (W)-Dissolved			97		%		90-110	16-SEP-10
Uranium (U)-Dissolved			97		%		90-110	16-SEP-10
Zinc (Zn)-Dissolved			97		%		90-110	16-SEP-10
Zirconium (Zr)-Dissolved			96		%		90-110	16-SEP-10
WG1168532-2	CVS							
Aluminum (Al)-Dissolved			92		%		80-120	16-SEP-10
Antimony (Sb)-Dissolved			100		%		80-120	16-SEP-10
Arsenic (As)-Dissolved			97		%		80-120	16-SEP-10
Barium (Ba)-Dissolved			100		%		80-120	16-SEP-10
Beryllium (Be)-Dissolved			96		%		80-120	16-SEP-10
Bismuth (Bi)-Dissolved			101		%		80-120	16-SEP-10
Boron (B)-Dissolved			96		%		80-120	16-SEP-10
Cadmium (Cd)-Dissolved			98		%		80-120	16-SEP-10
Calcium (Ca)-Dissolved			97		%		80-120	16-SEP-10



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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	R1469485							
WG1168532-2	CVS							
Cesium (Cs)-Dissolved			103		%		80-120	16-SEP-10
Chromium (Cr)-Dissolved			97		%		80-120	16-SEP-10
Cobalt (Co)-Dissolved			99		%		80-120	16-SEP-10
Copper (Cu)-Dissolved			99		%		80-120	16-SEP-10
Iron (Fe)-Dissolved			97		%		80-120	16-SEP-10
Lead (Pb)-Dissolved			103		%		80-120	16-SEP-10
Lithium (Li)-Dissolved			97		%		80-120	16-SEP-10
Magnesium (Mg)-Dissolved			93		%		80-120	16-SEP-10
Manganese (Mn)-Dissolved			99		%		80-120	16-SEP-10
Molybdenum (Mo)-Dissolved			98		%		80-120	16-SEP-10
Nickel (Ni)-Dissolved			99		%		80-120	16-SEP-10
Phosphorus (P)-Dissolved			94		%		80-120	16-SEP-10
Potassium (K)-Dissolved			95		%		80-120	16-SEP-10
Rubidium (Rb)-Dissolved			100		%		80-120	16-SEP-10
Selenium (Se)-Dissolved			99		%		80-120	16-SEP-10
Silicon (Si)-Dissolved			93		%		63-138	16-SEP-10
Silver (Ag)-Dissolved			97		%		63-138	16-SEP-10
Sodium (Na)-Dissolved			91		%		80-120	16-SEP-10
Strontium (Sr)-Dissolved			98		%		80-120	16-SEP-10
Tellurium (Te)-Dissolved			96		%		80-120	16-SEP-10
Thallium (Tl)-Dissolved			102		%		80-120	16-SEP-10
Thorium (Th)-Dissolved			98		%		63-138	16-SEP-10
Tin (Sn)-Dissolved			99		%		80-120	16-SEP-10
Titanium (Ti)-Dissolved			92		%		80-120	16-SEP-10
Tungsten (W)-Dissolved			97		%		80-120	16-SEP-10
Uranium (U)-Dissolved			96		%		80-120	16-SEP-10
Zinc (Zn)-Dissolved			98		%		80-120	16-SEP-10
Zirconium (Zr)-Dissolved			96		%		80-120	16-SEP-10
WG1168532-3	CVS							
Aluminum (Al)-Dissolved			96		%		80-120	16-SEP-10
Antimony (Sb)-Dissolved			95		%		80-120	16-SEP-10
Arsenic (As)-Dissolved			95		%		80-120	16-SEP-10
Barium (Ba)-Dissolved			96		%		80-120	16-SEP-10
Beryllium (Be)-Dissolved			100		%		80-120	16-SEP-10



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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	R1469485							
WG1168532-3	CVS							
Bismuth (Bi)-Dissolved			98		%		80-120	16-SEP-10
Boron (B)-Dissolved			100		%		80-120	16-SEP-10
Cadmium (Cd)-Dissolved			98		%		80-120	16-SEP-10
Calcium (Ca)-Dissolved			97		%		80-120	16-SEP-10
Cesium (Cs)-Dissolved			97		%		80-120	16-SEP-10
Chromium (Cr)-Dissolved			94		%		80-120	16-SEP-10
Cobalt (Co)-Dissolved			92		%		80-120	16-SEP-10
Copper (Cu)-Dissolved			93		%		80-120	16-SEP-10
Iron (Fe)-Dissolved			96		%		80-120	16-SEP-10
Lead (Pb)-Dissolved			97		%		80-120	16-SEP-10
Lithium (Li)-Dissolved			98		%		80-120	16-SEP-10
Magnesium (Mg)-Dissolved			95		%		80-120	16-SEP-10
Manganese (Mn)-Dissolved			98		%		80-120	16-SEP-10
Molybdenum (Mo)-Dissolved			100		%		80-120	16-SEP-10
Nickel (Ni)-Dissolved			94		%		80-120	16-SEP-10
Phosphorus (P)-Dissolved			93		%		80-120	16-SEP-10
Potassium (K)-Dissolved			96		%		80-120	16-SEP-10
Rubidium (Rb)-Dissolved			101		%		80-120	16-SEP-10
Selenium (Se)-Dissolved			97		%		80-120	16-SEP-10
Silicon (Si)-Dissolved			97		%		63-138	16-SEP-10
Silver (Ag)-Dissolved			95		%		63-138	16-SEP-10
Sodium (Na)-Dissolved			96		%		80-120	16-SEP-10
Strontium (Sr)-Dissolved			99		%		80-120	16-SEP-10
Tellurium (Te)-Dissolved			97		%		80-120	16-SEP-10
Thallium (Tl)-Dissolved			96		%		80-120	16-SEP-10
Thorium (Th)-Dissolved			99		%		63-138	16-SEP-10
Tin (Sn)-Dissolved			98		%		80-120	16-SEP-10
Titanium (Ti)-Dissolved			92		%		80-120	16-SEP-10
Tungsten (W)-Dissolved			96		%		80-120	16-SEP-10
Uranium (U)-Dissolved			97		%		80-120	16-SEP-10
Zinc (Zn)-Dissolved			95		%		80-120	16-SEP-10
Zirconium (Zr)-Dissolved			102		%		80-120	16-SEP-10
WG1168523-4	DUP	WG1168523-3						
Aluminum (Al)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	16-SEP-10



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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	R1469485							
WG1168523-4	DUP	WG1168523-3						
Antimony (Sb)-Dissolved		0.00024	0.00022	J	mg/L	0.00002	0.0008	16-SEP-10
Arsenic (As)-Dissolved		0.00099	0.00095	J	mg/L	0.00004	0.0008	16-SEP-10
Barium (Ba)-Dissolved		0.420	0.424		mg/L	0.89	20	16-SEP-10
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Boron (B)-Dissolved		0.016	0.016	J	mg/L	0.000	0.04	16-SEP-10
Cadmium (Cd)-Dissolved		0.000015	0.000016	J	mg/L	0.000001	0.00004	16-SEP-10
Calcium (Ca)-Dissolved		83.3	79.9		mg/L	4.2	20	16-SEP-10
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	16-SEP-10
Chromium (Cr)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Cobalt (Co)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Copper (Cu)-Dissolved		0.00086	0.00089	J	mg/L	0.00003	0.0008	16-SEP-10
Iron (Fe)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	16-SEP-10
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	16-SEP-10
Lithium (Li)-Dissolved		0.0097	0.0095	J	mg/L	0.0002	0.008	16-SEP-10
Magnesium (Mg)-Dissolved		24.4	24.1		mg/L	1.4	20	16-SEP-10
Manganese (Mn)-Dissolved		0.0947	0.0939		mg/L	0.79	20	16-SEP-10
Molybdenum (Mo)-Dissolved		0.00078	0.00079	J	mg/L	0.00001	0.0004	16-SEP-10
Nickel (Ni)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	20	16-SEP-10
Potassium (K)-Dissolved		0.727	0.713		mg/L	1.8	20	16-SEP-10
Rubidium (Rb)-Dissolved		0.00136	0.00134	J	mg/L	0.00003	0.0008	16-SEP-10
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	16-SEP-10
Silicon (Si)-Dissolved		9.91	9.92		mg/L	0.10	20	16-SEP-10
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	16-SEP-10
Sodium (Na)-Dissolved		8.28	8.01		mg/L	3.3	20	16-SEP-10
Strontium (Sr)-Dissolved		0.0862	0.0858		mg/L	0.47	20	16-SEP-10
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	16-SEP-10
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	16-SEP-10
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Titanium (Ti)-Dissolved		0.00040	0.00035	J	mg/L	0.00005	0.0008	16-SEP-10
Tungsten (W)-Dissolved		<0.0010	<0.0010		mg/L			16-SEP-10



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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	R1469485							
WG1168523-4	DUP	WG1168523-3						
Tungsten (W)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	16-SEP-10
Uranium (U)-Dissolved		0.00279	0.00281		mg/L	0.72	20	16-SEP-10
Zinc (Zn)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	16-SEP-10
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	16-SEP-10
WG1168523-2	LCS							
Aluminum (Al)-Dissolved			111		%		80-120	16-SEP-10
Antimony (Sb)-Dissolved			99		%		80-120	16-SEP-10
Arsenic (As)-Dissolved			102		%		80-120	16-SEP-10
Barium (Ba)-Dissolved			109		%		80-120	16-SEP-10
Beryllium (Be)-Dissolved			109		%		80-120	16-SEP-10
Bismuth (Bi)-Dissolved			99		%		80-120	16-SEP-10
Boron (B)-Dissolved			108		%		80-120	16-SEP-10
Cadmium (Cd)-Dissolved			105		%		80-120	16-SEP-10
Calcium (Ca)-Dissolved			105		%		80-120	16-SEP-10
Cesium (Cs)-Dissolved			112		%		80-120	16-SEP-10
Chromium (Cr)-Dissolved			105		%		80-120	16-SEP-10
Cobalt (Co)-Dissolved			109		%		80-120	16-SEP-10
Copper (Cu)-Dissolved			103		%		80-120	16-SEP-10
Iron (Fe)-Dissolved			112		%		80-120	16-SEP-10
Lead (Pb)-Dissolved			100		%		80-120	16-SEP-10
Lithium (Li)-Dissolved			111		%		80-120	16-SEP-10
Magnesium (Mg)-Dissolved			111		%		80-120	16-SEP-10
Manganese (Mn)-Dissolved			106		%		80-120	16-SEP-10
Molybdenum (Mo)-Dissolved			109		%		80-120	16-SEP-10
Nickel (Ni)-Dissolved			103		%		80-120	16-SEP-10
Phosphorus (P)-Dissolved			110		%		80-120	16-SEP-10
Potassium (K)-Dissolved			104		%		80-120	16-SEP-10
Rubidium (Rb)-Dissolved			113		%		80-120	16-SEP-10
Selenium (Se)-Dissolved			102		%		80-120	16-SEP-10
Silicon (Si)-Dissolved			110		%		80-120	16-SEP-10
Silver (Ag)-Dissolved			106		%		80-120	16-SEP-10
Sodium (Na)-Dissolved			114		%		80-120	16-SEP-10
Strontium (Sr)-Dissolved			105		%		80-120	16-SEP-10
Tellurium (Te)-Dissolved			106				80-120	16-SEP-10



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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	R1469485							
WG1168523-2	LCS							
Tellurium (Te)-Dissolved			106		%		80-120	16-SEP-10
Thallium (Tl)-Dissolved			100		%		80-120	16-SEP-10
Thorium (Th)-Dissolved			102		%		80-120	16-SEP-10
Tin (Sn)-Dissolved			103		%		80-120	16-SEP-10
Titanium (Ti)-Dissolved			107		%		80-120	16-SEP-10
Tungsten (W)-Dissolved			105		%		80-120	16-SEP-10
Uranium (U)-Dissolved			110		%		80-120	16-SEP-10
Zinc (Zn)-Dissolved			104		%		80-120	16-SEP-10
Zirconium (Zr)-Dissolved			108		%		80-120	16-SEP-10
WG1168523-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.002	16-SEP-10
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.0002	16-SEP-10
Arsenic (As)-Dissolved			<0.00020		mg/L		0.0002	16-SEP-10
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0002	16-SEP-10
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	16-SEP-10
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0002	16-SEP-10
Boron (B)-Dissolved			<0.010		mg/L		0.01	16-SEP-10
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	16-SEP-10
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	16-SEP-10
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0001	16-SEP-10
Chromium (Cr)-Dissolved			<0.00020		mg/L		0.0002	16-SEP-10
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0002	16-SEP-10
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	16-SEP-10
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	16-SEP-10
Lead (Pb)-Dissolved			<0.000090		mg/L		0.00009	16-SEP-10
Lithium (Li)-Dissolved			<0.0020		mg/L		0.002	16-SEP-10
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.01	16-SEP-10
Manganese (Mn)-Dissolved			<0.00020		mg/L		0.0002	16-SEP-10
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0001	16-SEP-10
Nickel (Ni)-Dissolved			<0.00020		mg/L		0.0002	16-SEP-10
Phosphorus (P)-Dissolved			<0.10		mg/L		0.1	16-SEP-10
Potassium (K)-Dissolved			<0.020		mg/L		0.02	16-SEP-10
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	16-SEP-10
Selenium (Se)-Dissolved			<0.0010		mg/L		0.001	16-SEP-10



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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 R1469485								
WG1168523-1 MB								
	Silicon (Si)-Dissolved		<0.050		mg/L		0.05	16-SEP-10
	Silver (Ag)-Dissolved		<0.00010		mg/L		0.0001	16-SEP-10
	Sodium (Na)-Dissolved		<0.020		mg/L		0.02	16-SEP-10
	Strontium (Sr)-Dissolved		<0.00010		mg/L		0.0001	16-SEP-10
	Tellurium (Te)-Dissolved		<0.00020		mg/L		0.0002	16-SEP-10
	Thallium (Tl)-Dissolved		<0.00010		mg/L		0.0001	16-SEP-10
	Thorium (Th)-Dissolved		<0.00010		mg/L		0.0001	16-SEP-10
	Tin (Sn)-Dissolved		<0.00020		mg/L		0.0002	16-SEP-10
	Titanium (Ti)-Dissolved		<0.00020		mg/L		0.0002	16-SEP-10
	Tungsten (W)-Dissolved		<0.0010		mg/L		0.001	16-SEP-10
	Uranium (U)-Dissolved		<0.00010		mg/L		0.0001	16-SEP-10
	Zinc (Zn)-Dissolved		<0.0020		mg/L		0.002	16-SEP-10
	Zirconium (Zr)-Dissolved		<0.00040		mg/L		0.0004	16-SEP-10
Batch R1470702								
WG1169252-3 CCV								
	Cadmium (Cd)-Dissolved		100		%		90-110	17-SEP-10
	Silicon (Si)-Dissolved		100		%		90-110	17-SEP-10
	Vanadium (V)-Dissolved		100		%		90-110	17-SEP-10
WG1169252-1 CVS								
	Cadmium (Cd)-Dissolved		102		%		80-120	17-SEP-10
	Silicon (Si)-Dissolved		97		%		63-138	17-SEP-10
	Vanadium (V)-Dissolved		98		%		80-120	17-SEP-10
WG1169252-2 CVS								
	Cadmium (Cd)-Dissolved		106		%		80-120	17-SEP-10
	Silicon (Si)-Dissolved		104		%		63-138	17-SEP-10
	Vanadium (V)-Dissolved		104		%		80-120	17-SEP-10
MET-T-L-MS-WP		Water						
Batch R1469666								
WG1168527-3 CCV								
	Aluminum (Al)-Total		92		%		90-110	16-SEP-10
	Antimony (Sb)-Total		97		%		90-110	16-SEP-10
	Arsenic (As)-Total		98		%		90-110	16-SEP-10
	Barium (Ba)-Total		98		%		90-110	16-SEP-10
	Beryllium (Be)-Total		101		%		90-110	16-SEP-10



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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	R1469666							
WG1168527-3	CCV							
Bismuth (Bi)-Total			98		%		90-110	16-SEP-10
Boron (B)-Total			104		%		90-110	16-SEP-10
Cadmium (Cd)-Total			98		%		90-110	16-SEP-10
Calcium (Ca)-Total			99		%		90-110	16-SEP-10
Cesium (Cs)-Total			95		%		90-110	16-SEP-10
Chromium (Cr)-Total			97		%		90-110	16-SEP-10
Cobalt (Co)-Total			96		%		90-110	16-SEP-10
Copper (Cu)-Total			98		%		90-110	16-SEP-10
Iron (Fe)-Total			96		%		90-110	16-SEP-10
Lead (Pb)-Total			96		%		90-110	16-SEP-10
Lithium (Li)-Total			100		%		90-110	16-SEP-10
Magnesium (Mg)-Total			99		%		90-110	16-SEP-10
Manganese (Mn)-Total			97		%		90-110	16-SEP-10
Molybdenum (Mo)-Total			99		%		90-110	16-SEP-10
Nickel (Ni)-Total			100		%		90-110	16-SEP-10
Phosphorus (P)-Total			101		%		90-110	16-SEP-10
Potassium (K)-Total			99		%		90-110	16-SEP-10
Rubidium (Rb)-Total			94		%		90-110	16-SEP-10
Selenium (Se)-Total			99		%		90-110	16-SEP-10
Silicon (Si)-Total			95		%		90-110	16-SEP-10
Silver (Ag)-Total			99		%		90-110	16-SEP-10
Sodium (Na)-Total			99		%		90-110	16-SEP-10
Strontium (Sr)-Total			100		%		90-110	16-SEP-10
Tellurium (Te)-Total			100		%		90-110	16-SEP-10
Thallium (Tl)-Total			94		%		90-110	16-SEP-10
Thorium (Th)-Total			97		%		63-138	16-SEP-10
Tin (Sn)-Total			98		%		90-110	16-SEP-10
Titanium (Ti)-Total			100		%		90-110	16-SEP-10
Tungsten (W)-Total			95		%		90-110	16-SEP-10
Uranium (U)-Total			91		%		90-110	16-SEP-10
Zinc (Zn)-Total			98		%		90-110	16-SEP-10
Zirconium (Zr)-Total			96		%		90-110	16-SEP-10
WG1168527-1	CVS							
Aluminum (Al)-Total			96		%		63-138	16-SEP-10



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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	R1469666							
WG1168527-1	CVS							
Antimony (Sb)-Total			99		%		63-138	16-SEP-10
Arsenic (As)-Total			100		%		63-138	16-SEP-10
Barium (Ba)-Total			98		%		63-138	16-SEP-10
Beryllium (Be)-Total			103		%		63-138	16-SEP-10
Bismuth (Bi)-Total			98		%		63-138	16-SEP-10
Boron (B)-Total			99		%		63-138	16-SEP-10
Cadmium (Cd)-Total			99		%		63-138	16-SEP-10
Calcium (Ca)-Total			100		%		63-138	16-SEP-10
Cesium (Cs)-Total			96		%		63-138	16-SEP-10
Chromium (Cr)-Total			99		%		63-138	16-SEP-10
Cobalt (Co)-Total			96		%		63-138	16-SEP-10
Copper (Cu)-Total			100		%		63-138	16-SEP-10
Iron (Fe)-Total			96		%		63-138	16-SEP-10
Lead (Pb)-Total			99		%		63-138	16-SEP-10
Lithium (Li)-Total			98		%		63-138	16-SEP-10
Magnesium (Mg)-Total			100		%		63-138	16-SEP-10
Manganese (Mn)-Total			98		%		63-138	16-SEP-10
Molybdenum (Mo)-Total			100		%		63-138	16-SEP-10
Nickel (Ni)-Total			101		%		63-138	16-SEP-10
Phosphorus (P)-Total			99		%		63-138	16-SEP-10
Potassium (K)-Total			98		%		63-138	16-SEP-10
Rubidium (Rb)-Total			97		%		63-138	16-SEP-10
Selenium (Se)-Total			100		%		63-138	16-SEP-10
Silicon (Si)-Total			97		%		63-138	16-SEP-10
Silver (Ag)-Total			99		%		63-138	16-SEP-10
Sodium (Na)-Total			101		%		63-138	16-SEP-10
Strontium (Sr)-Total			98		%		63-138	16-SEP-10
Tellurium (Te)-Total			100		%		63-138	16-SEP-10
Thallium (Tl)-Total			98		%		63-138	16-SEP-10
Thorium (Th)-Total			102		%		63-138	16-SEP-10
Tin (Sn)-Total			98		%		63-138	16-SEP-10
Titanium (Ti)-Total			96		%		63-138	16-SEP-10
Tungsten (W)-Total			98		%		63-138	16-SEP-10



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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	R1469666							
WG1168527-1	CVS							
Uranium (U)-Total			95		%		63-138	16-SEP-10
Zinc (Zn)-Total			100		%		63-138	16-SEP-10
Zirconium (Zr)-Total			95		%		63-138	16-SEP-10
WG1168527-2	CVS							
Aluminum (Al)-Total			100		%		63-138	16-SEP-10
Antimony (Sb)-Total			100		%		63-138	16-SEP-10
Arsenic (As)-Total			100		%		63-138	16-SEP-10
Barium (Ba)-Total			100		%		63-138	16-SEP-10
Beryllium (Be)-Total			102		%		63-138	16-SEP-10
Bismuth (Bi)-Total			102		%		63-138	16-SEP-10
Boron (B)-Total			106		%		63-138	16-SEP-10
Cadmium (Cd)-Total			103		%		63-138	16-SEP-10
Calcium (Ca)-Total			102		%		63-138	16-SEP-10
Cesium (Cs)-Total			100		%		63-138	16-SEP-10
Chromium (Cr)-Total			100		%		63-138	16-SEP-10
Cobalt (Co)-Total			102		%		63-138	16-SEP-10
Copper (Cu)-Total			98		%		63-138	16-SEP-10
Iron (Fe)-Total			100		%		63-138	16-SEP-10
Lead (Pb)-Total			100		%		63-138	16-SEP-10
Lithium (Li)-Total			103		%		63-138	16-SEP-10
Magnesium (Mg)-Total			99		%		63-138	16-SEP-10
Manganese (Mn)-Total			101		%		63-138	16-SEP-10
Molybdenum (Mo)-Total			105		%		63-138	16-SEP-10
Nickel (Ni)-Total			99		%		63-138	16-SEP-10
Phosphorus (P)-Total			99		%		63-138	16-SEP-10
Potassium (K)-Total			100		%		63-138	16-SEP-10
Rubidium (Rb)-Total			102		%		63-138	16-SEP-10
Selenium (Se)-Total			99		%		63-138	16-SEP-10
Silicon (Si)-Total			100		%		63-138	16-SEP-10
Silver (Ag)-Total			102		%		63-138	16-SEP-10
Sodium (Na)-Total			100		%		63-138	16-SEP-10
Strontium (Sr)-Total			106		%		63-138	16-SEP-10
Tellurium (Te)-Total			99		%		63-138	16-SEP-10
Thallium (Tl)-Total			101		%		63-138	16-SEP-10



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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	R1469666							
WG1168527-2	CVS							
Thorium (Th)-Total			100		%		63-138	16-SEP-10
Tin (Sn)-Total			104		%		63-138	16-SEP-10
Titanium (Ti)-Total			96		%		63-138	16-SEP-10
Tungsten (W)-Total			100		%		63-138	16-SEP-10
Uranium (U)-Total			97		%		63-138	16-SEP-10
Zinc (Zn)-Total			99		%		63-138	16-SEP-10
Zirconium (Zr)-Total			104		%		63-138	16-SEP-10
WG1167850-4	DUP		WG1167850-3					
Aluminum (Al)-Total		0.0470	0.0497	J	mg/L	0.0027	0.02	16-SEP-10
Antimony (Sb)-Total		0.0113	0.0111		mg/L	1.7	20	16-SEP-10
Arsenic (As)-Total		0.991	1.01		mg/L	1.6	20	16-SEP-10
Barium (Ba)-Total		0.0325	0.0324		mg/L	0.29	20	16-SEP-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Boron (B)-Total		0.051	0.049	J	mg/L	0.002	0.04	16-SEP-10
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	16-SEP-10
Calcium (Ca)-Total		63.9	63.9		mg/L	0.0	20	16-SEP-10
Cesium (Cs)-Total		0.00026	0.00025	J	mg/L	0.00001	0.0004	16-SEP-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	16-SEP-10
Cobalt (Co)-Total		0.00060	0.00059	J	mg/L	0.00001	0.0008	16-SEP-10
Copper (Cu)-Total		0.00248	0.00262		mg/L	5.7	20	16-SEP-10
Iron (Fe)-Total		0.193	0.183	J	mg/L	0.010	0.08	16-SEP-10
Lead (Pb)-Total		0.000135	0.000135	J	mg/L	0.000000	0.00036	16-SEP-10
Lithium (Li)-Total		0.0275	0.0287		mg/L	4.4	20	16-SEP-10
Magnesium (Mg)-Total		30.3	31.1		mg/L	2.4	20	16-SEP-10
Manganese (Mn)-Total		0.0450	0.0453		mg/L	0.59	20	16-SEP-10
Molybdenum (Mo)-Total		0.00092	0.00096	J	mg/L	0.00004	0.0008	16-SEP-10
Nickel (Ni)-Total		0.0156	0.0161	J	mg/L	0.0005	0.008	16-SEP-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	16-SEP-10
Potassium (K)-Total		6.06	6.25		mg/L	3.2	20	16-SEP-10
Rubidium (Rb)-Total		0.00703	0.00713		mg/L	1.3	20	16-SEP-10
Selenium (Se)-Total		0.0014	0.0014	J	mg/L	0.0000	0.004	16-SEP-10
Silicon (Si)-Total		3.89	4.06		mg/L	4.3	20	16-SEP-10



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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	R1469666							
WG1167850-4 DUP		WG1167850-3						
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	16-SEP-10
Sodium (Na)-Total		47.1	48.1		mg/L	2.0	20	16-SEP-10
Strontium (Sr)-Total		0.758	0.777		mg/L	2.5	20	16-SEP-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	16-SEP-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	16-SEP-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Tungsten (W)-Total		0.0023	0.0023	J	mg/L	0.0000	0.004	16-SEP-10
Uranium (U)-Total		0.00023	0.00022	J	mg/L	0.00001	0.0004	16-SEP-10
Zinc (Zn)-Total		0.0065	0.0068	J	mg/L	0.0003	0.02	16-SEP-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	16-SEP-10
WG1167850-6 DUP		WG1167850-5						
Aluminum (Al)-Total		0.279	0.290		mg/L	3.8	20	16-SEP-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Arsenic (As)-Total		0.00037	0.00037	J	mg/L	0.00000	0.0008	16-SEP-10
Barium (Ba)-Total		0.0135	0.0133		mg/L	1.2	20	16-SEP-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	16-SEP-10
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	16-SEP-10
Calcium (Ca)-Total		10.2	10.4		mg/L	1.9	20	16-SEP-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	16-SEP-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	16-SEP-10
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Copper (Cu)-Total		0.00101	0.00098	J	mg/L	0.00002	0.0008	16-SEP-10
Iron (Fe)-Total		0.226	0.229		mg/L	1.2	20	16-SEP-10
Lead (Pb)-Total		0.000214	0.000193	J	mg/L	0.000021	0.00036	16-SEP-10
Lithium (Li)-Total		0.0040	0.0042	J	mg/L	0.0003	0.008	16-SEP-10
Magnesium (Mg)-Total		3.96	3.79		mg/L	4.3	20	16-SEP-10
Manganese (Mn)-Total		0.0190	0.0191		mg/L	0.38	20	16-SEP-10
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	16-SEP-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	16-SEP-10



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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	R1469666							
WG1167850-6	DUP	WG1167850-5						
Potassium (K)-Total		1.34	1.35		mg/L	0.82	20	16-SEP-10
Rubidium (Rb)-Total		0.00205	0.00209		mg/L	1.9	20	16-SEP-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	16-SEP-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	16-SEP-10
Sodium (Na)-Total		3.38	3.27		mg/L	3.4	20	16-SEP-10
Strontium (Sr)-Total		0.0363	0.0350		mg/L	3.8	20	16-SEP-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	16-SEP-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	16-SEP-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	16-SEP-10
Titanium (Ti)-Total		0.0127	0.0123		mg/L	2.8	20	16-SEP-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	16-SEP-10
Uranium (U)-Total		0.00012	0.00012	J	mg/L	0.00000	0.0004	16-SEP-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	16-SEP-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	16-SEP-10
WG1167850-2	LCS							
Aluminum (Al)-Total			102		%		80-120	16-SEP-10
Antimony (Sb)-Total			105		%		80-120	16-SEP-10
Arsenic (As)-Total			103		%		80-120	16-SEP-10
Barium (Ba)-Total			102		%		80-120	16-SEP-10
Beryllium (Be)-Total			105		%		80-120	16-SEP-10
Bismuth (Bi)-Total			101		%		80-120	16-SEP-10
Boron (B)-Total			109		%		80-120	16-SEP-10
Cadmium (Cd)-Total			98		%		80-120	16-SEP-10
Calcium (Ca)-Total			99		%		80-120	16-SEP-10
Cesium (Cs)-Total			98		%		80-120	16-SEP-10
Chromium (Cr)-Total			102		%		80-120	16-SEP-10
Cobalt (Co)-Total			98		%		80-120	16-SEP-10
Copper (Cu)-Total			99		%		80-120	16-SEP-10
Iron (Fe)-Total			96		%		80-120	16-SEP-10
Lead (Pb)-Total			98		%		80-120	16-SEP-10
Lithium (Li)-Total			94		%		80-120	16-SEP-10
Magnesium (Mg)-Total			100		%		80-120	16-SEP-10



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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	R1469666							
WG1167850-2	LCS							
Manganese (Mn)-Total			96		%		80-120	16-SEP-10
Molybdenum (Mo)-Total			101		%		80-120	16-SEP-10
Nickel (Ni)-Total			99		%		80-120	16-SEP-10
Phosphorus (P)-Total			99		%		80-120	16-SEP-10
Potassium (K)-Total			98		%		80-120	16-SEP-10
Rubidium (Rb)-Total			96		%		80-120	16-SEP-10
Selenium (Se)-Total			99		%		80-120	16-SEP-10
Silicon (Si)-Total			104		%		80-120	16-SEP-10
Silver (Ag)-Total			100		%		80-120	16-SEP-10
Sodium (Na)-Total			100		%		80-120	16-SEP-10
Strontium (Sr)-Total			93		%		80-120	16-SEP-10
Tellurium (Te)-Total			109		%		80-120	16-SEP-10
Thallium (Tl)-Total			100		%		80-120	16-SEP-10
Thorium (Th)-Total			96		%		63-138	16-SEP-10
Tin (Sn)-Total			101		%		80-120	16-SEP-10
Titanium (Ti)-Total			100		%		80-120	16-SEP-10
Tungsten (W)-Total			100		%		80-120	16-SEP-10
Uranium (U)-Total			92		%		80-120	16-SEP-10
Zinc (Zn)-Total			99		%		80-120	16-SEP-10
Zirconium (Zr)-Total			98		%		80-120	16-SEP-10
WG1167850-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.005	16-SEP-10
Antimony (Sb)-Total			<0.00020		mg/L		0.0002	16-SEP-10
Arsenic (As)-Total			<0.00020		mg/L		0.0002	16-SEP-10
Barium (Ba)-Total			<0.00020		mg/L		0.0002	16-SEP-10
Beryllium (Be)-Total			<0.00020		mg/L		0.0002	16-SEP-10
Bismuth (Bi)-Total			<0.00020		mg/L		0.0002	16-SEP-10
Boron (B)-Total			<0.010		mg/L		0.01	16-SEP-10
Cadmium (Cd)-Total			<0.000010		mg/L		0.00001	16-SEP-10
Calcium (Ca)-Total			<0.10		mg/L		0.1	16-SEP-10
Cesium (Cs)-Total			<0.00010		mg/L		0.0001	16-SEP-10
Chromium (Cr)-Total			<0.0010		mg/L		0.001	16-SEP-10
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	16-SEP-10
Copper (Cu)-Total			<0.00020		mg/L		0.0002	16-SEP-10



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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 R1469666								
WG1167850-1 MB								
Iron (Fe)-Total			<0.020		mg/L		0.02	16-SEP-10
Lead (Pb)-Total			<0.000090		mg/L		0.00009	16-SEP-10
Lithium (Li)-Total			<0.0020		mg/L		0.002	16-SEP-10
Magnesium (Mg)-Total			<0.010		mg/L		0.01	16-SEP-10
Manganese (Mn)-Total			<0.00030		mg/L		0.0003	16-SEP-10
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0002	16-SEP-10
Nickel (Ni)-Total			<0.0020		mg/L		0.002	16-SEP-10
Phosphorus (P)-Total			<0.20		mg/L		0.2	16-SEP-10
Potassium (K)-Total			<0.020		mg/L		0.02	16-SEP-10
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	16-SEP-10
Selenium (Se)-Total			<0.0010		mg/L		0.001	16-SEP-10
Silicon (Si)-Total			<0.050		mg/L		0.05	16-SEP-10
Silver (Ag)-Total			<0.00010		mg/L		0.0001	16-SEP-10
Sodium (Na)-Total			<0.030		mg/L		0.03	16-SEP-10
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	16-SEP-10
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	16-SEP-10
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	16-SEP-10
Thorium (Th)-Total			<0.00010		mg/L		0.0001	16-SEP-10
Tin (Sn)-Total			<0.00020		mg/L		0.0002	16-SEP-10
Titanium (Ti)-Total			<0.00020		mg/L		0.0002	16-SEP-10
Tungsten (W)-Total			<0.0010		mg/L		0.001	16-SEP-10
Uranium (U)-Total			<0.00010		mg/L		0.0001	16-SEP-10
Zinc (Zn)-Total			<0.0050		mg/L		0.005	16-SEP-10
Zirconium (Zr)-Total			<0.00040		mg/L		0.0004	16-SEP-10
Batch R1470702								
WG1169252-3 CCV								
Cadmium (Cd)-Total			100		%		90-110	17-SEP-10
Silicon (Si)-Total			100		%		90-110	17-SEP-10
Vanadium (V)-Total			100		%		90-110	17-SEP-10
WG1169252-1 CVS								
Cadmium (Cd)-Total			102		%		63-138	17-SEP-10
Silicon (Si)-Total			97		%		63-138	17-SEP-10
Vanadium (V)-Total			98		%		63-138	17-SEP-10
WG1169252-2 CVS								



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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	R1470702							
WG1169252-2	CVS							
Cadmium (Cd)-Total			106		%		63-138	17-SEP-10
Silicon (Si)-Total			104		%		63-138	17-SEP-10
Vanadium (V)-Total			104		%		63-138	17-SEP-10
N-TOTKJ-WP		Water						
Batch	R1470252							
WG1168946-2	CCV							
Total Kjeldahl Nitrogen			104		%		90-110	17-SEP-10
WG1168946-1	CVS							
Total Kjeldahl Nitrogen			102		%		90-110	17-SEP-10
WG1168157-4	DUP	L931600-2						
Total Kjeldahl Nitrogen		0.57	0.54	J	mg/L	0.03	0.8	17-SEP-10
WG1168157-7	DUP	L931622-1						
Total Kjeldahl Nitrogen		0.48	0.53	J	mg/L	0.05	0.8	17-SEP-10
WG1168157-2	LCS							
Total Kjeldahl Nitrogen			111		%		75-125	17-SEP-10
WG1168157-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	17-SEP-10
WG1168157-5	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	17-SEP-10
WG1168157-3	MS	L931600-2						
Total Kjeldahl Nitrogen			114		%		70-130	17-SEP-10
NH3-COL-WP		Water						
Batch	R1471124							
WG1169576-3	CCV							
Ammonia as N			101		%		63-138	17-SEP-10
WG1169576-5	DUP	L931358-4						
Ammonia as N		0.128	0.133	J	mg/L	0.004	0.2	17-SEP-10
WG1169576-2	LCS							
Ammonia as N			103		%		85-115	17-SEP-10
WG1169576-1	MB							
Ammonia as N			<0.050		mg/L		0.05	17-SEP-10
P-TOTAL-WP		Water						
Batch	R1468384							
WG1167735-1	CCV							
Phosphorus, Total			102		%		90-110	16-SEP-10
WG1167735-2	CCV							



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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-TOTAL-WP		Water						
Batch	R1468384							
WG1167735-2	CCV							
Phosphorus, Total			92		%		90-110	16-SEP-10
WG1167625-2	CVS							
Phosphorus, Total			96		%		80-120	16-SEP-10
WG1167625-3	CVS							
Phosphorus, Total			100		%		80-120	16-SEP-10
WG1167625-4	DUP	L931368-1						
Phosphorus, Total		2.38	2.25		mg/L	5.6	20	16-SEP-10
WG1167625-6	DUP	L931372-4						
Phosphorus, Total		0.0525	0.0505		mg/L	3.9	20	16-SEP-10
WG1167625-1	MB							
Phosphorus, Total			<0.010		mg/L		0.01	16-SEP-10
WG1167625-5	MS	L931358-10						
Phosphorus, Total			100		%		70-130	16-SEP-10
WG1167625-7	MS	L931389-1						
Phosphorus, Total			100		%		70-130	16-SEP-10
PH-WP		Water						
Batch	R1467947							
WG1167314-4	CCV							
pH			97		%		90-110	15-SEP-10
WG1167314-3	CVS							
pH			100		%		99-101	15-SEP-10
WG1167314-10	DUP	L931358-6						
pH		7.65	7.64		pH units	0.078	5	15-SEP-10
WG1167314-11	DUP	L931485-1						
pH		7.92	7.92		pH units	0.076	5	15-SEP-10
WG1167314-12	DUP	L931706-1						
pH		7.22	7.20		pH units	0.18	5	15-SEP-10
SILICATE-COL-VA		Water						
Batch	R1474414							
WG1170781-3	CRM	VA-SIO2-CSPK1						
Silicate (as SIO2)			105		%		85-115	21-SEP-10
WG1170781-6	CRM	VA-SIO2-CSPK10						
Silicate (as SIO2)			102		%		85-115	21-SEP-10
WG1170781-1	DUP	L932029-1						
Silicate (as SIO2)		12.5	12.5		mg/L	0.26	20	21-SEP-10
WG1170781-4	DUP	L933938-4						
Silicate (as SIO2)		<1.0	<1.0	RPD-NA	mg/L	N/A	20	21-SEP-10



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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	R1468012							
WG1167845-3	CVS							
Turbidity			101		%		63-138	15-SEP-10
WG1167845-7	DUP	L931340-1						
Turbidity		0.34	0.34	J	NTU	0.00	0.4	15-SEP-10
WG1167845-8	DUP	L931485-2						
Turbidity		10.5	10.6		NTU	0.95	15	15-SEP-10
WG1167845-6	LCS							
Turbidity			96		%		85-115	15-SEP-10
WG1167845-1	MB							
Turbidity			<0.10		NTU		0.1	15-SEP-10

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Legend:

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

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
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							
pH							
	1	13-SEP-10 10:00	15-SEP-10 11:30	0.25	49	hours	EHTR-FM
	2	13-SEP-10 10:00	15-SEP-10 11:30	0.25	49	hours	EHTR-FM
	3	13-SEP-10 14:00	15-SEP-10 11:30	0.25	46	hours	EHTR-FM
	4	13-SEP-10 14:00	15-SEP-10 11:30	0.25	46	hours	EHTR-FM
Anions and Nutrients							
Anions scan (IC)							
	1	13-SEP-10 10:00	15-SEP-10 14:35	48	53	hours	EHTL
	2	13-SEP-10 10:00	15-SEP-10 14:35	48	53	hours	EHTL
Organic / Inorganic Carbon							
Total Inorganic Carbon							
	1	13-SEP-10 10:00	23-SEP-10 00:00	24	230	hours	EHTR
	2	13-SEP-10 10:00	23-SEP-10 00:00	24	230	hours	EHTR
	3	13-SEP-10 14:00	23-SEP-10 00:00	24	226	hours	EHTR
	4	13-SEP-10 14:00	23-SEP-10 00:00	24	226	hours	EHTR
Aggregate Organics							
Carbonaceous BOD							
	1	13-SEP-10 10:00	15-SEP-10 12:18	48	50	hours	EHTL
	2	13-SEP-10 10:00	15-SEP-10 12:18	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 L931678 were received on 15-SEP-10 09:30.

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		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other		<input checked="" type="radio"/> Regular (Default)									
Contact: Cliff Samoloff		<input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Digital <input type="checkbox"/> Fax		<input type="radio"/> Priority (Specify Date Required -> ->)									
Address: 99 Commerce Drive Winnipeg, MB		Email 1: shawna.klartanson@aecom.com Email 2: jeanna.dolester@amtrand@aecom.com		<input type="radio"/> Emergency (1 Business Day) - 100% Surcharge									
Phone: 204-928-7427 Fax: 204-284-2040		Client / Project Information		<input type="radio"/> For Emergency < 1 Day, ASAP or Weekend - Contact ALS									
Invoice To: Same as Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Job #: 60160706		Analysis Request									
Company:		PO / AFE:		Please indicate below Filtered, Preserved or both (F, P, F/P)									
Address:		LSD:											
Phone:		Quote #: Q24534											
Fax:		ALS Contact: Christine Herrod											
Lab Work Order # (lab use only)		ALS Contact: Herrod											
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Acidity	chl a + pheo a	BOD/CBOD	TOC + TIC	Anions	Tot. Metals + Hg	Diss. Metals + Hg	General Chemistry	Number of Containers
	UL1 - F10 - WQ1	13-SEP-10	10:00	Water	X	X	X	X	X	X	X	X	7
	UL1 - F10 - WQ2	13-SEP-10	10:00	WATER	X	X	X	X	X	X	X	X	7
	UL2 - F10 - WQ1	13-SEP-10	14:00	WATER	X	X	X	X	X	X	X	X	7
	UL2 - F10 - WQ2	13-SEP-10	14:00	WATER	X	X	X	X	X	X	X	X	7
Special Instructions / Regulations / 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 RECEIPTON (lab use only)				SHIPMENT VERIFICATION (lab use only)					
Released by: <i>[Signature]</i>	Date: 13-SEP-10	Time: 18:46	Received by: <i>[Signature]</i>	Date: Sep 15 10	Time: 9:30	Temperature: °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
Phone: 204-928-7427

Date Received: 18-SEP-10
Report Date: 25-OCT-10 10:15 (MT)
Version: FINAL

Certificate of Analysis

Lab Work Order #: L933234
Project P.O. #: NOT SUBMITTED
Job Reference: 60160706
Legal Site Desc:
C of C Numbers:

Paul Nicolas

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
MANITOBA TECHNOLOGY CENTRE LTD. Part of the ALS Group A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933234-1 UC2-F10-WQ1							
Sampled By: CLIENT on 15-SEP-10 @ 16:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Note: Initial pH > Titration endpoint(pH 8.300)							
Ammonia as N	0.164		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	1.6		1.0	mg/L	18-SEP-10	23-SEP-10	R1475234
Dissolved Organic Carbon	13.0		1.0	mg/L		29-SEP-10	R1482811
Hardness (as CaCO3)	170		0.20	mg/L		21-SEP-10	
Hardness (as CaCO3)	187		0.30	mg/L		24-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473107
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		21-SEP-10	
Phosphorus, Total	0.0171		0.0020	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	6.3		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	172		5.0	mg/L		23-SEP-10	R1476650
Total Kjeldahl Nitrogen	0.58		0.20	mg/L	18-SEP-10	22-SEP-10	R1474745
Total Organic Carbon	15.9		1.0	mg/L		29-SEP-10	R1482811
Total Suspended Solids	16.0		5.0	mg/L		23-SEP-10	R1476650
Turbidity	0.28		0.10	NTU		18-SEP-10	R1472530
Anions scan (IC)							
Chloride	0.68		0.50	mg/L		20-SEP-10	R1473075
Fluoride	<0.10		0.10	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	<0.50		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0696		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Arsenic (As)-Total	0.00053		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Barium (Ba)-Total	0.0125		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Boron (B)-Total	<0.010		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cadmium (Cd)-Total	0.000011		0.000010	mg/L	21-SEP-10	21-SEP-10	R1474113
Calcium (Ca)-Total	37.1		0.10	mg/L	21-SEP-10	21-SEP-10	R1474113
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Copper (Cu)-Total	0.00087		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Iron (Fe)-Total	0.492		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Lead (Pb)-Total	0.000137		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474113
Lithium (Li)-Total	0.0026		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Magnesium (Mg)-Total	23.0		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Manganese (Mn)-Total	0.0542		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474113
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474113
Potassium (K)-Total	0.762		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Rubidium (Rb)-Total	0.00104		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Silicon (Si)-Total	3.29		0.050	mg/L	21-SEP-10	21-SEP-10	R1474113

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933234-1 UC2-F10-WQ1							
Sampled By: CLIENT on 15-SEP-10 @ 16:00							
Matrix: WATER							
Total Metals by ICP-MS							
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Sodium (Na)-Total	1.24		0.030	mg/L	21-SEP-10	21-SEP-10	R1474113
Strontium (Sr)-Total	0.0209		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tin (Sn)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Titanium (Ti)-Total	0.00267		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Vanadium (V)-Total	0.00029		0.00020	mg/L	21-SEP-10	23-SEP-10	R1476963
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474113
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	18-SEP-10	21-SEP-10	R1472607
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Arsenic (As)-Dissolved	0.00043		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Barium (Ba)-Dissolved	0.0107		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Boron (B)-Dissolved	<0.010		0.010	mg/L	18-SEP-10	21-SEP-10	R1472607
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	18-SEP-10	21-SEP-10	R1472607
Calcium (Ca)-Dissolved	33.9		0.050	mg/L	18-SEP-10	21-SEP-10	R1472607
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Copper (Cu)-Dissolved	0.00021		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Iron (Fe)-Dissolved	0.041		0.010	mg/L	18-SEP-10	21-SEP-10	R1472607
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	18-SEP-10	21-SEP-10	R1472607
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	18-SEP-10	21-SEP-10	R1472607
Magnesium (Mg)-Dissolved	20.7		0.010	mg/L	18-SEP-10	21-SEP-10	R1472607
Manganese (Mn)-Dissolved	0.00267		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	18-SEP-10	21-SEP-10	R1472607
Potassium (K)-Dissolved	0.680		0.020	mg/L	18-SEP-10	21-SEP-10	R1472607
Rubidium (Rb)-Dissolved	0.00094		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	18-SEP-10	21-SEP-10	R1472607
Silicon (Si)-Dissolved	3.24		0.050	mg/L	18-SEP-10	21-SEP-10	R1472607
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Sodium (Na)-Dissolved	1.14		0.020	mg/L	18-SEP-10	21-SEP-10	R1472607
Strontium (Sr)-Dissolved	0.0196		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	18-SEP-10	21-SEP-10	R1472607
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	23-SEP-10	R1476963
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	18-SEP-10	21-SEP-10	R1472607

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933234-1 UC2-F10-WQ1 Sampled By: CLIENT on 15-SEP-10 @ 16:00 Matrix: WATER							
Dissolved Metals by ICP-MS							
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	18-SEP-10	21-SEP-10	R1472607
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	4.0		1.0	ug/L	18-SEP-10	21-SEP-10	R1475101
Phaeophytin a	7.1		1.0	ug/L	18-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.3		1.0	ABS Ratio	18-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	167		1.0	mg/L		18-SEP-10	R1471444
Bicarbonate (HCO3)	204		2.0	mg/L		18-SEP-10	R1471444
Carbonate (CO3)	<0.60		0.60	mg/L		18-SEP-10	R1471444
Hydroxide (OH)	<0.40		0.40	mg/L		18-SEP-10	R1471444
Conductivity							
Conductivity	304		0.40	umhos/cm		18-SEP-10	R1471444
pH							
pH	7.91		0.10	pH units		18-SEP-10	R1471444
L933234-2 UC3-F10-WQ1 Sampled By: CLIENT on 16-SEP-10 @ 13:00 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	1.1		1.0	mg/L	18-SEP-10	23-SEP-10	R1475234
Dissolved Organic Carbon	15.1		1.0	mg/L		30-SEP-10	R1482811
Hardness (as CaCO3)	143		0.20	mg/L		21-SEP-10	
Hardness (as CaCO3)	147		0.30	mg/L		22-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473107
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		21-SEP-10	
Phosphorus, Total	0.0119		0.0020	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	7.4		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	156		5.0	mg/L		23-SEP-10	R1476650
Total Kjeldahl Nitrogen	0.52		0.20	mg/L	18-SEP-10	22-SEP-10	R1474745
Total Organic Carbon	19.3		1.0	mg/L		30-SEP-10	R1482811
Total Suspended Solids	<5.0		5.0	mg/L		23-SEP-10	R1476650
Turbidity	0.45		0.10	NTU		18-SEP-10	R1472530
Anions scan (IC)							
Chloride	0.95		0.50	mg/L		20-SEP-10	R1473075
Fluoride	<0.10		0.10	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	<0.50		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0175		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Arsenic (As)-Total	0.00064		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Barium (Ba)-Total	0.0106		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Boron (B)-Total	<0.010		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933234-2 UC3-F10-WQ1							
Sampled By: CLIENT on 16-SEP-10 @ 13:00							
Matrix: WATER							
Total Metals by ICP-MS							
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	21-SEP-10	21-SEP-10	R1474113
Calcium (Ca)-Total	30.5		0.10	mg/L	21-SEP-10	21-SEP-10	R1474113
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Copper (Cu)-Total	0.00030		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Iron (Fe)-Total	0.462		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Lead (Pb)-Total	<0.000090		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474113
Lithium (Li)-Total	0.0024		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Magnesium (Mg)-Total	17.2		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Manganese (Mn)-Total	0.0258		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474113
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474113
Potassium (K)-Total	0.482		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Rubidium (Rb)-Total	0.00063		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Silicon (Si)-Total	3.28		0.050	mg/L	21-SEP-10	21-SEP-10	R1474113
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Sodium (Na)-Total	1.38		0.030	mg/L	21-SEP-10	21-SEP-10	R1474113
Strontium (Sr)-Total	0.0267		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tin (Sn)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Titanium (Ti)-Total	0.00068		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Vanadium (V)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474113
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	18-SEP-10	21-SEP-10	R1472607
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Arsenic (As)-Dissolved	0.00065		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Barium (Ba)-Dissolved	0.0101		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Boron (B)-Dissolved	<0.010		0.010	mg/L	18-SEP-10	21-SEP-10	R1472607
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	18-SEP-10	21-SEP-10	R1472607
Calcium (Ca)-Dissolved	29.7		0.050	mg/L	18-SEP-10	21-SEP-10	R1472607
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Iron (Fe)-Dissolved	0.198		0.010	mg/L	18-SEP-10	21-SEP-10	R1472607
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	18-SEP-10	21-SEP-10	R1472607
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	18-SEP-10	21-SEP-10	R1472607
Magnesium (Mg)-Dissolved	16.6		0.010	mg/L	18-SEP-10	21-SEP-10	R1472607
Manganese (Mn)-Dissolved	0.00350		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933234-2 UC3-F10-WQ1							
Sampled By: CLIENT on 16-SEP-10 @ 13:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	18-SEP-10	21-SEP-10	R1472607
Potassium (K)-Dissolved	0.450		0.020	mg/L	18-SEP-10	21-SEP-10	R1472607
Rubidium (Rb)-Dissolved	0.00062		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	18-SEP-10	21-SEP-10	R1472607
Silicon (Si)-Dissolved	3.46		0.050	mg/L	18-SEP-10	21-SEP-10	R1472607
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Sodium (Na)-Dissolved	1.34		0.020	mg/L	18-SEP-10	21-SEP-10	R1472607
Strontium (Sr)-Dissolved	0.0254		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	18-SEP-10	21-SEP-10	R1472607
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Vanadium (V)-Dissolved	0.00057		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	18-SEP-10	21-SEP-10	R1472607
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	18-SEP-10	21-SEP-10	R1472607
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	1.5		1.0	ug/L	18-SEP-10	21-SEP-10	R1475101
Phaeophytin a	2.1		1.0	ug/L	18-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.3		1.0	ABS Ratio	18-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	140		1.0	mg/L		18-SEP-10	R1471444
Bicarbonate (HCO3)	171		2.0	mg/L		18-SEP-10	R1471444
Carbonate (CO3)	<0.60		0.60	mg/L		18-SEP-10	R1471444
Hydroxide (OH)	<0.40		0.40	mg/L		18-SEP-10	R1471444
Conductivity							
Conductivity	260		0.40	umhos/cm		18-SEP-10	R1471444
pH							
pH	7.72		0.10	pH units		18-SEP-10	R1471444
L933234-3 WHC-F10-WQ1							
Sampled By: CLIENT on 16-SEP-10 @ 10:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	<1.0		1.0	mg/L	18-SEP-10	23-SEP-10	R1475234
Dissolved Organic Carbon	14.8		1.0	mg/L		30-SEP-10	R1482811
Hardness (as CaCO3)	127		0.30	mg/L		22-SEP-10	
Hardness (as CaCO3)	118		0.20	mg/L		21-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473107
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		21-SEP-10	
Phosphorus, Total	0.0140		0.0020	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	7.2		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	130		5.0	mg/L		23-SEP-10	R1476650

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933234-3 WHC-F10-WQ1							
Sampled By: CLIENT on 16-SEP-10 @ 10:00							
Matrix: WATER							
Total Kjeldahl Nitrogen	0.53		0.20	mg/L	18-SEP-10	22-SEP-10	R1474745
Total Organic Carbon	17.0		1.0	mg/L		30-SEP-10	R1482811
Total Suspended Solids	<5.0		5.0	mg/L		23-SEP-10	R1476650
Turbidity	0.42		0.10	NTU		18-SEP-10	R1472530
Anions scan (IC)							
Chloride	0.54		0.50	mg/L		20-SEP-10	R1473075
Fluoride	<0.10		0.10	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	<0.50		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0075		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Arsenic (As)-Total	0.00075		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Barium (Ba)-Total	0.00800		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Boron (B)-Total	<0.010		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	21-SEP-10	21-SEP-10	R1474113
Calcium (Ca)-Total	25.7		0.10	mg/L	21-SEP-10	21-SEP-10	R1474113
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Copper (Cu)-Total	0.00030		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Iron (Fe)-Total	0.122		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Lead (Pb)-Total	<0.000090		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474113
Lithium (Li)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Magnesium (Mg)-Total	15.2		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Manganese (Mn)-Total	0.0167		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474113
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474113
Potassium (K)-Total	0.627		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Rubidium (Rb)-Total	0.00081		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Silicon (Si)-Total	3.35		0.050	mg/L	21-SEP-10	21-SEP-10	R1474113
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Sodium (Na)-Total	1.13		0.030	mg/L	21-SEP-10	21-SEP-10	R1474113
Strontium (Sr)-Total	0.0203		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tin (Sn)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Titanium (Ti)-Total	0.00033		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Vanadium (V)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474113
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	18-SEP-10	21-SEP-10	R1472607
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933234-3 WHC-F10-WQ1							
Sampled By: CLIENT on 16-SEP-10 @ 10:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Arsenic (As)-Dissolved	0.00076		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Barium (Ba)-Dissolved	0.00784		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Boron (B)-Dissolved	<0.010		0.010	mg/L	18-SEP-10	21-SEP-10	R1472607
Cadmium (Cd)-Dissolved	0.000014		0.000010	mg/L	18-SEP-10	21-SEP-10	R1472607
Calcium (Ca)-Dissolved	23.9		0.050	mg/L	18-SEP-10	21-SEP-10	R1472607
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Copper (Cu)-Dissolved	0.00025		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Iron (Fe)-Dissolved	0.068		0.010	mg/L	18-SEP-10	21-SEP-10	R1472607
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	18-SEP-10	21-SEP-10	R1472607
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	18-SEP-10	21-SEP-10	R1472607
Magnesium (Mg)-Dissolved	14.1		0.010	mg/L	18-SEP-10	21-SEP-10	R1472607
Manganese (Mn)-Dissolved	0.00279		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	18-SEP-10	21-SEP-10	R1472607
Potassium (K)-Dissolved	0.568		0.020	mg/L	18-SEP-10	21-SEP-10	R1472607
Rubidium (Rb)-Dissolved	0.00085		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	18-SEP-10	21-SEP-10	R1472607
Silicon (Si)-Dissolved	3.49		0.050	mg/L	18-SEP-10	21-SEP-10	R1472607
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Sodium (Na)-Dissolved	1.09		0.020	mg/L	18-SEP-10	21-SEP-10	R1472607
Strontium (Sr)-Dissolved	0.0193		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	18-SEP-10	21-SEP-10	R1472607
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1472607
Vanadium (V)-Dissolved	0.00044		0.00020	mg/L	18-SEP-10	21-SEP-10	R1472607
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	18-SEP-10	21-SEP-10	R1472607
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	18-SEP-10	21-SEP-10	R1472607
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	<1.0		1.0	ug/L	18-SEP-10	21-SEP-10	R1475101
Phaeophytin a	<1.0		1.0	ug/L	18-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.4		1.0	ABS Ratio	18-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	114		1.0	mg/L		18-SEP-10	R1471444
Bicarbonate (HCO3)	139		2.0	mg/L		18-SEP-10	R1471444
Carbonate (CO3)	<0.60		0.60	mg/L		18-SEP-10	R1471444
Hydroxide (OH)	<0.40		0.40	mg/L		18-SEP-10	R1471444
Conductivity							
Conductivity	213		0.40	umhos/cm		18-SEP-10	R1471444
pH							
pH	7.80		0.10	pH units		18-SEP-10	R1471444

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933234-4 GRR-F10-WQ2							
Sampled By: CLIENT on 16-SEP-10 @ 10:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		21-SEP-10	R1474128
BOD Carbonaceous	1.8		1.0	mg/L	18-SEP-10	23-SEP-10	R1475234
Dissolved Organic Carbon	12.7		1.0	mg/L		30-SEP-10	R1482811
Hardness (as CaCO3)	66.6		0.20	mg/L		24-SEP-10	
Hardness (as CaCO3)	66.6		0.30	mg/L		24-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	24-SEP-10	24-SEP-10	R1479137
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	24-SEP-10	24-SEP-10	R1479223
Nitrate and Nitrite as N	<0.071		0.071	mg/L		22-SEP-10	
Phosphorus, Total	0.0200		0.0020	mg/L		23-SEP-10	R1475686
Silicate (as SiO2)	1.5		1.0	mg/L		27-SEP-10	R1479495
Total Dissolved Solids	88.0		5.0	mg/L		23-SEP-10	R1476650
Total Kjeldahl Nitrogen	0.54		0.20	mg/L	20-SEP-10	22-SEP-10	R1474745
Total Organic Carbon	14.1		1.0	mg/L		30-SEP-10	R1482811
Total Suspended Solids	<5.0		5.0	mg/L		23-SEP-10	R1476650
Turbidity	1.62		0.10	NTU		18-SEP-10	R1472530
Anions scan (IC)							
Chloride	0.67		0.50	mg/L		21-SEP-10	R1474128
Fluoride	<0.10		0.10	mg/L		21-SEP-10	R1474128
Nitrite-N	<0.050		0.050	mg/L		21-SEP-10	R1474128
Nitrate-N	<0.050		0.050	mg/L		21-SEP-10	R1474128
Sulfate	2.25		0.50	mg/L		21-SEP-10	R1474128
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0488		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Arsenic (As)-Total	0.00074		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Barium (Ba)-Total	0.0108		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Boron (B)-Total	0.010		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	21-SEP-10	21-SEP-10	R1474113
Calcium (Ca)-Total	15.3		0.10	mg/L	21-SEP-10	21-SEP-10	R1474113
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Copper (Cu)-Total	0.00081		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Iron (Fe)-Total	0.136		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Lead (Pb)-Total	<0.000090		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474113
Lithium (Li)-Total	0.0040		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Magnesium (Mg)-Total	8.48		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Manganese (Mn)-Total	0.0310		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474113
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474113
Potassium (K)-Total	1.28		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Rubidium (Rb)-Total	0.00134		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Silicon (Si)-Total	3.30		0.050	mg/L	21-SEP-10	23-SEP-10	R1476963
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933234-4 GRR-F10-WQ2							
Sampled By: CLIENT on 16-SEP-10 @ 10:00							
Matrix: WATER							
Total Metals by ICP-MS							
Sodium (Na)-Total	2.23		0.030	mg/L	21-SEP-10	21-SEP-10	R1474113
Strontium (Sr)-Total	0.0334		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tin (Sn)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Titanium (Ti)-Total	0.00231		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Vanadium (V)-Total	0.00040		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474113
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	18-SEP-10	21-SEP-10	R1474176
Antimony (Sb)-Dissolved	0.00021		0.00020	mg/L	18-SEP-10	21-SEP-10	R1474176
Arsenic (As)-Dissolved	0.00087		0.00020	mg/L	18-SEP-10	21-SEP-10	R1474176
Barium (Ba)-Dissolved	0.0110		0.00020	mg/L	18-SEP-10	21-SEP-10	R1474176
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1474176
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1474176
Boron (B)-Dissolved	<0.010		0.010	mg/L	18-SEP-10	21-SEP-10	R1474176
Cadmium (Cd)-Dissolved	0.000016		0.000010	mg/L	18-SEP-10	21-SEP-10	R1474176
Calcium (Ca)-Dissolved	13.9		0.050	mg/L	18-SEP-10	21-SEP-10	R1474176
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1474176
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1474176
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1474176
Copper (Cu)-Dissolved	0.00053		0.00020	mg/L	18-SEP-10	21-SEP-10	R1474176
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	18-SEP-10	21-SEP-10	R1474176
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	18-SEP-10	21-SEP-10	R1474176
Lithium (Li)-Dissolved	0.0028		0.0020	mg/L	18-SEP-10	21-SEP-10	R1474176
Magnesium (Mg)-Dissolved	7.75		0.010	mg/L	18-SEP-10	21-SEP-10	R1474176
Manganese (Mn)-Dissolved	0.00033		0.00010	mg/L	18-SEP-10	21-SEP-10	R1474176
Molybdenum (Mo)-Dissolved	0.00013		0.00010	mg/L	18-SEP-10	21-SEP-10	R1474176
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1474176
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	18-SEP-10	21-SEP-10	R1474176
Potassium (K)-Dissolved	1.17		0.020	mg/L	18-SEP-10	21-SEP-10	R1474176
Rubidium (Rb)-Dissolved	0.00128		0.00020	mg/L	18-SEP-10	21-SEP-10	R1474176
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	18-SEP-10	21-SEP-10	R1474176
Silicon (Si)-Dissolved	0.626		0.050	mg/L	18-SEP-10	23-SEP-10	R1476963
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1474176
Sodium (Na)-Dissolved	2.08		0.020	mg/L	18-SEP-10	21-SEP-10	R1474176
Strontium (Sr)-Dissolved	0.0314		0.00010	mg/L	18-SEP-10	21-SEP-10	R1474176
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1474176
Thallium (Tl)-Dissolved	0.00014		0.00010	mg/L	18-SEP-10	21-SEP-10	R1474176
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1474176
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1474176
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1474176
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	18-SEP-10	21-SEP-10	R1474176
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	18-SEP-10	21-SEP-10	R1474176
Vanadium (V)-Dissolved	0.00052		0.00020	mg/L	18-SEP-10	21-SEP-10	R1474176
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	18-SEP-10	21-SEP-10	R1474176
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	18-SEP-10	21-SEP-10	R1474176

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933234-4 GRR-F10-WQ2							
Sampled By: CLIENT on 16-SEP-10 @ 10:00							
Matrix: WATER							
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	5.5		1.0	ug/L	18-SEP-10	21-SEP-10	R1475101
Phaeophytin a	2.6		1.0	ug/L	18-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.5		1.0	ABS Ratio	18-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO ₃)	66.9		1.0	mg/L		21-SEP-10	R1473917
Bicarbonate (HCO ₃)	81.6		2.0	mg/L		21-SEP-10	R1473917
Carbonate (CO ₃)	<0.60		0.60	mg/L		21-SEP-10	R1473917
Hydroxide (OH)	<0.40		0.40	mg/L		21-SEP-10	R1473917
Conductivity							
Conductivity	137		0.40	umhos/cm		21-SEP-10	R1473917
pH							
pH	7.99		0.10	pH units		21-SEP-10	R1473917

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

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L933234-1, -2, -3
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L933234-1, -2, -3
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L933234-4
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L933234-4
Matrix Spike	Ammonia as N	MS-B	L933234-1, -2, -3, -4

Qualifiers for Individual Samples Listed:

Sample Number	Client ID	Qualifier	Description
L933234-1	UC2-F10-WQ1	EHR	Exceeded Recommended Holding Time On Receipt: Proceed With Analysis As Requested
L933234-3	WHC-F10-WQ1	EHR	Exceeded Recommended Holding Time On Receipt: Proceed With Analysis As Requested

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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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.

ANIONS5-IC-WP Water Anions scan (IC) 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".

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/A,PHEO/A-ACET-WP Water Chlorophyll-a & Pheophytin-a APHA 10200H, 1998-664/750NM

Chlorophyll-a is filtered from the sample, then extracted with 90% (v/v) acetone. Absorbance is measured spectrophotometrically at 664 nm and 750 nm. The extract is then acidified, converting chlorophyll-a to pheophytin-a. Absorbance is determined again after acidification. The chlorophyll-a concentration is determined from the decrease in absorbance upon acidification. When a detection limit of 0.5 ug/L is required, the volume of sample filtered is doubled to 700mL.

Samples with an OD664 before/OD665 after acidification ratio (664b/665a) of 1.70 are considered to contain no pheophytin a and to be in excellent physiological condition. Solutions of pure pheophytin show no reduction in OD665 upon acidification and have a 664b/665a ratio of 1.0 Thus, mixtures of chlorophyll a and pheophytin a have absorption peak ratios ranging between 1.0 and 1.7. These ratios are based on the use of 90% acetone as solvent.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
CONSULT-BOD-CBOD-WP	Water	Carbonaceous BOD	APHA 5210 B-5 day Incub.-O2 electrode
<p>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.</p>			
EC-WP	Water	Conductivity	APHA 2510B
<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	Calculated
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	Calculated
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 - Colourimetric using Salicylate-nitroprusside and hypochlorite, in an alkaline phosphate buffer.</p>			
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
P-TOTAL-WP	Water	Phosphorus, Total	APHA, 1998 P-T
<p>Samples are digested using a sulphuric acid-persulfate mixture to convert organic phosphorous to orthophosphate. The samples are analyzed by either the Flow Injection Analysis (FIA) or the Segmented Flow Analysis (SFA) method. The absorbance measured by the instrument is proportional to the concentration of orthophosphate in the sample, and is reported as phosphorous.</p>			
PH-WP	Water	pH	APHA 4500H
<p>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>			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
SILICATE-COL-VA	Water	Silicate by Colourimetric analysis	APHA 4500-SIO2 D.
This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 D. "Silica". Silicate (molybdate-reactive silica) is determined by the molybdosilicate-heteropoly blue colourimetric method.			
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540
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 2540
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 LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA
VA	ALS LABORATORY GROUP - VANCOUVER, BC, 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: L933234

Report Date: 25-OCT-10

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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	R1476323							
WG1172258-1	CVS							
Acidity (as CaCO3)			106		%		85-115	23-SEP-10
WG1172258-2	DUP	L935000-1						
Acidity (as CaCO3)		2.2	2.1	J	mg/L	0.2	4	23-SEP-10
ALK-TOT-WP								
	Water							
Batch	R1471444							
WG1169764-5	CVS							
Alkalinity, Total (as CaCO3)			100		%		85-115	18-SEP-10
WG1169764-9	DUP	L933241-1						
Alkalinity, Total (as CaCO3)		<1.0	139		mg/L	0.057	20	18-SEP-10
Bicarbonate (HCO3)		<2.0	170		mg/L	0.057	26	18-SEP-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	18-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	18-SEP-10
Batch	R1473917							
WG1170561-5	CVS							
Alkalinity, Total (as CaCO3)			100		%		85-115	21-SEP-10
WG1170561-8	DUP	L933613-4						
Alkalinity, Total (as CaCO3)		268	268		mg/L	0.075	20	21-SEP-10
Bicarbonate (HCO3)		327	327		mg/L	0.075	26	21-SEP-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	21-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	21-SEP-10
ANIONS5-IC-WP								
	Water							
Batch	R1473075							
WG1170535-2	LCS							
Chloride			98		%		85-115	20-SEP-10
Fluoride			100		%		85-115	20-SEP-10
Nitrite-N			101		%		85-115	20-SEP-10
Nitrate-N			96		%		85-115	20-SEP-10
Sulfate			99		%		85-115	20-SEP-10
WG1170535-1	MB							
Chloride			<0.50		mg/L		0.5	20-SEP-10
Fluoride			<0.10		mg/L		0.1	20-SEP-10
Nitrite-N			<0.050		mg/L		0.05	20-SEP-10
Nitrate-N			<0.050		mg/L		0.05	20-SEP-10
Sulfate			<0.50		mg/L		0.5	20-SEP-10



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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
ANIONS5-IC-WP								
	Water							
Batch	R1474128							
WG1171174-3	DUP	L933665-1						
Chloride		19.2	19.3		mg/L	0.44	20	21-SEP-10
Fluoride		0.15	0.15	J	mg/L	0.00	0.4	21-SEP-10
Nitrite-N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	21-SEP-10
Nitrate-N		<0.050	<0.050	RPD-NA	mg/L	N/A	20	21-SEP-10
Sulfate		36.4	36.6		mg/L	0.52	20	21-SEP-10
WG1171174-2	LCS							
Chloride			98		%		85-115	21-SEP-10
Fluoride			100		%		85-115	21-SEP-10
Nitrite-N			97		%		85-115	21-SEP-10
Nitrate-N			96		%		85-115	21-SEP-10
Sulfate			99		%		85-115	21-SEP-10
WG1171174-1	MB							
Chloride			<0.50		mg/L		0.5	21-SEP-10
Fluoride			<0.10		mg/L		0.1	21-SEP-10
Nitrite-N			<0.050		mg/L		0.05	21-SEP-10
Nitrate-N			<0.050		mg/L		0.05	21-SEP-10
Sulfate			<0.50		mg/L		0.5	21-SEP-10
WG1171174-4	MS	L933665-1						
Chloride			101		%		75-125	21-SEP-10
Fluoride			105		%		75-125	21-SEP-10
Nitrite-N			95		%		75-125	21-SEP-10
Nitrate-N			98		%		75-125	21-SEP-10
Sulfate			100		%		75-125	21-SEP-10
BR-IC-WP								
	Water							
Batch	R1473075							
WG1170535-2	LCS							
Bromide (Br)			102		%		85-115	20-SEP-10
WG1170535-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	20-SEP-10
Batch	R1474128							
WG1171174-2	LCS							
Bromide (Br)			99		%		85-115	21-SEP-10
WG1171174-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	21-SEP-10
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	R1482811							
WG1176016-3	CCV							
	Dissolved Organic Carbon		94		%		63-138	29-SEP-10
WG1176016-2	CVS							
	Dissolved Organic Carbon		101		%		80-120	29-SEP-10
WG1176011-2	DUP	L933234-1						
	Dissolved Organic Carbon	13.0	12.9		mg/L	0.83	20	29-SEP-10
WG1176011-1	MB							
	Dissolved Organic Carbon		<1.0		mg/L		1	29-SEP-10
C-TOT-ORG-WP								
	Water							
Batch	R1482811							
WG1176016-3	CCV							
	Total Organic Carbon		96		%		63-138	29-SEP-10
WG1176016-2	CVS							
	Total Organic Carbon		100		%		80-120	29-SEP-10
WG1176016-4	DUP	L933234-1						
	Total Organic Carbon	15.9	15.4		mg/L	3.1	20	29-SEP-10
WG1176016-1	MB							
	Total Organic Carbon		<1.0		mg/L		1	29-SEP-10
CHL/A,PHEO/A-ACET-WP								
	Water							
Batch	R1475101							
WG1170206-1	CVS							
	Chlorophyll a		96		%		65-135	21-SEP-10
WG1170206-2	CVS							
	Chlorophyll a		86		%		65-135	21-SEP-10
CONSULT-BOD-CBOD-WP								
	Water							
Batch	R1475234							
WG1169360-3	DUP	L933234-1						
	BOD Carbonaceous	1.6	1.5	J	mg/L	0.1	4	23-SEP-10
WG1169360-2	IRM	61-GG						
	BOD Carbonaceous		92		%		85-115	23-SEP-10
WG1169360-1	MB							
	BOD Carbonaceous		<1.0		mg/L		1	23-SEP-10
EC-WP								
	Water							
Batch	R1471444							
WG1169764-2	CCV							
	Conductivity		103		%		95-105	18-SEP-10
WG1169764-1	CVS							



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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	R1471444							
WG1169764-1	CVS							
Conductivity			99		%		90-110	18-SEP-10
WG1169764-6	DUP	L932950-1						
Conductivity		11500	11500		umhos/cm	0.17	10	18-SEP-10
WG1169764-7	DUP	L932950-6						
Conductivity		6220	6220		umhos/cm	0.050	10	18-SEP-10
WG1169764-9	DUP	L933241-1						
Conductivity		17.4	268		umhos/cm	0.37	10	18-SEP-10
Batch	R1473917							
WG1170561-2	CCV							
Conductivity			103		%		95-105	21-SEP-10
WG1170561-1	CVS							
Conductivity			99		%		90-110	21-SEP-10
WG1170561-6	DUP	L933698-1						
Conductivity		716	716		umhos/cm	0.066	10	21-SEP-10
WG1170561-8	DUP	L933613-4						
Conductivity		502	503		umhos/cm	0.10	10	21-SEP-10
HG-D-CVAF-WP		Water						
Batch	R1473107							
WG1170585-3	DUP	L930932-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170585-5	DUP	L932800-5						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170585-7	DUP	L933241-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170585-2	LCS							
Mercury (Hg)-Dissolved			97		%		63-138	20-SEP-10
Mercury (Hg)-Dissolved			97		%		63-138	20-SEP-10
WG1170584-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10
WG1170585-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10



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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	R1473107							
WG1170585-4 MS		L930932-1						
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10
WG1170585-6 MS		L932800-5						
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10
WG1170585-8 MS		L933241-1						
Mercury (Hg)-Dissolved			84		%		70-130	20-SEP-10
Mercury (Hg)-Dissolved			84		%		70-130	20-SEP-10
Batch	R1479137							
WG1174084-3 DUP		L933234-4						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
WG1174084-5 DUP		L933298-8						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
WG1174084-2 LCS								
Mercury (Hg)-Dissolved			91		%		80-120	24-SEP-10
Mercury (Hg)-Dissolved			91		%		80-120	24-SEP-10
WG1174083-1 MB								
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	24-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	24-SEP-10
WG1174084-1 MB								
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	24-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	24-SEP-10
WG1174084-4 MS		L933234-4						
Mercury (Hg)-Dissolved			97		%		70-130	24-SEP-10
Mercury (Hg)-Dissolved			97		%		70-130	24-SEP-10
WG1174084-6 MS		L933298-8						
Mercury (Hg)-Dissolved			93		%		70-130	24-SEP-10
Mercury (Hg)-Dissolved			93		%		70-130	24-SEP-10
HG-T-CVAF-WP								
	Water							
Batch	R1473170							
WG1170630-3 DUP		L932770-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170630-5 DUP		L933234-1						



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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
HG-T-CVAF-WP								
	Water							
Batch	R1473170							
WG1170630-5	DUP	L933234-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170630-7	DUP	L933298-4						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170630-2	LCS							
Mercury (Hg)-Total			105		%		63-138	20-SEP-10
Mercury (Hg)-Total			105		%		63-138	20-SEP-10
WG1170630-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	20-SEP-10
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	20-SEP-10
WG1170630-4	MS	L932770-2						
Mercury (Hg)-Total			107		%		70-130	20-SEP-10
Mercury (Hg)-Total			107		%		70-130	20-SEP-10
WG1170630-6	MS	L933234-1						
Mercury (Hg)-Total			100		%		70-130	20-SEP-10
Mercury (Hg)-Total			100		%		70-130	20-SEP-10
WG1170630-8	MS	L933298-4						
Mercury (Hg)-Total			103		%		70-130	20-SEP-10
Mercury (Hg)-Total			103		%		70-130	20-SEP-10
Batch	R1479223							
WG1174103-3	DUP	L933234-4						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
WG1174103-5	DUP	L935000-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
WG1174103-7	DUP	L935131-7						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
WG1174103-2	LCS							
Mercury (Hg)-Total			97		%		80-120	24-SEP-10
Mercury (Hg)-Total			97		%		80-120	24-SEP-10
WG1174103-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	24-SEP-10
Mercury (Hg)-Total			<0.000050				0.00005	



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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	R1479223							
WG1174103-1 MB								
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	24-SEP-10
WG1174103-4 MS		L933234-4						
Mercury (Hg)-Total			98		%		70-130	24-SEP-10
Mercury (Hg)-Total			98		%		70-130	24-SEP-10
WG1174103-6 MS		L935000-2						
Mercury (Hg)-Total			96		%		70-130	24-SEP-10
Mercury (Hg)-Total			96		%		70-130	24-SEP-10
WG1174103-8 MS		L935131-7						
Mercury (Hg)-Total			95		%		70-130	24-SEP-10
Mercury (Hg)-Total			95		%		70-130	24-SEP-10
MET-D-L-MS-WP								
	Water							
Batch	R1472607							
WG1170384-3 CCV								
Aluminum (Al)-Dissolved			95		%		90-110	20-SEP-10
Antimony (Sb)-Dissolved			95		%		90-110	20-SEP-10
Arsenic (As)-Dissolved			99		%		90-110	20-SEP-10
Barium (Ba)-Dissolved			96		%		90-110	20-SEP-10
Beryllium (Be)-Dissolved			98		%		90-110	20-SEP-10
Bismuth (Bi)-Dissolved			100		%		90-110	20-SEP-10
Boron (B)-Dissolved			105		%		90-110	20-SEP-10
Cadmium (Cd)-Dissolved			99		%		90-110	20-SEP-10
Calcium (Ca)-Dissolved			98		%		90-110	20-SEP-10
Cesium (Cs)-Dissolved			92		%		90-110	20-SEP-10
Chromium (Cr)-Dissolved			95		%		90-110	20-SEP-10
Cobalt (Co)-Dissolved			98		%		90-110	20-SEP-10
Copper (Cu)-Dissolved			100		%		90-110	20-SEP-10
Iron (Fe)-Dissolved			101		%		90-110	20-SEP-10
Lead (Pb)-Dissolved			96		%		90-110	20-SEP-10
Lithium (Li)-Dissolved			98		%		90-110	20-SEP-10
Magnesium (Mg)-Dissolved			99		%		90-110	20-SEP-10
Manganese (Mn)-Dissolved			98		%		90-110	20-SEP-10
Molybdenum (Mo)-Dissolved			102		%		90-110	20-SEP-10
Nickel (Ni)-Dissolved			99		%		90-110	20-SEP-10
Phosphorus (P)-Dissolved			98		%		90-110	20-SEP-10



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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	R1472607							
WG1170384-3	CCV							
Potassium (K)-Dissolved			94		%		90-110	20-SEP-10
Rubidium (Rb)-Dissolved			96		%		90-110	20-SEP-10
Selenium (Se)-Dissolved			99		%		90-110	20-SEP-10
Silicon (Si)-Dissolved			97		%		90-110	20-SEP-10
Silver (Ag)-Dissolved			102		%		90-110	20-SEP-10
Sodium (Na)-Dissolved			98		%		90-110	20-SEP-10
Strontium (Sr)-Dissolved			97		%		90-110	20-SEP-10
Tellurium (Te)-Dissolved			99		%		90-110	20-SEP-10
Thallium (Tl)-Dissolved			95		%		90-110	20-SEP-10
Thorium (Th)-Dissolved			96		%		63-138	20-SEP-10
Tin (Sn)-Dissolved			101		%		90-110	20-SEP-10
Titanium (Ti)-Dissolved			100		%		90-110	20-SEP-10
Tungsten (W)-Dissolved			97		%		90-110	20-SEP-10
Uranium (U)-Dissolved			94		%		90-110	20-SEP-10
Vanadium (V)-Dissolved			96		%		90-110	20-SEP-10
Zinc (Zn)-Dissolved			99		%		90-110	20-SEP-10
Zirconium (Zr)-Dissolved			97		%		90-110	20-SEP-10
WG1170384-1	CVS							
Aluminum (Al)-Dissolved			97		%		80-120	20-SEP-10
Antimony (Sb)-Dissolved			97		%		80-120	20-SEP-10
Arsenic (As)-Dissolved			102		%		80-120	20-SEP-10
Barium (Ba)-Dissolved			102		%		80-120	20-SEP-10
Beryllium (Be)-Dissolved			104		%		80-120	20-SEP-10
Bismuth (Bi)-Dissolved			103		%		80-120	20-SEP-10
Boron (B)-Dissolved			102		%		80-120	20-SEP-10
Cadmium (Cd)-Dissolved			97		%		80-120	20-SEP-10
Calcium (Ca)-Dissolved			104		%		80-120	20-SEP-10
Cesium (Cs)-Dissolved			97		%		80-120	20-SEP-10
Chromium (Cr)-Dissolved			99		%		80-120	20-SEP-10
Cobalt (Co)-Dissolved			103		%		80-120	20-SEP-10
Copper (Cu)-Dissolved			101		%		80-120	20-SEP-10
Iron (Fe)-Dissolved			104		%		80-120	20-SEP-10
Lead (Pb)-Dissolved			100		%		80-120	20-SEP-10
Lithium (Li)-Dissolved			101		%		80-120	20-SEP-10



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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	R1472607							
WG1170384-1	CVS							
Magnesium (Mg)-Dissolved			103		%		80-120	20-SEP-10
Manganese (Mn)-Dissolved			101		%		80-120	20-SEP-10
Molybdenum (Mo)-Dissolved			96		%		80-120	20-SEP-10
Nickel (Ni)-Dissolved			103		%		80-120	20-SEP-10
Phosphorus (P)-Dissolved			101		%		80-120	20-SEP-10
Potassium (K)-Dissolved			102		%		80-120	20-SEP-10
Rubidium (Rb)-Dissolved			94		%		80-120	20-SEP-10
Selenium (Se)-Dissolved			101		%		80-120	20-SEP-10
Silicon (Si)-Dissolved			95		%		63-138	20-SEP-10
Silver (Ag)-Dissolved			95		%		63-138	20-SEP-10
Sodium (Na)-Dissolved			101		%		80-120	20-SEP-10
Strontium (Sr)-Dissolved			95		%		80-120	20-SEP-10
Tellurium (Te)-Dissolved			99		%		80-120	20-SEP-10
Thallium (Tl)-Dissolved			98		%		80-120	20-SEP-10
Thorium (Th)-Dissolved			99		%		63-138	20-SEP-10
Tin (Sn)-Dissolved			97		%		80-120	20-SEP-10
Titanium (Ti)-Dissolved			97		%		80-120	20-SEP-10
Tungsten (W)-Dissolved			99		%		80-120	20-SEP-10
Uranium (U)-Dissolved			96		%		80-120	20-SEP-10
Vanadium (V)-Dissolved			99		%		80-120	20-SEP-10
Zinc (Zn)-Dissolved			102		%		80-120	20-SEP-10
Zirconium (Zr)-Dissolved			91		%		80-120	20-SEP-10
WG1170384-2	CVS							
Aluminum (Al)-Dissolved			101		%		80-120	20-SEP-10
Antimony (Sb)-Dissolved			99		%		80-120	20-SEP-10
Arsenic (As)-Dissolved			99		%		80-120	20-SEP-10
Barium (Ba)-Dissolved			100		%		80-120	20-SEP-10
Beryllium (Be)-Dissolved			103		%		80-120	20-SEP-10
Bismuth (Bi)-Dissolved			106		%		80-120	20-SEP-10
Boron (B)-Dissolved			108		%		80-120	20-SEP-10
Cadmium (Cd)-Dissolved			101		%		80-120	20-SEP-10
Calcium (Ca)-Dissolved			98		%		80-120	20-SEP-10
Cesium (Cs)-Dissolved			100		%		80-120	20-SEP-10
Chromium (Cr)-Dissolved			99		%		80-120	20-SEP-10



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	R1472607							
WG1170384-2	CVS							
Cobalt (Co)-Dissolved			103		%		80-120	20-SEP-10
Copper (Cu)-Dissolved			97		%		80-120	20-SEP-10
Iron (Fe)-Dissolved			106		%		80-120	20-SEP-10
Lead (Pb)-Dissolved			99		%		80-120	20-SEP-10
Lithium (Li)-Dissolved			100		%		80-120	20-SEP-10
Magnesium (Mg)-Dissolved			97		%		80-120	20-SEP-10
Manganese (Mn)-Dissolved			103		%		80-120	20-SEP-10
Molybdenum (Mo)-Dissolved			101		%		80-120	20-SEP-10
Nickel (Ni)-Dissolved			98		%		80-120	20-SEP-10
Phosphorus (P)-Dissolved			97		%		80-120	20-SEP-10
Potassium (K)-Dissolved			97		%		80-120	20-SEP-10
Rubidium (Rb)-Dissolved			102		%		80-120	20-SEP-10
Selenium (Se)-Dissolved			98		%		80-120	20-SEP-10
Silicon (Si)-Dissolved			97		%		63-138	20-SEP-10
Silver (Ag)-Dissolved			102		%		63-138	20-SEP-10
Sodium (Na)-Dissolved			95		%		80-120	20-SEP-10
Strontium (Sr)-Dissolved			102		%		80-120	20-SEP-10
Tellurium (Te)-Dissolved			98		%		80-120	20-SEP-10
Thallium (Tl)-Dissolved			102		%		80-120	20-SEP-10
Thorium (Th)-Dissolved			101		%		63-138	20-SEP-10
Tin (Sn)-Dissolved			101		%		80-120	20-SEP-10
Titanium (Ti)-Dissolved			93		%		80-120	20-SEP-10
Tungsten (W)-Dissolved			101		%		80-120	20-SEP-10
Uranium (U)-Dissolved			102		%		80-120	20-SEP-10
Vanadium (V)-Dissolved			101		%		80-120	20-SEP-10
Zinc (Zn)-Dissolved			98		%		80-120	20-SEP-10
Zirconium (Zr)-Dissolved			101		%		80-120	20-SEP-10
WG1170345-4	DUP	WG1170345-3						
Aluminum (Al)-Dissolved		0.0028	0.0026	J	mg/L	0.0002	0.008	21-SEP-10
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Arsenic (As)-Dissolved		0.00099	0.00100	J	mg/L	0.00002	0.0008	21-SEP-10
Barium (Ba)-Dissolved		0.357	0.356		mg/L	0.26	20	21-SEP-10
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10



Quality Control Report

Workorder: L933234

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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	R1472607							
WG1170345-4	DUP	WG1170345-3						
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Boron (B)-Dissolved		0.605	0.587		mg/L	3.1	20	21-SEP-10
Cadmium (Cd)-Dissolved		0.000079	0.000077	J	mg/L	0.000002	0.00004	21-SEP-10
Calcium (Ca)-Dissolved		144	145		mg/L	0.69	20	21-SEP-10
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Chromium (Cr)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Cobalt (Co)-Dissolved		0.00023	0.00023	J	mg/L	0.00001	0.0008	21-SEP-10
Copper (Cu)-Dissolved		0.00232	0.00242		mg/L	4.1	20	21-SEP-10
Iron (Fe)-Dissolved		0.069	0.068	J	mg/L	0.001	0.04	21-SEP-10
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	21-SEP-10
Lithium (Li)-Dissolved		0.0769	0.0744		mg/L	3.3	20	21-SEP-10
Magnesium (Mg)-Dissolved		131	130		mg/L	0.77	20	21-SEP-10
Manganese (Mn)-Dissolved		0.0573	0.0574		mg/L	0.17	20	21-SEP-10
Molybdenum (Mo)-Dissolved		0.00096	0.00097	J	mg/L	0.00001	0.0004	21-SEP-10
Nickel (Ni)-Dissolved		0.00469	0.00490		mg/L	4.5	20	21-SEP-10
Phosphorus (P)-Dissolved		0.11	0.11	J	mg/L	0.00	0.4	21-SEP-10
Potassium (K)-Dissolved		1.93	1.91		mg/L	1.2	20	21-SEP-10
Rubidium (Rb)-Dissolved		0.00128	0.00124	J	mg/L	0.00004	0.0008	21-SEP-10
Selenium (Se)-Dissolved		0.0044	0.0043	J	mg/L	0.0002	0.004	21-SEP-10
Silicon (Si)-Dissolved		13.2	13.0		mg/L	1.5	20	21-SEP-10
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Sodium (Na)-Dissolved		14.7	15.2		mg/L	3.3	20	21-SEP-10
Strontium (Sr)-Dissolved		0.945	0.957		mg/L	1.2	20	21-SEP-10
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	21-SEP-10
Tin (Sn)-Dissolved		0.00034	0.00034	J	mg/L	0.00001	0.0008	21-SEP-10
Titanium (Ti)-Dissolved		0.00062	0.00051	J	mg/L	0.00011	0.0008	21-SEP-10
Tungsten (W)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Uranium (U)-Dissolved		0.0101	0.00991		mg/L	2.0	20	21-SEP-10
Vanadium (V)-Dissolved		0.00847	0.00842		mg/L	0.58	20	21-SEP-10
Zinc (Zn)-Dissolved		0.0044	0.0043	J	mg/L	0.0000	0.008	21-SEP-10
Zirconium (Zr)-Dissolved		0.00045	0.00045		mg/L			21-SEP-10



Quality Control Report

Workorder: L933234

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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	R1472607							
WG1170345-4	DUP	WG1170345-3						
Zirconium (Zr)-Dissolved		0.00045	0.00045	J	mg/L	0.00000	0.0016	21-SEP-10
WG1170345-2	LCS							
Aluminum (Al)-Dissolved			108		%		80-120	21-SEP-10
Antimony (Sb)-Dissolved			111		%		80-120	21-SEP-10
Arsenic (As)-Dissolved			109		%		80-120	21-SEP-10
Barium (Ba)-Dissolved			109		%		80-120	21-SEP-10
Beryllium (Be)-Dissolved			116		%		80-120	21-SEP-10
Bismuth (Bi)-Dissolved			104		%		80-120	21-SEP-10
Boron (B)-Dissolved			111		%		80-120	21-SEP-10
Cadmium (Cd)-Dissolved			104		%		80-120	21-SEP-10
Calcium (Ca)-Dissolved			108		%		80-120	21-SEP-10
Cesium (Cs)-Dissolved			108		%		80-120	21-SEP-10
Chromium (Cr)-Dissolved			115		%		80-120	21-SEP-10
Cobalt (Co)-Dissolved			115		%		80-120	21-SEP-10
Copper (Cu)-Dissolved			109		%		80-120	21-SEP-10
Iron (Fe)-Dissolved			116		%		80-120	21-SEP-10
Lead (Pb)-Dissolved			106		%		80-120	21-SEP-10
Lithium (Li)-Dissolved			111		%		80-120	21-SEP-10
Magnesium (Mg)-Dissolved			109		%		80-120	21-SEP-10
Manganese (Mn)-Dissolved			105		%		80-120	21-SEP-10
Molybdenum (Mo)-Dissolved			109		%		80-120	21-SEP-10
Nickel (Ni)-Dissolved			105		%		80-120	21-SEP-10
Phosphorus (P)-Dissolved			111		%		80-120	21-SEP-10
Potassium (K)-Dissolved			109		%		80-120	21-SEP-10
Rubidium (Rb)-Dissolved			113		%		80-120	21-SEP-10
Selenium (Se)-Dissolved			107		%		80-120	21-SEP-10
Silicon (Si)-Dissolved			113		%		80-120	21-SEP-10
Silver (Ag)-Dissolved			104		%		80-120	21-SEP-10
Sodium (Na)-Dissolved			113		%		80-120	21-SEP-10
Strontium (Sr)-Dissolved			104		%		80-120	21-SEP-10
Tellurium (Te)-Dissolved			115		%		80-120	21-SEP-10
Thallium (Tl)-Dissolved			105		%		80-120	21-SEP-10
Thorium (Th)-Dissolved			106		%		80-120	21-SEP-10
Tin (Sn)-Dissolved			108		%		80-120	21-SEP-10



Quality Control Report

Workorder: L933234

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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	R1472607							
WG1170345-2	LCS							
Titanium (Ti)-Dissolved			109		%		80-120	21-SEP-10
Tungsten (W)-Dissolved			107		%		80-120	21-SEP-10
Uranium (U)-Dissolved			103		%		80-120	21-SEP-10
Vanadium (V)-Dissolved			111		%		80-120	21-SEP-10
Zinc (Zn)-Dissolved			109		%		80-120	21-SEP-10
Zirconium (Zr)-Dissolved			106		%		80-120	21-SEP-10
WG1170345-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.002	20-SEP-10
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Arsenic (As)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Boron (B)-Dissolved			<0.010		mg/L		0.01	20-SEP-10
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	20-SEP-10
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	20-SEP-10
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0001	20-SEP-10
Chromium (Cr)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	20-SEP-10
Lead (Pb)-Dissolved			<0.000090		mg/L		0.00009	20-SEP-10
Lithium (Li)-Dissolved			<0.0020		mg/L		0.002	20-SEP-10
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.01	20-SEP-10
Manganese (Mn)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0001	20-SEP-10
Nickel (Ni)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Phosphorus (P)-Dissolved			<0.10		mg/L		0.1	20-SEP-10
Potassium (K)-Dissolved			<0.020		mg/L		0.02	20-SEP-10
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Selenium (Se)-Dissolved			<0.0010		mg/L		0.001	20-SEP-10
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	20-SEP-10
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	20-SEP-10
Sodium (Na)-Dissolved			<0.020		mg/L		0.02	20-SEP-10



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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 R1472607								
WG1170345-1 MB								
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	20-SEP-10
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	20-SEP-10
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	20-SEP-10
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Tungsten (W)-Dissolved			<0.0010		mg/L		0.001	20-SEP-10
Uranium (U)-Dissolved			<0.00010		mg/L		0.0001	20-SEP-10
Vanadium (V)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.002	20-SEP-10
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.0004	20-SEP-10
Batch R1474176								
WG1171285-3 CCV								
Aluminum (Al)-Dissolved		94			%		90-110	21-SEP-10
Antimony (Sb)-Dissolved		100			%		90-110	21-SEP-10
Arsenic (As)-Dissolved		98			%		90-110	21-SEP-10
Barium (Ba)-Dissolved		100			%		90-110	21-SEP-10
Beryllium (Be)-Dissolved		95			%		90-110	21-SEP-10
Bismuth (Bi)-Dissolved		100			%		90-110	21-SEP-10
Boron (B)-Dissolved		96			%		90-110	21-SEP-10
Cadmium (Cd)-Dissolved		97			%		90-110	21-SEP-10
Calcium (Ca)-Dissolved		98			%		90-110	21-SEP-10
Cesium (Cs)-Dissolved		99			%		90-110	21-SEP-10
Chromium (Cr)-Dissolved		99			%		90-110	21-SEP-10
Cobalt (Co)-Dissolved		101			%		90-110	21-SEP-10
Copper (Cu)-Dissolved		99			%		90-110	21-SEP-10
Iron (Fe)-Dissolved		100			%		90-110	21-SEP-10
Lead (Pb)-Dissolved		100			%		90-110	21-SEP-10
Lithium (Li)-Dissolved		100			%		90-110	21-SEP-10
Magnesium (Mg)-Dissolved		96			%		90-110	21-SEP-10
Manganese (Mn)-Dissolved		98			%		90-110	21-SEP-10
Molybdenum (Mo)-Dissolved		98			%		90-110	21-SEP-10
Nickel (Ni)-Dissolved		100			%		90-110	21-SEP-10
Phosphorus (P)-Dissolved		99			%		90-110	21-SEP-10



Quality Control Report

Workorder: L933234

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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	R1474176							
WG1171285-3	CCV							
Potassium (K)-Dissolved			98		%		90-110	21-SEP-10
Rubidium (Rb)-Dissolved			98		%		90-110	21-SEP-10
Selenium (Se)-Dissolved			97		%		90-110	21-SEP-10
Silver (Ag)-Dissolved			97		%		90-110	21-SEP-10
Sodium (Na)-Dissolved			96		%		90-110	21-SEP-10
Strontium (Sr)-Dissolved			96		%		90-110	21-SEP-10
Tellurium (Te)-Dissolved			97		%		90-110	21-SEP-10
Thallium (Tl)-Dissolved			100		%		90-110	21-SEP-10
Thorium (Th)-Dissolved			95		%		63-138	21-SEP-10
Tin (Sn)-Dissolved			100		%		90-110	21-SEP-10
Titanium (Ti)-Dissolved			99		%		90-110	21-SEP-10
Tungsten (W)-Dissolved			98		%		90-110	21-SEP-10
Uranium (U)-Dissolved			95		%		90-110	21-SEP-10
Vanadium (V)-Dissolved			100		%		90-110	21-SEP-10
Zinc (Zn)-Dissolved			98		%		90-110	21-SEP-10
Zirconium (Zr)-Dissolved			97		%		90-110	21-SEP-10
WG1171285-1	CVS							
Aluminum (Al)-Dissolved			92		%		80-120	21-SEP-10
Antimony (Sb)-Dissolved			98		%		80-120	21-SEP-10
Arsenic (As)-Dissolved			97		%		80-120	21-SEP-10
Barium (Ba)-Dissolved			101		%		80-120	21-SEP-10
Beryllium (Be)-Dissolved			97		%		80-120	21-SEP-10
Bismuth (Bi)-Dissolved			101		%		80-120	21-SEP-10
Boron (B)-Dissolved			98		%		80-120	21-SEP-10
Cadmium (Cd)-Dissolved			97		%		80-120	21-SEP-10
Calcium (Ca)-Dissolved			100		%		80-120	21-SEP-10
Cesium (Cs)-Dissolved			100		%		80-120	21-SEP-10
Chromium (Cr)-Dissolved			99		%		80-120	21-SEP-10
Cobalt (Co)-Dissolved			101		%		80-120	21-SEP-10
Copper (Cu)-Dissolved			99		%		80-120	21-SEP-10
Iron (Fe)-Dissolved			98		%		80-120	21-SEP-10
Lead (Pb)-Dissolved			100		%		80-120	21-SEP-10
Lithium (Li)-Dissolved			100		%		80-120	21-SEP-10
Magnesium (Mg)-Dissolved			96		%		80-120	21-SEP-10



Quality Control Report

Workorder: L933234

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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	R1474176							
WG1171285-1 CVS								
Manganese (Mn)-Dissolved			99		%		80-120	21-SEP-10
Molybdenum (Mo)-Dissolved			96		%		80-120	21-SEP-10
Nickel (Ni)-Dissolved			100		%		80-120	21-SEP-10
Phosphorus (P)-Dissolved			95		%		80-120	21-SEP-10
Potassium (K)-Dissolved			99		%		80-120	21-SEP-10
Rubidium (Rb)-Dissolved			97		%		80-120	21-SEP-10
Selenium (Se)-Dissolved			97		%		80-120	21-SEP-10
Silver (Ag)-Dissolved			95		%		63-138	21-SEP-10
Sodium (Na)-Dissolved			95		%		80-120	21-SEP-10
Strontium (Sr)-Dissolved			95		%		80-120	21-SEP-10
Tellurium (Te)-Dissolved			95		%		80-120	21-SEP-10
Thallium (Tl)-Dissolved			100		%		80-120	21-SEP-10
Thorium (Th)-Dissolved			95		%		63-138	21-SEP-10
Tin (Sn)-Dissolved			97		%		80-120	21-SEP-10
Titanium (Ti)-Dissolved			96		%		80-120	21-SEP-10
Tungsten (W)-Dissolved			98		%		80-120	21-SEP-10
Uranium (U)-Dissolved			94		%		80-120	21-SEP-10
Vanadium (V)-Dissolved			99		%		80-120	21-SEP-10
Zinc (Zn)-Dissolved			99		%		80-120	21-SEP-10
Zirconium (Zr)-Dissolved			94		%		80-120	21-SEP-10
WG1171285-2 CVS								
Aluminum (Al)-Dissolved			102		%		80-120	21-SEP-10
Antimony (Sb)-Dissolved			98		%		80-120	21-SEP-10
Arsenic (As)-Dissolved			101		%		80-120	21-SEP-10
Barium (Ba)-Dissolved			99		%		80-120	21-SEP-10
Beryllium (Be)-Dissolved			100		%		80-120	21-SEP-10
Bismuth (Bi)-Dissolved			103		%		80-120	21-SEP-10
Boron (B)-Dissolved			100		%		80-120	21-SEP-10
Cadmium (Cd)-Dissolved			100		%		80-120	21-SEP-10
Calcium (Ca)-Dissolved			105		%		80-120	21-SEP-10
Cesium (Cs)-Dissolved			100		%		80-120	21-SEP-10
Chromium (Cr)-Dissolved			101		%		80-120	21-SEP-10
Cobalt (Co)-Dissolved			99		%		80-120	21-SEP-10
Copper (Cu)-Dissolved			100		%		80-120	21-SEP-10



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	R1474176							
WG1171285-2	CVS							
Iron (Fe)-Dissolved			103		%		80-120	21-SEP-10
Lead (Pb)-Dissolved			101		%		80-120	21-SEP-10
Lithium (Li)-Dissolved			101		%		80-120	21-SEP-10
Magnesium (Mg)-Dissolved			100		%		80-120	21-SEP-10
Manganese (Mn)-Dissolved			102		%		80-120	21-SEP-10
Molybdenum (Mo)-Dissolved			101		%		80-120	21-SEP-10
Nickel (Ni)-Dissolved			100		%		80-120	21-SEP-10
Phosphorus (P)-Dissolved			101		%		80-120	21-SEP-10
Potassium (K)-Dissolved			101		%		80-120	21-SEP-10
Rubidium (Rb)-Dissolved			101		%		80-120	21-SEP-10
Selenium (Se)-Dissolved			102		%		80-120	21-SEP-10
Silver (Ag)-Dissolved			98		%		63-138	21-SEP-10
Sodium (Na)-Dissolved			102		%		80-120	21-SEP-10
Strontium (Sr)-Dissolved			100		%		80-120	21-SEP-10
Tellurium (Te)-Dissolved			99		%		80-120	21-SEP-10
Thallium (Tl)-Dissolved			99		%		80-120	21-SEP-10
Thorium (Th)-Dissolved			102		%		63-138	21-SEP-10
Tin (Sn)-Dissolved			99		%		80-120	21-SEP-10
Titanium (Ti)-Dissolved			100		%		80-120	21-SEP-10
Tungsten (W)-Dissolved			98		%		80-120	21-SEP-10
Uranium (U)-Dissolved			101		%		80-120	21-SEP-10
Vanadium (V)-Dissolved			101		%		80-120	21-SEP-10
Zinc (Zn)-Dissolved			101		%		80-120	21-SEP-10
Zirconium (Zr)-Dissolved			101		%		80-120	21-SEP-10
WG1171276-4	DUP	WG1171276-3						
Aluminum (Al)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	22-SEP-10
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Arsenic (As)-Dissolved		0.00127	0.00125	J	mg/L	0.00002	0.0008	22-SEP-10
Barium (Ba)-Dissolved		0.0544	0.0536		mg/L	1.4	20	22-SEP-10
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Boron (B)-Dissolved		0.028	0.026	J	mg/L	0.002	0.04	22-SEP-10
Cadmium (Cd)-Dissolved		0.000010	0.000011	J	mg/L	0.000001	0.00004	22-SEP-10



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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	R1474176							
WG1171276-4	DUP	WG1171276-3						
Calcium (Ca)-Dissolved		72.3	71.9		mg/L	0.55	20	22-SEP-10
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	22-SEP-10
Chromium (Cr)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Cobalt (Co)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Copper (Cu)-Dissolved		0.00082	0.00077	J	mg/L	0.00005	0.0008	22-SEP-10
Iron (Fe)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	22-SEP-10
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	22-SEP-10
Lithium (Li)-Dissolved		0.0093	0.0088	J	mg/L	0.0004	0.008	22-SEP-10
Magnesium (Mg)-Dissolved		23.1	22.9		mg/L	1.0	20	22-SEP-10
Manganese (Mn)-Dissolved		0.135	0.134		mg/L	1.1	20	22-SEP-10
Molybdenum (Mo)-Dissolved		0.00358	0.00364		mg/L	1.4	20	22-SEP-10
Nickel (Ni)-Dissolved		0.00133	0.00137	J	mg/L	0.00004	0.0008	22-SEP-10
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	20	22-SEP-10
Potassium (K)-Dissolved		1.65	1.63		mg/L	1.5	20	22-SEP-10
Rubidium (Rb)-Dissolved		0.00107	0.00107	J	mg/L	0.00000	0.0008	22-SEP-10
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	22-SEP-10
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	22-SEP-10
Sodium (Na)-Dissolved		5.41	5.21		mg/L	3.8	20	22-SEP-10
Strontium (Sr)-Dissolved		0.117	0.116		mg/L	0.98	20	22-SEP-10
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	22-SEP-10
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	22-SEP-10
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Titanium (Ti)-Dissolved		0.00038	0.00023	J	mg/L	0.00015	0.0008	22-SEP-10
Tungsten (W)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Uranium (U)-Dissolved		0.00087	0.00087	J	mg/L	0.00000	0.0004	22-SEP-10
Vanadium (V)-Dissolved		0.00120	0.00119	J	mg/L	0.00002	0.0008	22-SEP-10
Zinc (Zn)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	22-SEP-10
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	22-SEP-10
WG1171276-2	LCS							
Aluminum (Al)-Dissolved			100		%		80-120	21-SEP-10
Antimony (Sb)-Dissolved			99		%		80-120	21-SEP-10
Arsenic (As)-Dissolved			102		%		80-120	21-SEP-10



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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	R1474176							
WG1171276-2	LCS							
Barium (Ba)-Dissolved			106		%		80-120	21-SEP-10
Beryllium (Be)-Dissolved			108		%		80-120	21-SEP-10
Bismuth (Bi)-Dissolved			103		%		80-120	21-SEP-10
Boron (B)-Dissolved			104		%		80-120	21-SEP-10
Cadmium (Cd)-Dissolved			103		%		80-120	21-SEP-10
Calcium (Ca)-Dissolved			102		%		80-120	21-SEP-10
Cesium (Cs)-Dissolved			108		%		80-120	21-SEP-10
Chromium (Cr)-Dissolved			106		%		80-120	21-SEP-10
Cobalt (Co)-Dissolved			106		%		80-120	21-SEP-10
Copper (Cu)-Dissolved			102		%		80-120	21-SEP-10
Iron (Fe)-Dissolved			102		%		80-120	21-SEP-10
Lead (Pb)-Dissolved			99		%		80-120	21-SEP-10
Lithium (Li)-Dissolved			104		%		80-120	21-SEP-10
Magnesium (Mg)-Dissolved			105		%		80-120	21-SEP-10
Manganese (Mn)-Dissolved			106		%		80-120	21-SEP-10
Molybdenum (Mo)-Dissolved			105		%		80-120	21-SEP-10
Nickel (Ni)-Dissolved			102		%		80-120	21-SEP-10
Phosphorus (P)-Dissolved			109		%		80-120	21-SEP-10
Potassium (K)-Dissolved			103		%		80-120	21-SEP-10
Rubidium (Rb)-Dissolved			108		%		80-120	21-SEP-10
Selenium (Se)-Dissolved			102		%		80-120	21-SEP-10
Silver (Ag)-Dissolved			104		%		80-120	21-SEP-10
Sodium (Na)-Dissolved			107		%		80-120	21-SEP-10
Strontium (Sr)-Dissolved			101		%		80-120	21-SEP-10
Tellurium (Te)-Dissolved			108		%		80-120	21-SEP-10
Thallium (Tl)-Dissolved			100		%		80-120	21-SEP-10
Thorium (Th)-Dissolved			98		%		80-120	21-SEP-10
Tin (Sn)-Dissolved			101		%		80-120	21-SEP-10
Titanium (Ti)-Dissolved			105		%		80-120	21-SEP-10
Tungsten (W)-Dissolved			104		%		80-120	21-SEP-10
Uranium (U)-Dissolved			105		%		80-120	21-SEP-10
Vanadium (V)-Dissolved			106		%		80-120	21-SEP-10
Zinc (Zn)-Dissolved			104		%		80-120	21-SEP-10



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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	R1474176							
WG1171276-2	LCS							
Zirconium (Zr)-Dissolved			103		%		80-120	21-SEP-10
WG1171276-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.002	21-SEP-10
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Arsenic (As)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Boron (B)-Dissolved			<0.010		mg/L		0.01	21-SEP-10
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	21-SEP-10
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	21-SEP-10
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0001	21-SEP-10
Chromium (Cr)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	21-SEP-10
Lead (Pb)-Dissolved			<0.000090		mg/L		0.00009	21-SEP-10
Lithium (Li)-Dissolved			<0.0020		mg/L		0.002	21-SEP-10
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.01	21-SEP-10
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	21-SEP-10
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0001	21-SEP-10
Nickel (Ni)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Phosphorus (P)-Dissolved			<0.10		mg/L		0.1	21-SEP-10
Potassium (K)-Dissolved			<0.020		mg/L		0.02	21-SEP-10
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Selenium (Se)-Dissolved			<0.0010		mg/L		0.001	21-SEP-10
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	21-SEP-10
Sodium (Na)-Dissolved			<0.020		mg/L		0.02	21-SEP-10
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	21-SEP-10
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	21-SEP-10
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	21-SEP-10
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10



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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 R1474176								
WG1171276-1 MB								
	Tungsten (W)-Dissolved		<0.00020		mg/L		0.0002	21-SEP-10
	Uranium (U)-Dissolved		<0.00010		mg/L		0.0001	21-SEP-10
	Vanadium (V)-Dissolved		<0.00020		mg/L		0.0002	21-SEP-10
	Zinc (Zn)-Dissolved		<0.0020		mg/L		0.002	21-SEP-10
	Zirconium (Zr)-Dissolved		<0.00040		mg/L		0.0004	21-SEP-10
Batch R1476963								
WG1172868-3 CCV								
	Silicon (Si)-Dissolved		97		%		90-110	23-SEP-10
	Vanadium (V)-Dissolved		104		%		90-110	23-SEP-10
WG1172868-1 CVS								
	Silicon (Si)-Dissolved		104		%		63-138	23-SEP-10
	Vanadium (V)-Dissolved		100		%		80-120	23-SEP-10
WG1172868-2 CVS								
	Silicon (Si)-Dissolved		103		%		63-138	23-SEP-10
	Vanadium (V)-Dissolved		102		%		80-120	23-SEP-10
MET-T-L-MS-WP		Water						
Batch R1474113								
WG1171232-3 CCV								
	Aluminum (Al)-Total		98		%		90-110	21-SEP-10
	Antimony (Sb)-Total		99		%		90-110	21-SEP-10
	Arsenic (As)-Total		98		%		90-110	21-SEP-10
	Barium (Ba)-Total		95		%		90-110	21-SEP-10
	Beryllium (Be)-Total		105		%		90-110	21-SEP-10
	Bismuth (Bi)-Total		100		%		90-110	21-SEP-10
	Boron (B)-Total		107		%		90-110	21-SEP-10
	Cadmium (Cd)-Total		96		%		90-110	21-SEP-10
	Calcium (Ca)-Total		99		%		90-110	21-SEP-10
	Cesium (Cs)-Total		101		%		90-110	21-SEP-10
	Chromium (Cr)-Total		96		%		90-110	21-SEP-10
	Cobalt (Co)-Total		95		%		90-110	21-SEP-10
	Copper (Cu)-Total		100		%		90-110	21-SEP-10
	Iron (Fe)-Total		93		%		90-110	21-SEP-10
	Lead (Pb)-Total		96		%		90-110	21-SEP-10
	Lithium (Li)-Total		110		%		90-110	21-SEP-10



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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	R1474113							
WG1171232-3	CCV							
Magnesium (Mg)-Total			103		%		90-110	21-SEP-10
Manganese (Mn)-Total			99		%		90-110	21-SEP-10
Molybdenum (Mo)-Total			97		%		90-110	21-SEP-10
Nickel (Ni)-Total			97		%		90-110	21-SEP-10
Phosphorus (P)-Total			94		%		90-110	21-SEP-10
Potassium (K)-Total			97		%		90-110	21-SEP-10
Rubidium (Rb)-Total			95		%		90-110	21-SEP-10
Selenium (Se)-Total			96		%		90-110	21-SEP-10
Silicon (Si)-Total			100		%		90-110	21-SEP-10
Silver (Ag)-Total			97		%		90-110	21-SEP-10
Sodium (Na)-Total			101		%		90-110	21-SEP-10
Strontium (Sr)-Total			95		%		90-110	21-SEP-10
Tellurium (Te)-Total			98		%		90-110	21-SEP-10
Thallium (Tl)-Total			99		%		90-110	21-SEP-10
Thorium (Th)-Total			96		%		63-138	21-SEP-10
Tin (Sn)-Total			98		%		90-110	21-SEP-10
Titanium (Ti)-Total			100		%		90-110	21-SEP-10
Tungsten (W)-Total			94		%		90-110	21-SEP-10
Uranium (U)-Total			92		%		90-110	21-SEP-10
Vanadium (V)-Total			100		%		90-110	21-SEP-10
Zinc (Zn)-Total			96		%		90-110	21-SEP-10
Zirconium (Zr)-Total			94		%		90-110	21-SEP-10
WG1171232-1	CVS							
Aluminum (Al)-Total			97		%		63-138	21-SEP-10
Antimony (Sb)-Total			98		%		63-138	21-SEP-10
Arsenic (As)-Total			100		%		63-138	21-SEP-10
Barium (Ba)-Total			99		%		63-138	21-SEP-10
Beryllium (Be)-Total			103		%		63-138	21-SEP-10
Bismuth (Bi)-Total			103		%		63-138	21-SEP-10
Boron (B)-Total			106		%		63-138	21-SEP-10
Cadmium (Cd)-Total			97		%		63-138	21-SEP-10
Calcium (Ca)-Total			101		%		63-138	21-SEP-10
Cesium (Cs)-Total			103		%		63-138	21-SEP-10
Chromium (Cr)-Total			99		%		63-138	21-SEP-10



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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	R1474113							
WG1171232-1	CVS							
Cobalt (Co)-Total			98		%		63-138	21-SEP-10
Copper (Cu)-Total			101		%		63-138	21-SEP-10
Iron (Fe)-Total			98		%		63-138	21-SEP-10
Lead (Pb)-Total			99		%		63-138	21-SEP-10
Lithium (Li)-Total			106		%		63-138	21-SEP-10
Magnesium (Mg)-Total			99		%		63-138	21-SEP-10
Manganese (Mn)-Total			101		%		63-138	21-SEP-10
Molybdenum (Mo)-Total			98		%		63-138	21-SEP-10
Nickel (Ni)-Total			102		%		63-138	21-SEP-10
Phosphorus (P)-Total			97		%		63-138	21-SEP-10
Potassium (K)-Total			102		%		63-138	21-SEP-10
Rubidium (Rb)-Total			97		%		63-138	21-SEP-10
Selenium (Se)-Total			100		%		63-138	21-SEP-10
Silicon (Si)-Total			97		%		63-138	21-SEP-10
Silver (Ag)-Total			97		%		63-138	21-SEP-10
Sodium (Na)-Total			98		%		63-138	21-SEP-10
Strontium (Sr)-Total			94		%		63-138	21-SEP-10
Tellurium (Te)-Total			97		%		63-138	21-SEP-10
Thallium (Tl)-Total			102		%		63-138	21-SEP-10
Thorium (Th)-Total			101		%		63-138	21-SEP-10
Tin (Sn)-Total			96		%		63-138	21-SEP-10
Titanium (Ti)-Total			97		%		63-138	21-SEP-10
Tungsten (W)-Total			95		%		63-138	21-SEP-10
Uranium (U)-Total			94		%		63-138	21-SEP-10
Vanadium (V)-Total			101		%		63-138	21-SEP-10
Zinc (Zn)-Total			101		%		63-138	21-SEP-10
Zirconium (Zr)-Total			94		%		63-138	21-SEP-10
WG1171232-2	CVS							
Aluminum (Al)-Total			105		%		63-138	21-SEP-10
Antimony (Sb)-Total			100		%		63-138	21-SEP-10
Arsenic (As)-Total			102		%		63-138	21-SEP-10
Barium (Ba)-Total			101		%		63-138	21-SEP-10
Beryllium (Be)-Total			105		%		63-138	21-SEP-10
Bismuth (Bi)-Total			109		%		63-138	21-SEP-10



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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	R1474113							
WG1171232-2	CVS							
Boron (B)-Total			108		%		63-138	21-SEP-10
Cadmium (Cd)-Total			104		%		63-138	21-SEP-10
Calcium (Ca)-Total			103		%		63-138	21-SEP-10
Cesium (Cs)-Total			110		%		63-138	21-SEP-10
Chromium (Cr)-Total			100		%		63-138	21-SEP-10
Cobalt (Co)-Total			102		%		63-138	21-SEP-10
Copper (Cu)-Total			103		%		63-138	21-SEP-10
Iron (Fe)-Total			103		%		63-138	21-SEP-10
Lead (Pb)-Total			103		%		63-138	21-SEP-10
Lithium (Li)-Total			108		%		63-138	21-SEP-10
Magnesium (Mg)-Total			101		%		63-138	21-SEP-10
Manganese (Mn)-Total			107		%		63-138	21-SEP-10
Molybdenum (Mo)-Total			104		%		63-138	21-SEP-10
Nickel (Ni)-Total			101		%		63-138	21-SEP-10
Phosphorus (P)-Total			100		%		63-138	21-SEP-10
Potassium (K)-Total			102		%		63-138	21-SEP-10
Rubidium (Rb)-Total			107		%		63-138	21-SEP-10
Selenium (Se)-Total			100		%		63-138	21-SEP-10
Silicon (Si)-Total			103		%		63-138	21-SEP-10
Silver (Ag)-Total			102		%		63-138	21-SEP-10
Sodium (Na)-Total			101		%		63-138	21-SEP-10
Strontium (Sr)-Total			104		%		63-138	21-SEP-10
Tellurium (Te)-Total			98		%		63-138	21-SEP-10
Thallium (Tl)-Total			105		%		63-138	21-SEP-10
Thorium (Th)-Total			102		%		63-138	21-SEP-10
Tin (Sn)-Total			103		%		63-138	21-SEP-10
Titanium (Ti)-Total			98		%		63-138	21-SEP-10
Tungsten (W)-Total			101		%		63-138	21-SEP-10
Uranium (U)-Total			101		%		63-138	21-SEP-10
Vanadium (V)-Total			108		%		63-138	21-SEP-10
Zinc (Zn)-Total			100		%		63-138	21-SEP-10
Zirconium (Zr)-Total			105		%		63-138	21-SEP-10
WG1170513-4	DUP	WG1170513-3						
Aluminum (Al)-Total		0.0696	0.0716		mg/L	2.8	20	21-SEP-10



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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	R1474113							
WG1170513-4	DUP	WG1170513-3						
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Arsenic (As)-Total		0.00053	0.00053	J	mg/L	0.00000	0.0008	21-SEP-10
Barium (Ba)-Total		0.0125	0.0125		mg/L	0.36	20	21-SEP-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	21-SEP-10
Cadmium (Cd)-Total		0.000011	0.000010	J	mg/L	0.000001	0.00004	21-SEP-10
Calcium (Ca)-Total		37.1	35.9		mg/L	3.1	20	21-SEP-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Copper (Cu)-Total		0.00087	0.00068	J	mg/L	0.00020	0.0008	21-SEP-10
Iron (Fe)-Total		0.492	0.478		mg/L	2.8	20	21-SEP-10
Lead (Pb)-Total		0.000137	0.000137	J	mg/L	0.000000	0.00036	21-SEP-10
Lithium (Li)-Total		0.0026	0.0022	J	mg/L	0.0004	0.008	21-SEP-10
Magnesium (Mg)-Total		23.0	22.1		mg/L	4.3	20	21-SEP-10
Manganese (Mn)-Total		0.0542	0.0529		mg/L	2.4	20	21-SEP-10
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	21-SEP-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	21-SEP-10
Potassium (K)-Total		0.762	0.734		mg/L	3.7	20	21-SEP-10
Rubidium (Rb)-Total		0.00104	0.00107	J	mg/L	0.00003	0.0008	21-SEP-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Silicon (Si)-Total		3.29	3.23		mg/L	1.6	20	21-SEP-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Sodium (Na)-Total		1.24	1.18		mg/L	4.4	20	21-SEP-10
Strontium (Sr)-Total		0.0209	0.0214		mg/L	2.2	20	21-SEP-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	21-SEP-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Titanium (Ti)-Total		0.00267	0.00259		mg/L	3.3	20	21-SEP-10
Tungsten (W)-Total		<0.0010	<0.0010		mg/L			21-SEP-10



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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	R1474113							
WG1170513-4 DUP		WG1170513-3						
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Vanadium (V)-Total		0.00024	0.00023	J	mg/L	0.00001	0.0008	21-SEP-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	21-SEP-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	21-SEP-10
WG1170513-6 DUP		WG1170513-5						
Aluminum (Al)-Total		0.0612	0.0580		mg/L	5.3	20	21-SEP-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Arsenic (As)-Total		0.00069	0.00069	J	mg/L	0.00000	0.0008	21-SEP-10
Barium (Ba)-Total		0.0111	0.0106		mg/L	3.8	20	21-SEP-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	21-SEP-10
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	21-SEP-10
Calcium (Ca)-Total		17.6	17.1		mg/L	2.8	20	21-SEP-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Copper (Cu)-Total		0.00060	0.00066	J	mg/L	0.00006	0.0008	21-SEP-10
Iron (Fe)-Total		0.144	0.139	J	mg/L	0.006	0.08	21-SEP-10
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	21-SEP-10
Lithium (Li)-Total		0.0030	0.0028	J	mg/L	0.0001	0.008	21-SEP-10
Magnesium (Mg)-Total		9.77	9.56		mg/L	2.2	20	21-SEP-10
Manganese (Mn)-Total		0.0281	0.0273		mg/L	3.0	20	21-SEP-10
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	21-SEP-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	21-SEP-10
Potassium (K)-Total		1.20	1.16		mg/L	2.9	20	21-SEP-10
Rubidium (Rb)-Total		0.00134	0.00132	J	mg/L	0.00002	0.0008	21-SEP-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Silicon (Si)-Total		1.45	1.43		mg/L	1.0	20	21-SEP-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Sodium (Na)-Total		2.11	2.03		mg/L	3.6	20	21-SEP-10



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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	R1474113							
WG1170513-6	DUP	WG1170513-5						
Strontium (Sr)-Total		0.0328	0.0324		mg/L	1.3	20	21-SEP-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	21-SEP-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Titanium (Ti)-Total		0.00315	0.00240	G	mg/L	27	20	21-SEP-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Vanadium (V)-Total		0.00035	0.00033	J	mg/L	0.00002	0.0008	21-SEP-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	21-SEP-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	21-SEP-10
WG1170513-2	LCS							
Aluminum (Al)-Total			106		%		80-120	21-SEP-10
Antimony (Sb)-Total			105		%		80-120	21-SEP-10
Arsenic (As)-Total			104		%		80-120	21-SEP-10
Barium (Ba)-Total			103		%		80-120	21-SEP-10
Beryllium (Be)-Total			107		%		80-120	21-SEP-10
Bismuth (Bi)-Total			109		%		80-120	21-SEP-10
Boron (B)-Total			114		%		80-120	21-SEP-10
Cadmium (Cd)-Total			101		%		80-120	21-SEP-10
Calcium (Ca)-Total			105		%		80-120	21-SEP-10
Cesium (Cs)-Total			106		%		80-120	21-SEP-10
Chromium (Cr)-Total			105		%		80-120	21-SEP-10
Cobalt (Co)-Total			104		%		80-120	21-SEP-10
Copper (Cu)-Total			103		%		80-120	21-SEP-10
Iron (Fe)-Total			101		%		80-120	21-SEP-10
Lead (Pb)-Total			101		%		80-120	21-SEP-10
Lithium (Li)-Total			108		%		80-120	21-SEP-10
Magnesium (Mg)-Total			105		%		80-120	21-SEP-10
Manganese (Mn)-Total			105		%		80-120	21-SEP-10
Molybdenum (Mo)-Total			104		%		80-120	21-SEP-10
Nickel (Ni)-Total			99		%		80-120	21-SEP-10
Phosphorus (P)-Total			106		%		80-120	21-SEP-10



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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	R1474113							
WG1170513-2	LCS							
Potassium (K)-Total			103		%		80-120	21-SEP-10
Rubidium (Rb)-Total			105		%		80-120	21-SEP-10
Selenium (Se)-Total			103		%		80-120	21-SEP-10
Silicon (Si)-Total			115		%		80-120	21-SEP-10
Silver (Ag)-Total			102		%		80-120	21-SEP-10
Sodium (Na)-Total			107		%		80-120	21-SEP-10
Strontium (Sr)-Total			100		%		80-120	21-SEP-10
Tellurium (Te)-Total			103		%		80-120	21-SEP-10
Thallium (Tl)-Total			110		%		80-120	21-SEP-10
Thorium (Th)-Total			102		%		63-138	21-SEP-10
Tin (Sn)-Total			104		%		80-120	21-SEP-10
Titanium (Ti)-Total			105		%		80-120	21-SEP-10
Tungsten (W)-Total			98		%		80-120	21-SEP-10
Uranium (U)-Total			98		%		80-120	21-SEP-10
Vanadium (V)-Total			108		%		80-120	21-SEP-10
Zinc (Zn)-Total			103		%		80-120	21-SEP-10
Zirconium (Zr)-Total			102		%		80-120	21-SEP-10
WG1170513-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.005	21-SEP-10
Antimony (Sb)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Arsenic (As)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Barium (Ba)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Beryllium (Be)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Bismuth (Bi)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Boron (B)-Total			<0.010		mg/L		0.01	21-SEP-10
Cadmium (Cd)-Total			<0.000010		mg/L		0.00001	21-SEP-10
Calcium (Ca)-Total			<0.10		mg/L		0.1	21-SEP-10
Cesium (Cs)-Total			<0.00010		mg/L		0.0001	21-SEP-10
Chromium (Cr)-Total			<0.0010		mg/L		0.001	21-SEP-10
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Copper (Cu)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Iron (Fe)-Total			<0.020		mg/L		0.02	21-SEP-10
Lead (Pb)-Total			<0.000090		mg/L		0.00009	21-SEP-10
Lithium (Li)-Total			<0.0020		mg/L		0.002	21-SEP-10



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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 R1474113								
WG1170513-1 MB								
Magnesium (Mg)-Total			<0.010		mg/L		0.01	21-SEP-10
Manganese (Mn)-Total			<0.00030		mg/L		0.0003	21-SEP-10
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Nickel (Ni)-Total			<0.0020		mg/L		0.002	21-SEP-10
Phosphorus (P)-Total			<0.20		mg/L		0.2	21-SEP-10
Potassium (K)-Total			<0.020		mg/L		0.02	21-SEP-10
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Selenium (Se)-Total			<0.0010		mg/L		0.001	21-SEP-10
Silicon (Si)-Total			<0.050		mg/L		0.05	21-SEP-10
Silver (Ag)-Total			<0.00010		mg/L		0.0001	21-SEP-10
Sodium (Na)-Total			<0.030		mg/L		0.03	21-SEP-10
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	21-SEP-10
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	21-SEP-10
Thorium (Th)-Total			<0.00010		mg/L		0.0001	21-SEP-10
Tin (Sn)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Titanium (Ti)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Tungsten (W)-Total			<0.0010		mg/L		0.001	21-SEP-10
Uranium (U)-Total			<0.00010		mg/L		0.0001	21-SEP-10
Vanadium (V)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Zinc (Zn)-Total			<0.0050		mg/L		0.005	21-SEP-10
Zirconium (Zr)-Total			<0.00040		mg/L		0.0004	21-SEP-10
Batch R1476963								
WG1172868-3 CCV								
Silicon (Si)-Total			97		%		90-110	23-SEP-10
Vanadium (V)-Total			104		%		90-110	23-SEP-10
WG1172868-1 CVS								
Silicon (Si)-Total			104		%		63-138	23-SEP-10
Vanadium (V)-Total			100		%		63-138	23-SEP-10
WG1172868-2 CVS								
Silicon (Si)-Total			103		%		63-138	23-SEP-10
Vanadium (V)-Total			102		%		63-138	23-SEP-10
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	R1474745							
WG1171475-2	CCV							
Total Kjeldahl Nitrogen			101		%		90-110	22-SEP-10
WG1171475-1	CVS							
Total Kjeldahl Nitrogen			96		%		90-110	22-SEP-10
WG1169780-4	DUP	L933264-2						
Total Kjeldahl Nitrogen		1.13	1.15	J	mg/L	0.02	0.8	22-SEP-10
WG1169780-7	DUP	L933010-4						
Total Kjeldahl Nitrogen		1.01	0.98	J	mg/L	0.03	0.8	22-SEP-10
WG1171100-4	DUP	L933606-2						
Total Kjeldahl Nitrogen		1.19	1.18	J	mg/L	0.01	0.8	22-SEP-10
WG1171100-6	DUP	L933683-1						
Total Kjeldahl Nitrogen		1.21	1.17	J	mg/L	0.04	0.8	22-SEP-10
WG1169780-2	LCS							
Total Kjeldahl Nitrogen			98		%		75-125	22-SEP-10
WG1171100-2	LCS							
Total Kjeldahl Nitrogen			102		%		75-125	22-SEP-10
WG1169780-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	22-SEP-10
WG1169780-5	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	22-SEP-10
WG1171100-1	MB							
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	22-SEP-10
WG1169780-3	MS	L933264-2						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	22-SEP-10
WG1169780-6	MS	L933010-4						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	22-SEP-10
WG1171100-3	MS	L933606-2						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	22-SEP-10
WG1171100-5	MS	L933683-1						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	22-SEP-10
NH3-COL-WP								
	Water							
Batch	R1476930							
WG1172857-3	CCV							
Ammonia as N			105		%		63-138	23-SEP-10
WG1172857-4	DUP	L933365-1						
Ammonia as N		1.87	1.88		mg/L	0.26	20	24-SEP-10
WG1172857-2	LCS							
Ammonia as N			95		%		85-115	23-SEP-10



Quality Control Report

Workorder: L933234

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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	R1476930							
WG1172857-1	MB							
Ammonia as N			<0.050		mg/L		0.05	23-SEP-10
WG1172857-5	MS	L933365-1						
Ammonia as N			N/A	MS-B	%		-	24-SEP-10
P-TOTAL-WP								
	Water							
Batch	R1473947							
WG1170564-1	CCV							
Phosphorus, Total			99		%		90-110	22-SEP-10
WG1170564-2	CCV							
Phosphorus, Total			93		%		90-110	22-SEP-10
WG1170059-10	CVS							
Phosphorus, Total			108		%		80-120	22-SEP-10
WG1170059-11	CVS							
Phosphorus, Total			102		%		80-120	22-SEP-10
WG1170059-2	CVS							
Phosphorus, Total			100		%		80-120	22-SEP-10
WG1170059-3	CVS							
Phosphorus, Total			100		%		80-120	22-SEP-10
WG1170059-6	CVS							
Phosphorus, Total			101		%		80-120	22-SEP-10
WG1170059-7	CVS							
Phosphorus, Total			109		%		80-120	22-SEP-10
WG1170059-4	DUP	L933218-5						
Phosphorus, Total		0.232	0.237		mg/L	2.1	20	22-SEP-10
WG1170059-8	DUP	L933218-8						
Phosphorus, Total		2.71	2.70		mg/L	0.37	20	22-SEP-10
WG1170059-1	MB							
Phosphorus, Total			<0.010		mg/L		0.01	22-SEP-10
WG1170059-13	MS	L933298-11						
Phosphorus, Total			114		%		70-130	22-SEP-10
Batch	R1475686							
WG1171926-1	CCV							
Phosphorus, Total			103		%		90-110	23-SEP-10
WG1171926-2	CCV							
Phosphorus, Total			94		%		90-110	23-SEP-10
WG1171597-2	CVS							
Phosphorus, Total			100		%		80-120	23-SEP-10
WG1171597-3	CVS							



Quality Control Report

Workorder: L933234

Report Date: 25-OCT-10

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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-TOTAL-WP		Water						
Batch	R1475686							
WG1171597-3	CVS							
Phosphorus, Total			103		%		80-120	23-SEP-10
WG1171597-6	CVS							
Phosphorus, Total			100		%		80-120	23-SEP-10
WG1171597-7	CVS							
Phosphorus, Total			98		%		80-120	23-SEP-10
WG1171597-4	DUP	L934334-2						
Phosphorus, Total		15.3	17.2		mg/L	12	20	23-SEP-10
WG1171597-8	DUP	L934334-5						
Phosphorus, Total		0.0823	0.0986		mg/L	18	20	23-SEP-10
WG1171597-1	MB							
Phosphorus, Total			<0.010		mg/L		0.01	23-SEP-10
WG1171597-5	MS	L934113-3						
Phosphorus, Total			102		%		70-130	23-SEP-10
WG1171597-9	MS	L934334-1						
Phosphorus, Total			100		%		70-130	23-SEP-10
PH-WP		Water						
Batch	R1471444							
WG1169764-4	CCV							
pH			100		%		90-110	18-SEP-10
WG1169764-3	CVS							
pH			100		%		99-101	18-SEP-10
WG1169764-8	DUP	L933218-9						
pH		8.11	8.10		pH units	0.049	5	18-SEP-10
WG1169764-9	DUP	L933241-1						
pH		6.18	7.83		pH units	0.26	5	18-SEP-10
Batch	R1473917							
WG1170561-4	CCV							
pH			100		%		90-110	21-SEP-10
WG1170561-3	CVS							
pH			100		%		99-101	21-SEP-10
WG1170561-7	DUP	L933736-5						
pH		7.80	7.82		pH units	0.19	5	21-SEP-10
WG1170561-8	DUP	L933613-4						
pH		8.26	8.27		pH units	0.024	5	21-SEP-10
SILICATE-COL-VA	Water							



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Workorder: L933234

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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	R1476650							
WG1172054-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	23-SEP-10
SOLIDS-TOTSUS-WP		Water						
Batch	R1476650							
WG1172054-2	CVS							
Total Suspended Solids			106		%		85-115	23-SEP-10
WG1172054-3	DUP	L934852-1						
Total Suspended Solids		520	510		mg/L	1.9	20	23-SEP-10
WG1172054-4	DUP	L932800-4						
Total Suspended Solids		<5.0	<5.0	RPD-NA	mg/L	N/A	20	23-SEP-10
WG1172054-1	MB							
Total Suspended Solids			<5.0		mg/L		5	23-SEP-10
TURBIDITY-WP		Water						
Batch	R1472530							
WG1170283-3	CCV							
Turbidity			103		%		90-110	17-SEP-10
WG1170283-4	CCV							
Turbidity			104		%		90-110	17-SEP-10
WG1170283-1	CVS							
Turbidity			98		%		63-138	17-SEP-10
WG1170283-2	CVS							
Turbidity			100		%		63-138	17-SEP-10
WG1170283-6	DUP	L932950-4						
Turbidity		375	374		NTU	0.27	15	17-SEP-10
WG1170283-7	DUP	L933218-9						
Turbidity		6.82	6.83		NTU	0.15	15	17-SEP-10
WG1170283-8	DUP	L933218-6						
Turbidity		24.8	25.2		NTU	1.6	15	17-SEP-10
WG1170283-5	LCS							
Turbidity			96		%		85-115	17-SEP-10

Quality Control Report

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Legend:

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

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: L933234

Report Date: 25-OCT-10

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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Total Dissolved Solids	1	15-SEP-10 16:00	23-SEP-10 07:56	7	8	days	EHT
Total Suspended Solids	1	15-SEP-10 16:00	23-SEP-10 07:56	7	8	days	EHT
Turbidity	1	15-SEP-10 16:00	18-SEP-10 10:20	48	66	hours	EHTR
pH	1	15-SEP-10 16:00	18-SEP-10 11:58	0.25	68	hours	EHTR-FM
	2	16-SEP-10 13:00	18-SEP-10 11:58	0.25	47	hours	EHTR-FM
	3	16-SEP-10 10:00	18-SEP-10 11:58	0.25	50	hours	EHTR-FM
	4	16-SEP-10 10:00	21-SEP-10 10:34	0.25	120	hours	EHTR-FM
Anions and Nutrients							
Anions scan (IC)	1	15-SEP-10 16:00	20-SEP-10 14:29	48	119	hours	EHTR
	2	16-SEP-10 13:00	20-SEP-10 14:29	48	97	hours	EHTL
	3	16-SEP-10 10:00	20-SEP-10 14:29	48	101	hours	EHTR
	4	16-SEP-10 10:00	21-SEP-10 12:48	48	123	hours	EHTR
Bromide	1	15-SEP-10 16:00	20-SEP-10 14:29	48	119	hours	EHTR
	2	16-SEP-10 13:00	20-SEP-10 14:29	48	97	hours	EHTL
	3	16-SEP-10 10:00	20-SEP-10 14:29	48	101	hours	EHTR
	4	16-SEP-10 10:00	21-SEP-10 12:48	48	123	hours	EHTR
Aggregate Organics							
Carbonaceous BOD	1	15-SEP-10 16:00	18-SEP-10 08:00	48	64	hours	EHTR
Organic Parameters							
Chlorophyll-a & Pheophytin-a	1	15-SEP-10 16:00	21-SEP-10 07:49	48	136	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 L933234 were received on 18-SEP-10 12:00.

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
Contact: Cliff Samolloff
Address: 99 Commerce Drive
Winnipeg, MB
Phone: 204-928-7427 Fax: 204-284-2040
 Yes No Same as Report?

Report Format / Distribution
 Standard Other
 PDF Excel Digital Fax
Email 1: shawna.kjartanson@aecocom.com
Email 2: ~~leanne.debeverman@aecocom.com~~

Service Requested (Rush for routine analysis subject to availability)
 Regular (Default)
 Priority (Specify Date Required → →)
 Emergency (1 Business Day) - 100% Surcharge
 For Emergency < 1 Day, ASAP or Weekend - Contact ALS

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

Sample #	Lab Work Order # (lab use only)	Sample Identification (This description will appear on the report)	ALS Contact:	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Analysis Request									
							Activity	Chl a + pheo a	BOD/CBOD	TOC + TIC	Anions	Tot. Metals + Hg	Diss. Metals + Hg	General Chemistry	Number of Containers	
		UC2-F10-WQ1	Christine Herrod	15-09-10	16:00	Water	X	X	X	X	X	X	X			
		UC3-F10-WQ1		16-09-10	13:00	"	X	X	X	X	X	X	X	7		
		WHC1-F10-WQ1		16-09-10	10:00	"	X	X	X	X	X	X	X	7		

Special Instructions / Regulations / 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 RECEPTION (lab-use only)
Received by: BLS Date: 19 Sept Time: 12:00 Temperature: 7.6 °C

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



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7
Phone: 204-928-7427

Date Received: 20-SEP-10
Report Date: 24-NOV-10 14:20 (MT)
Version: FINAL REV. 4

Certificate of Analysis

Lab Work Order #: L933241
Project P.O. #: NOT SUBMITTED
Job Reference: 60160706
Legal Site Desc:
C of C Numbers:

Comments: PLEASE NOTE: The order of samples reported is reversed from the order on the Chain of Custody.
19-NOV-10:
19-NOV-10: Revision1
24-NOV-10: THIS IS AN AMENDED REPORT
Fraction -1 Rerun results are reported for Total Sodium and Total Strontium

Robert S. Kitlar
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
MANITOBA TECHNOLOGY CENTRE LTD. Part of the ALS Group A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933241-1 UC4-F10-WQ2							
Sampled By: CLIENT on 17-SEP-10 @ 12:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	1.1		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	1.1		1.0	mg/L	18-SEP-10	23-SEP-10	R1475234
Colour, True	<5.0		5.0	CU		18-SEP-10	R1473127
Dissolved Organic Carbon	1.8		1.0	mg/L		30-SEP-10	R1482811
Hardness (as CaCO3)	0.23		0.20	mg/L		21-SEP-10	
Hardness (as CaCO3)	0.43		0.30	mg/L		23-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473107
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		17-NOV-10	
Phosphorus, Total	<0.010	DLA	0.010	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	<1		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	<5.0		5.0	mg/L		24-SEP-10	R1478386
Total Kjeldahl Nitrogen	<0.20		0.20	mg/L	18-SEP-10	22-SEP-10	R1474745
Total Organic Carbon	1.5		1.0	mg/L		30-SEP-10	R1482811
Total Suspended Solids	<5.0		5.0	mg/L		24-SEP-10	R1478386
Turbidity	<0.10		0.10	NTU		18-SEP-10	R1472530
Anions scan (IC)							
Chloride	<0.50		0.50	mg/L		20-SEP-10	R1473075
Fluoride	<0.10		0.10	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	<0.50		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474144
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474144
Arsenic (As)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474144
Barium (Ba)-Total	0.00024		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474144
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474144
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474144
Boron (B)-Total	<0.010		0.010	mg/L	21-SEP-10	21-SEP-10	R1474144
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	21-SEP-10	21-SEP-10	R1474144
Calcium (Ca)-Total	0.13		0.10	mg/L	21-SEP-10	21-SEP-10	R1474144
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474144
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474144
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474144
Copper (Cu)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474144
Iron (Fe)-Total	<0.020		0.020	mg/L	21-SEP-10	21-SEP-10	R1474144
Lead (Pb)-Total	<0.000090		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474144
Lithium (Li)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474144
Magnesium (Mg)-Total	0.022		0.010	mg/L	21-SEP-10	21-SEP-10	R1474144
Manganese (Mn)-Total	<0.00030		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474144
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474144
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474144
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474144
Potassium (K)-Total	0.038		0.020	mg/L	21-SEP-10	21-SEP-10	R1474144
Rubidium (Rb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474144
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474144
Silicon (Si)-Total	<0.050		0.050	mg/L	21-SEP-10	21-SEP-10	R1474144

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933241-1 UC4-F10-WQ2							
Sampled By: CLIENT on 17-SEP-10 @ 12:00							
Matrix: WATER							
Total Metals by ICP-MS							
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474144
Sodium (Na)-Total	<0.030		0.030	mg/L	21-SEP-10	18-NOV-10	R1645566
Strontium (Sr)-Total	<0.00010		0.00010	mg/L	21-SEP-10	18-NOV-10	R1645566
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474144
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474144
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474144
Tin (Sn)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474144
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474144
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474144
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474144
Vanadium (V)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474144
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474144
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474144
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1472607
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Arsenic (As)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Barium (Ba)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1472607
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	20-SEP-10	21-SEP-10	R1472607
Calcium (Ca)-Dissolved	0.091		0.050	mg/L	20-SEP-10	21-SEP-10	R1472607
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1472607
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1472607
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	20-SEP-10	21-SEP-10	R1472607
Lithium (Li)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1472607
Magnesium (Mg)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1472607
Manganese (Mn)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1472607
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	20-SEP-10	21-SEP-10	R1472607
Potassium (K)-Dissolved	<0.020		0.020	mg/L	20-SEP-10	21-SEP-10	R1472607
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	20-SEP-10	21-SEP-10	R1472607
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	20-SEP-10	21-SEP-10	R1472607
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1472607
Sodium (Na)-Dissolved	<0.020		0.020	mg/L	20-SEP-10	21-SEP-10	R1472607
Strontium (Sr)-Dissolved	0.00012		0.00010	mg/L	20-SEP-10	21-SEP-10	R1472607
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1472607
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1472607
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	20-SEP-10	21-SEP-10	R1472607
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1472607
Vanadium (V)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1472607

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933241-1 UC4-F10-WQ2 Sampled By: CLIENT on 17-SEP-10 @ 12:00 Matrix: WATER							
Dissolved Metals by ICP-MS							
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	20-SEP-10	21-SEP-10	R1472607
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	<1.0		1.0	ug/L	18-SEP-10	21-SEP-10	R1475101
Phaeophytin a	<1.0		1.0	ug/L	18-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.0		1.0	ABS Ratio	18-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	<1.0		1.0	mg/L		01-OCT-10	R1486303
Bicarbonate (HCO3)	<2.0		2.0	mg/L		01-OCT-10	R1486303
Carbonate (CO3)	<0.60		0.60	mg/L		01-OCT-10	R1486303
Hydroxide (OH)	<0.40		0.40	mg/L		01-OCT-10	R1486303
Conductivity							
Conductivity	17.4		0.40	umhos/cm		04-OCT-10	R1486305
pH							
pH	6.18		0.10	pH units		18-SEP-10	R1471444
L933241-2 UC4-F10-WQ1 Sampled By: CLIENT on 17-SEP-10 @ 12:30 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	<1.0		1.0	mg/L	18-SEP-10	23-SEP-10	R1475234
Colour, True	58.3		5.0	CU		18-SEP-10	R1473127
Dissolved Organic Carbon	18.5		1.0	mg/L		30-SEP-10	R1482811
Hardness (as CaCO3)	149		0.30	mg/L		23-SEP-10	
Hardness (as CaCO3)	145		0.20	mg/L		21-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	24-SEP-10	24-SEP-10	R1479137
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		21-SEP-10	
Phosphorus, Total	<0.010	DLA	0.010	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	6.83		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	176		5.0	mg/L		24-SEP-10	R1478386
Total Kjeldahl Nitrogen	0.59		0.20	mg/L	18-SEP-10	22-SEP-10	R1474745
Total Organic Carbon	23.3		1.0	mg/L		30-SEP-10	R1482811
Total Suspended Solids	<5.0		5.0	mg/L		24-SEP-10	R1478386
Turbidity	0.589		0.10	NTU		18-SEP-10	R1472530
Anions scan (IC)							
Chloride	3.29		0.50	mg/L		20-SEP-10	R1473075
Fluoride	<0.10		0.10	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	<0.50		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	<0.0050		0.0050	mg/L	22-SEP-10	22-SEP-10	R1475365
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	22-SEP-10	22-SEP-10	R1475365
Arsenic (As)-Total	0.00067		0.00020	mg/L	22-SEP-10	22-SEP-10	R1475365
Barium (Ba)-Total	0.00959		0.00020	mg/L	22-SEP-10	22-SEP-10	R1475365
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	22-SEP-10	22-SEP-10	R1475365
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	22-SEP-10	22-SEP-10	R1475365

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933241-2 UC4-F10-WQ1							
Sampled By: CLIENT on 17-SEP-10 @ 12:30							
Matrix: WATER							
Total Metals by ICP-MS							
Boron (B)-Total	<0.010		0.010	mg/L	22-SEP-10	22-SEP-10	R1475365
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	22-SEP-10	22-SEP-10	R1475365
Calcium (Ca)-Total	30.2		0.10	mg/L	22-SEP-10	22-SEP-10	R1475365
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	22-SEP-10	22-SEP-10	R1475365
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	22-SEP-10	22-SEP-10	R1475365
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	22-SEP-10	22-SEP-10	R1475365
Copper (Cu)-Total	<0.00020		0.00020	mg/L	22-SEP-10	22-SEP-10	R1475365
Iron (Fe)-Total	0.031		0.020	mg/L	22-SEP-10	22-SEP-10	R1475365
Lead (Pb)-Total	<0.000090		0.000090	mg/L	22-SEP-10	22-SEP-10	R1475365
Lithium (Li)-Total	0.0024		0.0020	mg/L	22-SEP-10	22-SEP-10	R1475365
Magnesium (Mg)-Total	17.9		0.010	mg/L	22-SEP-10	22-SEP-10	R1475365
Manganese (Mn)-Total	0.00284		0.00030	mg/L	22-SEP-10	22-SEP-10	R1475365
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	22-SEP-10	22-SEP-10	R1475365
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	22-SEP-10	22-SEP-10	R1475365
Phosphorus (P)-Total	<0.20		0.20	mg/L	22-SEP-10	22-SEP-10	R1475365
Potassium (K)-Total	0.541		0.020	mg/L	22-SEP-10	22-SEP-10	R1475365
Rubidium (Rb)-Total	0.00065		0.00020	mg/L	22-SEP-10	22-SEP-10	R1475365
Selenium (Se)-Total	<0.0010		0.0010	mg/L	22-SEP-10	22-SEP-10	R1475365
Silicon (Si)-Total	2.83		0.050	mg/L	22-SEP-10	22-SEP-10	R1475365
Silver (Ag)-Total	<0.00010		0.00010	mg/L	22-SEP-10	22-SEP-10	R1475365
Sodium (Na)-Total	3.14		0.030	mg/L	22-SEP-10	22-SEP-10	R1475365
Strontium (Sr)-Total	0.0408		0.00010	mg/L	22-SEP-10	22-SEP-10	R1475365
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	22-SEP-10	22-SEP-10	R1475365
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	22-SEP-10	22-SEP-10	R1475365
Thorium (Th)-Total	<0.00010		0.00010	mg/L	22-SEP-10	22-SEP-10	R1475365
Tin (Sn)-Total	<0.00020		0.00020	mg/L	22-SEP-10	22-SEP-10	R1475365
Titanium (Ti)-Total	<0.00020		0.00020	mg/L	22-SEP-10	22-SEP-10	R1475365
Tungsten (W)-Total	<0.0010		0.0010	mg/L	22-SEP-10	22-SEP-10	R1475365
Uranium (U)-Total	<0.00010		0.00010	mg/L	22-SEP-10	22-SEP-10	R1475365
Vanadium (V)-Total	<0.00020		0.00020	mg/L	22-SEP-10	22-SEP-10	R1475365
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	22-SEP-10	22-SEP-10	R1475365
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	22-SEP-10	22-SEP-10	R1475365
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0026		0.0020	mg/L	20-SEP-10	21-SEP-10	R1472607
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Arsenic (As)-Dissolved	0.00068		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Barium (Ba)-Dissolved	0.00850		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1472607
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	20-SEP-10	21-SEP-10	R1472607
Calcium (Ca)-Dissolved	30.0		0.050	mg/L	20-SEP-10	21-SEP-10	R1472607
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1472607
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Iron (Fe)-Dissolved	0.042		0.010	mg/L	20-SEP-10	21-SEP-10	R1472607
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	20-SEP-10	21-SEP-10	R1472607
Lithium (Li)-Dissolved	0.0024		0.0020	mg/L	20-SEP-10	21-SEP-10	R1472607
Magnesium (Mg)-Dissolved	17.0		0.010	mg/L	20-SEP-10	21-SEP-10	R1472607
Manganese (Mn)-Dissolved	0.00146		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933241-2 UC4-F10-WQ1							
Sampled By: CLIENT on 17-SEP-10 @ 12:30							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1472607
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	20-SEP-10	21-SEP-10	R1472607
Potassium (K)-Dissolved	0.520		0.020	mg/L	20-SEP-10	21-SEP-10	R1472607
Rubidium (Rb)-Dissolved	0.00062		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	20-SEP-10	21-SEP-10	R1472607
Silicon (Si)-Dissolved	3.35		0.050	mg/L	20-SEP-10	21-SEP-10	R1472607
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1472607
Sodium (Na)-Dissolved	3.09		0.020	mg/L	20-SEP-10	21-SEP-10	R1472607
Strontium (Sr)-Dissolved	0.0392		0.00010	mg/L	20-SEP-10	21-SEP-10	R1472607
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1472607
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1472607
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Tungsten (W)-Dissolved	<0.0010		0.0010	mg/L	20-SEP-10	21-SEP-10	R1472607
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1472607
Vanadium (V)-Dissolved	0.00041		0.00020	mg/L	20-SEP-10	21-SEP-10	R1472607
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1472607
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	20-SEP-10	21-SEP-10	R1472607
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	1.1		1.0	ug/L	18-SEP-10	21-SEP-10	R1475101
Phaeophytin a	<1.0		1.0	ug/L	18-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.7		1.0	ABS Ratio	18-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	139		1.0	mg/L		23-SEP-10	R1476556
Bicarbonate (HCO3)	170		2.0	mg/L		23-SEP-10	R1476556
Carbonate (CO3)	<0.60		0.60	mg/L		23-SEP-10	R1476556
Hydroxide (OH)	<0.40		0.40	mg/L		23-SEP-10	R1476556
Conductivity							
Conductivity	267		0.40	umhos/cm		23-SEP-10	R1476556
pH							
pH	7.81		0.10	pH units		18-SEP-10	R1471444

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

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L933241-1, -2
Matrix Spike	Total Kjeldahl Nitrogen	MS-B	L933241-1, -2
Matrix Spike	Ammonia as N	MS-B	L933241-1, -2

Sample Parameter Qualifier Key:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution
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.

ANIONS5-IC-WP	Water	Anions scan (IC)	EPA 300.1 IC
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This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".

BR-IC-WP	Water	Bromide	EPA 300.1 IC
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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
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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.

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/A,PHEO/A-ACET-WP	Water	Chlorophyll-a & Pheophytin-a	APHA 10200H, 1998-664/750NM
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Chlorophyll-a is filtered from the sample, then extracted with 90% (v/v) acetone. Absorbance is measured spectrophotometrically at 664 nm and 750 nm. The extract is then acidified, converting chlorophyll-a to pheophytin-a. Absorbance is determined again after acidification. The chlorophyll-a concentration is determined from the decrease in absorbance upon acidification. When a detection limit of 0.5 ug/L is required, the volume of sample filtered is doubled to 700mL.

Samples with an OD664 before/OD665 after acidification ratio (664b/665a) of 1.70 are considered to contain no pheophytin a and to be in excellent physiological condition. Solutions of pure pheophytin show no reduction in OD665 upon acidification and have a 664b/665a ratio of 1.0 Thus, mixtures of chlorophyll a and pheophytin a have absorption peak ratios ranging between 1.0 and 1.7. These ratios are based on the use of 90% acetone as solvent.

COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR
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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

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
		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.-O2 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	Calculated
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	Calculated
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 - Colourimetric using Salicylate-nitroprusside and hypochlorite, in an alkaline phosphate buffer.	
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
P-TOTAL-WP	Water	Phosphorus, Total	APHA, 1998 P-T
		Samples are digested using a sulphuric acid-persulfate mixture to convert organic phosphorous to orthophosphate. The samples are analyzed by either the Flow Injection Analysis (FIA) or the Segmented Flow Analysis (SFA) method. The absorbance measured by the instrument is proportional to the concentration of orthophosphate in the sample, and is reported as phosphorous.	
PH-WP	Water	pH	APHA 4500H

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
		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.	
SILICATE-COL-VA	Water	Silicate by Colourimetric analysis	APHA 4500-SIO2 D.
		This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 D. "Silica". Silicate (molybdate-reactive silica) is determined by the molybdosilicate-heteropoly blue colourimetric method.	
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540
		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 2540
		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 LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA
VA	ALS LABORATORY GROUP - VANCOUVER, BC, 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	R1476323							
WG1172258-1	CVS							
Acidity (as CaCO3)			106		%		85-115	23-SEP-10
WG1172258-2	DUP	L935000-1						
Acidity (as CaCO3)		2.2	2.1	J	mg/L	0.2	4	23-SEP-10
ALK-TOT-WP								
	Water							
Batch	R1476556							
WG1172095-5	CVS							
Alkalinity, Total (as CaCO3)			101		%		85-115	23-SEP-10
WG1172095-6	CVS							
Alkalinity, Total (as CaCO3)			101		%		85-115	23-SEP-10
WG1172095-10	DUP	L935131-1						
Alkalinity, Total (as CaCO3)		7.5	7.5	J	mg/L	0.0	4	23-SEP-10
Bicarbonate (HCO3)		9.1	9.1	J	mg/L	0.0	8	23-SEP-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	23-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	23-SEP-10
WG1172095-7	DUP	L934921-1						
Alkalinity, Total (as CaCO3)		657	657		mg/L	0.0	20	23-SEP-10
Bicarbonate (HCO3)		801	801		mg/L	0.0	26	23-SEP-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	23-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	23-SEP-10
Batch	R1486303							
WG1177066-5	CVS							
Alkalinity, Total (as CaCO3)			99		%		85-115	01-OCT-10
WG1177066-6	CVS							
Alkalinity, Total (as CaCO3)			95		%		85-115	01-OCT-10
WG1177066-7	DUP	L937965-1						
Alkalinity, Total (as CaCO3)		174	174		mg/L	0.0	20	01-OCT-10
Bicarbonate (HCO3)		212	212		mg/L	0.0	26	01-OCT-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	01-OCT-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	01-OCT-10
WG1177066-8	DUP	L937910-1						
Alkalinity, Total (as CaCO3)		11.9	23.7		mg/L	0.25	20	01-OCT-10
Bicarbonate (HCO3)		14.5	28.9		mg/L	0.25	26	01-OCT-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	01-OCT-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	01-OCT-10
WG1177066-9	DUP	L938122-1						



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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
ALK-TOT-WP								
	Water							
Batch	R1486303							
WG1177066-9	DUP	L938122-1						
Alkalinity, Total (as CaCO3)		175	175		mg/L	0.034	20	01-OCT-10
Bicarbonate (HCO3)		214	214		mg/L	0.034	26	01-OCT-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	01-OCT-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	01-OCT-10
ANIONS5-IC-WP								
	Water							
Batch	R1473075							
WG1170535-2	LCS							
Chloride			98		%		85-115	20-SEP-10
Fluoride			100		%		85-115	20-SEP-10
Nitrite-N			101		%		85-115	20-SEP-10
Nitrate-N			96		%		85-115	20-SEP-10
Sulfate			99		%		85-115	20-SEP-10
WG1170535-1	MB							
Chloride			<0.50		mg/L		0.5	20-SEP-10
Fluoride			<0.10		mg/L		0.1	20-SEP-10
Nitrite-N			<0.050		mg/L		0.05	20-SEP-10
Nitrate-N			<0.050		mg/L		0.05	20-SEP-10
Sulfate			<0.50		mg/L		0.5	20-SEP-10
BR-IC-WP								
	Water							
Batch	R1473075							
WG1170535-2	LCS							
Bromide (Br)			102		%		85-115	20-SEP-10
WG1170535-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	20-SEP-10
C-DIS-ORG-WP								
	Water							
Batch	R1482811							
WG1176016-3	CCV							
Dissolved Organic Carbon			94		%		63-138	29-SEP-10
WG1176016-2	CVS							
Dissolved Organic Carbon			101		%		80-120	29-SEP-10
WG1176011-2	DUP	L933234-1						
Dissolved Organic Carbon		13.0	12.9		mg/L	0.83	20	29-SEP-10
WG1176011-1	MB							
Dissolved Organic Carbon			<1.0		mg/L		1	29-SEP-10
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	R1482811							
WG1176016-3	CCV							
Total Organic Carbon			96		%		63-138	29-SEP-10
WG1176016-2	CVS							
Total Organic Carbon			100		%		80-120	29-SEP-10
WG1176016-4	DUP	L933234-1						
Total Organic Carbon		15.9	15.4		mg/L	3.1	20	29-SEP-10
WG1176016-1	MB							
Total Organic Carbon			<1.0		mg/L		1	29-SEP-10
CHL/A,PHEO/A-ACET-WP								
	Water							
Batch	R1475101							
WG1170206-1	CVS							
Chlorophyll a			96		%		65-135	21-SEP-10
WG1170206-2	CVS							
Chlorophyll a			86		%		65-135	21-SEP-10
COLOUR-TRUE-WP								
	Water							
Batch	R1473127							
WG1170609-3	DUP	L933241-1						
Colour, True		<5.0	71.0		CU	20	20	18-SEP-10
WG1170609-2	LCS							
Colour, True			105		%		85-115	18-SEP-10
WG1170609-1	MB							
Colour, True			<5.0		CU		5	18-SEP-10
CONSULT-BOD-CBOD-WP								
	Water							
Batch	R1475234							
WG1169360-3	DUP	L933234-1						
BOD Carbonaceous		1.6	1.5	J	mg/L	0.1	4	23-SEP-10
WG1169360-2	IRM	61-GG						
BOD Carbonaceous			92		%		85-115	23-SEP-10
WG1169360-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	23-SEP-10
EC-WP								
	Water							
Batch	R1476556							
WG1172095-2	CCV							
Conductivity			102		%		95-105	23-SEP-10
WG1172095-1	CVS							
Conductivity			100		%		90-110	23-SEP-10
WG1172095-7	DUP	L934921-1						



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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
EC-WP		Water						
Batch	R1476556							
WG1172095-7	DUP	L934921-1						
Conductivity		9140	9150		umhos/cm	0.059	10	23-SEP-10
WG1172095-8	DUP	L935000-2						
Conductivity		68.6	68.6		umhos/cm	0.0	10	23-SEP-10
Batch	R1486305							
WG1177964-2	CCV							
Conductivity			100		%		95-105	04-OCT-10
WG1177964-1	CVS							
Conductivity			100		%		90-110	04-OCT-10
WG1177964-3	DUP	L933241-1						
Conductivity		17.4	17.4		umhos/cm	0.12	10	04-OCT-10
HG-D-CVAF-WP		Water						
Batch	R1473107							
WG1170585-3	DUP	L930932-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170585-5	DUP	L932800-5						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170585-7	DUP	L933241-1						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170585-2	LCS							
Mercury (Hg)-Dissolved			97		%		63-138	20-SEP-10
Mercury (Hg)-Dissolved			97		%		63-138	20-SEP-10
WG1170584-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10
WG1170585-1	MB							
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	20-SEP-10
WG1170585-4	MS	L930932-1						
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10
WG1170585-6	MS	L932800-5						
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10
Mercury (Hg)-Dissolved			105		%		70-130	20-SEP-10



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Contact: Clifton Samoiloff

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAF-WP								
Water								
Batch	R1473107							
WG1170585-8 MS		L933241-1						
Mercury (Hg)-Dissolved			84		%		70-130	20-SEP-10
Mercury (Hg)-Dissolved			84		%		70-130	20-SEP-10
Batch	R1479137							
WG1174084-3 DUP		L933234-4						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
WG1174084-5 DUP		L933298-8						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
WG1174084-2 LCS								
Mercury (Hg)-Dissolved			91		%		80-120	24-SEP-10
Mercury (Hg)-Dissolved			91		%		80-120	24-SEP-10
WG1174083-1 MB								
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	24-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	24-SEP-10
WG1174084-1 MB								
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	24-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	24-SEP-10
WG1174084-4 MS		L933234-4						
Mercury (Hg)-Dissolved			97		%		70-130	24-SEP-10
Mercury (Hg)-Dissolved			97		%		70-130	24-SEP-10
WG1174084-6 MS		L933298-8						
Mercury (Hg)-Dissolved			93		%		70-130	24-SEP-10
Mercury (Hg)-Dissolved			93		%		70-130	24-SEP-10
HG-T-CVAF-WP								
Water								
Batch	R1473170							
WG1170630-3 DUP		L932770-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170630-5 DUP		L933234-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170630-7 DUP		L933298-4						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10



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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	R1473170							
WG1170630-2	LCS							
Mercury (Hg)-Total			105		%		63-138	20-SEP-10
Mercury (Hg)-Total			105		%		63-138	20-SEP-10
WG1170630-1	MB							
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	20-SEP-10
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	20-SEP-10
WG1170630-4	MS	L932770-2						
Mercury (Hg)-Total			107		%		70-130	20-SEP-10
Mercury (Hg)-Total			107		%		70-130	20-SEP-10
WG1170630-6	MS	L933234-1						
Mercury (Hg)-Total			100		%		70-130	20-SEP-10
Mercury (Hg)-Total			100		%		70-130	20-SEP-10
WG1170630-8	MS	L933298-4						
Mercury (Hg)-Total			103		%		70-130	20-SEP-10
Mercury (Hg)-Total			103		%		70-130	20-SEP-10
MET-D-L-MS-WP								
	Water							
Batch	R1472607							
WG1170384-3	CCV							
Aluminum (Al)-Dissolved			95		%		90-110	20-SEP-10
Antimony (Sb)-Dissolved			95		%		90-110	20-SEP-10
Arsenic (As)-Dissolved			99		%		90-110	20-SEP-10
Barium (Ba)-Dissolved			96		%		90-110	20-SEP-10
Beryllium (Be)-Dissolved			98		%		90-110	20-SEP-10
Bismuth (Bi)-Dissolved			100		%		90-110	20-SEP-10
Boron (B)-Dissolved			105		%		90-110	20-SEP-10
Cadmium (Cd)-Dissolved			99		%		90-110	20-SEP-10
Calcium (Ca)-Dissolved			98		%		90-110	20-SEP-10
Cesium (Cs)-Dissolved			92		%		90-110	20-SEP-10
Chromium (Cr)-Dissolved			95		%		90-110	20-SEP-10
Cobalt (Co)-Dissolved			98		%		90-110	20-SEP-10
Copper (Cu)-Dissolved			100		%		90-110	20-SEP-10
Iron (Fe)-Dissolved			101		%		90-110	20-SEP-10
Lead (Pb)-Dissolved			96		%		90-110	20-SEP-10
Lithium (Li)-Dissolved			98		%		90-110	20-SEP-10
Magnesium (Mg)-Dissolved			99		%		90-110	20-SEP-10



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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	R1472607							
WG1170384-3	CCV							
Manganese (Mn)-Dissolved			98		%		90-110	20-SEP-10
Molybdenum (Mo)-Dissolved			102		%		90-110	20-SEP-10
Nickel (Ni)-Dissolved			99		%		90-110	20-SEP-10
Phosphorus (P)-Dissolved			98		%		90-110	20-SEP-10
Potassium (K)-Dissolved			94		%		90-110	20-SEP-10
Rubidium (Rb)-Dissolved			96		%		90-110	20-SEP-10
Selenium (Se)-Dissolved			99		%		90-110	20-SEP-10
Silicon (Si)-Dissolved			97		%		90-110	20-SEP-10
Silver (Ag)-Dissolved			102		%		90-110	20-SEP-10
Sodium (Na)-Dissolved			98		%		90-110	20-SEP-10
Strontium (Sr)-Dissolved			97		%		90-110	20-SEP-10
Tellurium (Te)-Dissolved			99		%		90-110	20-SEP-10
Thallium (Tl)-Dissolved			95		%		90-110	20-SEP-10
Thorium (Th)-Dissolved			96		%		63-138	20-SEP-10
Tin (Sn)-Dissolved			101		%		90-110	20-SEP-10
Titanium (Ti)-Dissolved			100		%		90-110	20-SEP-10
Tungsten (W)-Dissolved			97		%		90-110	20-SEP-10
Uranium (U)-Dissolved			94		%		90-110	20-SEP-10
Vanadium (V)-Dissolved			96		%		90-110	20-SEP-10
Zinc (Zn)-Dissolved			99		%		90-110	20-SEP-10
Zirconium (Zr)-Dissolved			97		%		90-110	20-SEP-10
WG1170384-1	CVS							
Aluminum (Al)-Dissolved			97		%		80-120	20-SEP-10
Antimony (Sb)-Dissolved			97		%		80-120	20-SEP-10
Arsenic (As)-Dissolved			102		%		80-120	20-SEP-10
Barium (Ba)-Dissolved			102		%		80-120	20-SEP-10
Beryllium (Be)-Dissolved			104		%		80-120	20-SEP-10
Bismuth (Bi)-Dissolved			103		%		80-120	20-SEP-10
Boron (B)-Dissolved			102		%		80-120	20-SEP-10
Cadmium (Cd)-Dissolved			97		%		80-120	20-SEP-10
Calcium (Ca)-Dissolved			104		%		80-120	20-SEP-10
Cesium (Cs)-Dissolved			97		%		80-120	20-SEP-10
Chromium (Cr)-Dissolved			99		%		80-120	20-SEP-10
Cobalt (Co)-Dissolved			103		%		80-120	20-SEP-10



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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	R1472607							
WG1170384-1	CVS							
Copper (Cu)-Dissolved			101		%		80-120	20-SEP-10
Iron (Fe)-Dissolved			104		%		80-120	20-SEP-10
Lead (Pb)-Dissolved			100		%		80-120	20-SEP-10
Lithium (Li)-Dissolved			101		%		80-120	20-SEP-10
Magnesium (Mg)-Dissolved			103		%		80-120	20-SEP-10
Manganese (Mn)-Dissolved			101		%		80-120	20-SEP-10
Molybdenum (Mo)-Dissolved			96		%		80-120	20-SEP-10
Nickel (Ni)-Dissolved			103		%		80-120	20-SEP-10
Phosphorus (P)-Dissolved			101		%		80-120	20-SEP-10
Potassium (K)-Dissolved			102		%		80-120	20-SEP-10
Rubidium (Rb)-Dissolved			94		%		80-120	20-SEP-10
Selenium (Se)-Dissolved			101		%		80-120	20-SEP-10
Silicon (Si)-Dissolved			95		%		63-138	20-SEP-10
Silver (Ag)-Dissolved			95		%		63-138	20-SEP-10
Sodium (Na)-Dissolved			101		%		80-120	20-SEP-10
Strontium (Sr)-Dissolved			95		%		80-120	20-SEP-10
Tellurium (Te)-Dissolved			99		%		80-120	20-SEP-10
Thallium (Tl)-Dissolved			98		%		80-120	20-SEP-10
Thorium (Th)-Dissolved			99		%		63-138	20-SEP-10
Tin (Sn)-Dissolved			97		%		80-120	20-SEP-10
Titanium (Ti)-Dissolved			97		%		80-120	20-SEP-10
Tungsten (W)-Dissolved			99		%		80-120	20-SEP-10
Uranium (U)-Dissolved			96		%		80-120	20-SEP-10
Vanadium (V)-Dissolved			99		%		80-120	20-SEP-10
Zinc (Zn)-Dissolved			102		%		80-120	20-SEP-10
Zirconium (Zr)-Dissolved			91		%		80-120	20-SEP-10
WG1170384-2	CVS							
Aluminum (Al)-Dissolved			101		%		80-120	20-SEP-10
Antimony (Sb)-Dissolved			99		%		80-120	20-SEP-10
Arsenic (As)-Dissolved			99		%		80-120	20-SEP-10
Barium (Ba)-Dissolved			100		%		80-120	20-SEP-10
Beryllium (Be)-Dissolved			103		%		80-120	20-SEP-10
Bismuth (Bi)-Dissolved			106		%		80-120	20-SEP-10
Boron (B)-Dissolved			108		%		80-120	20-SEP-10



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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	R1472607							
WG1170384-2	CVS							
Cadmium (Cd)-Dissolved			101		%		80-120	20-SEP-10
Calcium (Ca)-Dissolved			98		%		80-120	20-SEP-10
Cesium (Cs)-Dissolved			100		%		80-120	20-SEP-10
Chromium (Cr)-Dissolved			99		%		80-120	20-SEP-10
Cobalt (Co)-Dissolved			103		%		80-120	20-SEP-10
Copper (Cu)-Dissolved			97		%		80-120	20-SEP-10
Iron (Fe)-Dissolved			106		%		80-120	20-SEP-10
Lead (Pb)-Dissolved			99		%		80-120	20-SEP-10
Lithium (Li)-Dissolved			100		%		80-120	20-SEP-10
Magnesium (Mg)-Dissolved			97		%		80-120	20-SEP-10
Manganese (Mn)-Dissolved			103		%		80-120	20-SEP-10
Molybdenum (Mo)-Dissolved			101		%		80-120	20-SEP-10
Nickel (Ni)-Dissolved			98		%		80-120	20-SEP-10
Phosphorus (P)-Dissolved			97		%		80-120	20-SEP-10
Potassium (K)-Dissolved			97		%		80-120	20-SEP-10
Rubidium (Rb)-Dissolved			102		%		80-120	20-SEP-10
Selenium (Se)-Dissolved			98		%		80-120	20-SEP-10
Silicon (Si)-Dissolved			97		%		63-138	20-SEP-10
Silver (Ag)-Dissolved			102		%		63-138	20-SEP-10
Sodium (Na)-Dissolved			95		%		80-120	20-SEP-10
Strontium (Sr)-Dissolved			102		%		80-120	20-SEP-10
Tellurium (Te)-Dissolved			98		%		80-120	20-SEP-10
Thallium (Tl)-Dissolved			102		%		80-120	20-SEP-10
Thorium (Th)-Dissolved			101		%		63-138	20-SEP-10
Tin (Sn)-Dissolved			101		%		80-120	20-SEP-10
Titanium (Ti)-Dissolved			93		%		80-120	20-SEP-10
Tungsten (W)-Dissolved			101		%		80-120	20-SEP-10
Uranium (U)-Dissolved			102		%		80-120	20-SEP-10
Vanadium (V)-Dissolved			101		%		80-120	20-SEP-10
Zinc (Zn)-Dissolved			98		%		80-120	20-SEP-10
Zirconium (Zr)-Dissolved			101		%		80-120	20-SEP-10
WG1170345-4	DUP	WG1170345-3						
Aluminum (Al)-Dissolved		0.0028	0.0026	J	mg/L	0.0002	0.008	21-SEP-10
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10



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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	R1472607							
WG1170345-4	DUP	WG1170345-3						
Arsenic (As)-Dissolved		0.00099	0.00100	J	mg/L	0.00002	0.0008	21-SEP-10
Barium (Ba)-Dissolved		0.357	0.356		mg/L	0.26	20	21-SEP-10
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Boron (B)-Dissolved		0.605	0.587		mg/L	3.1	20	21-SEP-10
Cadmium (Cd)-Dissolved		0.000079	0.000077	J	mg/L	0.000002	0.00004	21-SEP-10
Calcium (Ca)-Dissolved		144	145		mg/L	0.69	20	21-SEP-10
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Chromium (Cr)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Cobalt (Co)-Dissolved		0.00023	0.00023	J	mg/L	0.00001	0.0008	21-SEP-10
Copper (Cu)-Dissolved		0.00232	0.00242		mg/L	4.1	20	21-SEP-10
Iron (Fe)-Dissolved		0.069	0.068	J	mg/L	0.001	0.04	21-SEP-10
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	21-SEP-10
Lithium (Li)-Dissolved		0.0769	0.0744		mg/L	3.3	20	21-SEP-10
Magnesium (Mg)-Dissolved		131	130		mg/L	0.77	20	21-SEP-10
Manganese (Mn)-Dissolved		0.0573	0.0574		mg/L	0.17	20	21-SEP-10
Molybdenum (Mo)-Dissolved		0.00096	0.00097	J	mg/L	0.00001	0.0004	21-SEP-10
Nickel (Ni)-Dissolved		0.00469	0.00490		mg/L	4.5	20	21-SEP-10
Phosphorus (P)-Dissolved		0.11	0.11	J	mg/L	0.00	0.4	21-SEP-10
Potassium (K)-Dissolved		1.93	1.91		mg/L	1.2	20	21-SEP-10
Rubidium (Rb)-Dissolved		0.00128	0.00124	J	mg/L	0.00004	0.0008	21-SEP-10
Selenium (Se)-Dissolved		0.0044	0.0043	J	mg/L	0.0002	0.004	21-SEP-10
Silicon (Si)-Dissolved		13.2	13.0		mg/L	1.5	20	21-SEP-10
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Sodium (Na)-Dissolved		14.7	15.2		mg/L	3.3	20	21-SEP-10
Strontium (Sr)-Dissolved		0.945	0.957		mg/L	1.2	20	21-SEP-10
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	21-SEP-10
Tin (Sn)-Dissolved		0.00034	0.00034	J	mg/L	0.00001	0.0008	21-SEP-10
Titanium (Ti)-Dissolved		0.00062	0.00051	J	mg/L	0.00011	0.0008	21-SEP-10
Tungsten (W)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Uranium (U)-Dissolved		0.0101	0.00991		mg/L			21-SEP-10



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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	R1472607							
WG1170345-4	DUP	WG1170345-3						
Uranium (U)-Dissolved		0.0101	0.00991		mg/L	2.0	20	21-SEP-10
Vanadium (V)-Dissolved		0.00847	0.00842		mg/L	0.58	20	21-SEP-10
Zinc (Zn)-Dissolved		0.0044	0.0043	J	mg/L	0.0000	0.008	21-SEP-10
Zirconium (Zr)-Dissolved		0.00045	0.00045	J	mg/L	0.00000	0.0016	21-SEP-10
WG1170345-2	LCS							
Aluminum (Al)-Dissolved			108		%		80-120	21-SEP-10
Antimony (Sb)-Dissolved			111		%		80-120	21-SEP-10
Arsenic (As)-Dissolved			109		%		80-120	21-SEP-10
Barium (Ba)-Dissolved			109		%		80-120	21-SEP-10
Beryllium (Be)-Dissolved			116		%		80-120	21-SEP-10
Bismuth (Bi)-Dissolved			104		%		80-120	21-SEP-10
Boron (B)-Dissolved			111		%		80-120	21-SEP-10
Cadmium (Cd)-Dissolved			104		%		80-120	21-SEP-10
Calcium (Ca)-Dissolved			108		%		80-120	21-SEP-10
Cesium (Cs)-Dissolved			108		%		80-120	21-SEP-10
Chromium (Cr)-Dissolved			115		%		80-120	21-SEP-10
Cobalt (Co)-Dissolved			115		%		80-120	21-SEP-10
Copper (Cu)-Dissolved			109		%		80-120	21-SEP-10
Iron (Fe)-Dissolved			116		%		80-120	21-SEP-10
Lead (Pb)-Dissolved			106		%		80-120	21-SEP-10
Lithium (Li)-Dissolved			111		%		80-120	21-SEP-10
Magnesium (Mg)-Dissolved			109		%		80-120	21-SEP-10
Manganese (Mn)-Dissolved			105		%		80-120	21-SEP-10
Molybdenum (Mo)-Dissolved			109		%		80-120	21-SEP-10
Nickel (Ni)-Dissolved			105		%		80-120	21-SEP-10
Phosphorus (P)-Dissolved			111		%		80-120	21-SEP-10
Potassium (K)-Dissolved			109		%		80-120	21-SEP-10
Rubidium (Rb)-Dissolved			113		%		80-120	21-SEP-10
Selenium (Se)-Dissolved			107		%		80-120	21-SEP-10
Silicon (Si)-Dissolved			113		%		80-120	21-SEP-10
Silver (Ag)-Dissolved			104		%		80-120	21-SEP-10
Sodium (Na)-Dissolved			113		%		80-120	21-SEP-10
Strontium (Sr)-Dissolved			104		%		80-120	21-SEP-10
Tellurium (Te)-Dissolved			115				80-120	



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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	R1472607							
WG1170345-2 LCS								
Tellurium (Te)-Dissolved			115		%		80-120	21-SEP-10
Thallium (Tl)-Dissolved			105		%		80-120	21-SEP-10
Thorium (Th)-Dissolved			106		%		80-120	21-SEP-10
Tin (Sn)-Dissolved			108		%		80-120	21-SEP-10
Titanium (Ti)-Dissolved			109		%		80-120	21-SEP-10
Tungsten (W)-Dissolved			107		%		80-120	21-SEP-10
Uranium (U)-Dissolved			103		%		80-120	21-SEP-10
Vanadium (V)-Dissolved			111		%		80-120	21-SEP-10
Zinc (Zn)-Dissolved			109		%		80-120	21-SEP-10
Zirconium (Zr)-Dissolved			106		%		80-120	21-SEP-10
WG1170345-1 MB								
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.002	20-SEP-10
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Arsenic (As)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Boron (B)-Dissolved			<0.010		mg/L		0.01	20-SEP-10
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	20-SEP-10
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	20-SEP-10
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0001	20-SEP-10
Chromium (Cr)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	20-SEP-10
Lead (Pb)-Dissolved			<0.000090		mg/L		0.00009	20-SEP-10
Lithium (Li)-Dissolved			<0.0020		mg/L		0.002	20-SEP-10
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.01	20-SEP-10
Manganese (Mn)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0001	20-SEP-10
Nickel (Ni)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Phosphorus (P)-Dissolved			<0.10		mg/L		0.1	20-SEP-10
Potassium (K)-Dissolved			<0.020		mg/L		0.02	20-SEP-10
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10



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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	R1472607							
WG1170345-1	MB							
Selenium (Se)-Dissolved			<0.0010		mg/L		0.001	20-SEP-10
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	20-SEP-10
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	20-SEP-10
Sodium (Na)-Dissolved			<0.020		mg/L		0.02	20-SEP-10
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	20-SEP-10
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Thallium (Tl)-Dissolved			<0.00010		mg/L		0.0001	20-SEP-10
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	20-SEP-10
Tin (Sn)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Titanium (Ti)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Tungsten (W)-Dissolved			<0.0010		mg/L		0.001	20-SEP-10
Uranium (U)-Dissolved			<0.00010		mg/L		0.0001	20-SEP-10
Vanadium (V)-Dissolved			<0.00020		mg/L		0.0002	20-SEP-10
Zinc (Zn)-Dissolved			<0.0020		mg/L		0.002	20-SEP-10
Zirconium (Zr)-Dissolved			<0.00040		mg/L		0.0004	20-SEP-10
MET-T-L-MS-WP		Water						
Batch	R1474144							
WG1171265-3	CCV							
Aluminum (Al)-Total			94		%		90-110	21-SEP-10
Antimony (Sb)-Total			100		%		90-110	21-SEP-10
Arsenic (As)-Total			98		%		90-110	21-SEP-10
Barium (Ba)-Total			100		%		90-110	21-SEP-10
Beryllium (Be)-Total			95		%		90-110	21-SEP-10
Bismuth (Bi)-Total			100		%		90-110	21-SEP-10
Boron (B)-Total			96		%		90-110	21-SEP-10
Cadmium (Cd)-Total			97		%		90-110	21-SEP-10
Calcium (Ca)-Total			98		%		90-110	21-SEP-10
Cesium (Cs)-Total			99		%		90-110	21-SEP-10
Chromium (Cr)-Total			99		%		90-110	21-SEP-10
Cobalt (Co)-Total			101		%		90-110	21-SEP-10
Copper (Cu)-Total			99		%		90-110	21-SEP-10
Iron (Fe)-Total			100		%		90-110	21-SEP-10
Lead (Pb)-Total			100		%		90-110	21-SEP-10
Lithium (Li)-Total			100		%		90-110	21-SEP-10



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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	R1474144							
WG1171265-3	CCV							
Lithium (Li)-Total			100		%		90-110	21-SEP-10
Magnesium (Mg)-Total			96		%		90-110	21-SEP-10
Manganese (Mn)-Total			98		%		90-110	21-SEP-10
Molybdenum (Mo)-Total			98		%		90-110	21-SEP-10
Nickel (Ni)-Total			100		%		90-110	21-SEP-10
Phosphorus (P)-Total			99		%		90-110	21-SEP-10
Potassium (K)-Total			98		%		90-110	21-SEP-10
Rubidium (Rb)-Total			98		%		90-110	21-SEP-10
Selenium (Se)-Total			97		%		90-110	21-SEP-10
Silicon (Si)-Total			99		%		90-110	21-SEP-10
Silver (Ag)-Total			97		%		90-110	21-SEP-10
Tellurium (Te)-Total			97		%		90-110	21-SEP-10
Thallium (Tl)-Total			100		%		90-110	21-SEP-10
Thorium (Th)-Total			95		%		63-138	21-SEP-10
Tin (Sn)-Total			100		%		90-110	21-SEP-10
Titanium (Ti)-Total			99		%		90-110	21-SEP-10
Tungsten (W)-Total			98		%		90-110	21-SEP-10
Uranium (U)-Total			95		%		90-110	21-SEP-10
Vanadium (V)-Total			100		%		90-110	21-SEP-10
Zinc (Zn)-Total			98		%		90-110	21-SEP-10
Zirconium (Zr)-Total			97		%		90-110	21-SEP-10
WG1171265-1	CVS							
Aluminum (Al)-Total			92		%		63-138	21-SEP-10
Antimony (Sb)-Total			98		%		63-138	21-SEP-10
Arsenic (As)-Total			97		%		63-138	21-SEP-10
Barium (Ba)-Total			101		%		63-138	21-SEP-10
Beryllium (Be)-Total			97		%		63-138	21-SEP-10
Bismuth (Bi)-Total			101		%		63-138	21-SEP-10
Boron (B)-Total			98		%		63-138	21-SEP-10
Cadmium (Cd)-Total			97		%		63-138	21-SEP-10
Calcium (Ca)-Total			100		%		63-138	21-SEP-10
Cesium (Cs)-Total			100		%		63-138	21-SEP-10
Chromium (Cr)-Total			99		%		63-138	21-SEP-10
Cobalt (Co)-Total			101		%		63-138	21-SEP-10



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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	R1474144							
WG1171265-1	CVS							
Copper (Cu)-Total			99		%		63-138	21-SEP-10
Iron (Fe)-Total			98		%		63-138	21-SEP-10
Lead (Pb)-Total			100		%		63-138	21-SEP-10
Lithium (Li)-Total			100		%		63-138	21-SEP-10
Magnesium (Mg)-Total			96		%		63-138	21-SEP-10
Manganese (Mn)-Total			99		%		63-138	21-SEP-10
Molybdenum (Mo)-Total			96		%		63-138	21-SEP-10
Nickel (Ni)-Total			100		%		63-138	21-SEP-10
Phosphorus (P)-Total			95		%		63-138	21-SEP-10
Potassium (K)-Total			99		%		63-138	21-SEP-10
Rubidium (Rb)-Total			97		%		63-138	21-SEP-10
Selenium (Se)-Total			97		%		63-138	21-SEP-10
Silicon (Si)-Total			96		%		63-138	21-SEP-10
Silver (Ag)-Total			95		%		63-138	21-SEP-10
Tellurium (Te)-Total			95		%		63-138	21-SEP-10
Thallium (Tl)-Total			100		%		63-138	21-SEP-10
Thorium (Th)-Total			95		%		63-138	21-SEP-10
Tin (Sn)-Total			97		%		63-138	21-SEP-10
Titanium (Ti)-Total			96		%		63-138	21-SEP-10
Tungsten (W)-Total			98		%		63-138	21-SEP-10
Uranium (U)-Total			94		%		63-138	21-SEP-10
Vanadium (V)-Total			99		%		63-138	21-SEP-10
Zinc (Zn)-Total			99		%		63-138	21-SEP-10
Zirconium (Zr)-Total			94		%		63-138	21-SEP-10
WG1171265-2	CVS							
Aluminum (Al)-Total			102		%		63-138	21-SEP-10
Antimony (Sb)-Total			98		%		63-138	21-SEP-10
Arsenic (As)-Total			101		%		63-138	21-SEP-10
Barium (Ba)-Total			99		%		63-138	21-SEP-10
Beryllium (Be)-Total			100		%		63-138	21-SEP-10
Bismuth (Bi)-Total			103		%		63-138	21-SEP-10
Boron (B)-Total			100		%		63-138	21-SEP-10
Cadmium (Cd)-Total			100		%		63-138	21-SEP-10
Calcium (Ca)-Total			105		%		63-138	21-SEP-10



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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	R1474144							
WG1171265-2	CVS							
Cesium (Cs)-Total			100		%		63-138	21-SEP-10
Chromium (Cr)-Total			101		%		63-138	21-SEP-10
Cobalt (Co)-Total			99		%		63-138	21-SEP-10
Copper (Cu)-Total			100		%		63-138	21-SEP-10
Iron (Fe)-Total			103		%		63-138	21-SEP-10
Lead (Pb)-Total			101		%		63-138	21-SEP-10
Lithium (Li)-Total			101		%		63-138	21-SEP-10
Magnesium (Mg)-Total			100		%		63-138	21-SEP-10
Manganese (Mn)-Total			102		%		63-138	21-SEP-10
Molybdenum (Mo)-Total			101		%		63-138	21-SEP-10
Nickel (Ni)-Total			100		%		63-138	21-SEP-10
Phosphorus (P)-Total			101		%		63-138	21-SEP-10
Potassium (K)-Total			101		%		63-138	21-SEP-10
Rubidium (Rb)-Total			101		%		63-138	21-SEP-10
Selenium (Se)-Total			102		%		63-138	21-SEP-10
Silicon (Si)-Total			104		%		63-138	21-SEP-10
Silver (Ag)-Total			98		%		63-138	21-SEP-10
Tellurium (Te)-Total			99		%		63-138	21-SEP-10
Thallium (Tl)-Total			99		%		63-138	21-SEP-10
Thorium (Th)-Total			102		%		63-138	21-SEP-10
Tin (Sn)-Total			99		%		63-138	21-SEP-10
Titanium (Ti)-Total			100		%		63-138	21-SEP-10
Tungsten (W)-Total			98		%		63-138	21-SEP-10
Uranium (U)-Total			101		%		63-138	21-SEP-10
Vanadium (V)-Total			101		%		63-138	21-SEP-10
Zinc (Zn)-Total			101		%		63-138	21-SEP-10
Zirconium (Zr)-Total			101		%		63-138	21-SEP-10
WG1170515-4	DUP		WG1170515-3					
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	21-SEP-10
Antimony (Sb)-Total		0.00609	0.00607		mg/L	0.28	20	21-SEP-10
Arsenic (As)-Total		0.0295	0.0294		mg/L	0.41	20	21-SEP-10
Barium (Ba)-Total		0.0311	0.0315		mg/L	1.1	20	21-SEP-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10



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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	R1474144							
WG1170515-4	DUP	WG1170515-3						
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Boron (B)-Total		0.044	0.042	J	mg/L	0.002	0.04	21-SEP-10
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	21-SEP-10
Calcium (Ca)-Total		68.3	66.8		mg/L	2.1	20	21-SEP-10
Cesium (Cs)-Total		0.00029	0.00028	J	mg/L	0.00000	0.0004	21-SEP-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Cobalt (Co)-Total		0.00133	0.00132	J	mg/L	0.00001	0.0008	21-SEP-10
Copper (Cu)-Total		0.00379	0.00366		mg/L	3.7	20	21-SEP-10
Iron (Fe)-Total		0.634	0.619		mg/L	2.3	20	21-SEP-10
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	21-SEP-10
Lithium (Li)-Total		0.0268	0.0258		mg/L	3.7	20	21-SEP-10
Magnesium (Mg)-Total		29.4	28.9		mg/L	1.5	20	21-SEP-10
Manganese (Mn)-Total		0.137	0.135		mg/L	1.6	20	21-SEP-10
Molybdenum (Mo)-Total		0.00092	0.00092	J	mg/L	0.00000	0.0008	21-SEP-10
Nickel (Ni)-Total		0.0186	0.0180	J	mg/L	0.0006	0.008	21-SEP-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	21-SEP-10
Potassium (K)-Total		5.78	5.65		mg/L	2.4	20	21-SEP-10
Rubidium (Rb)-Total		0.00740	0.00722		mg/L	2.3	20	21-SEP-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Silicon (Si)-Total		3.19	3.21		mg/L	0.61	20	21-SEP-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	21-SEP-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Titanium (Ti)-Total		0.00120	0.00118	J	mg/L	0.00002	0.0008	21-SEP-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Uranium (U)-Total		0.00043	0.00011	J	mg/L	0.00032	0.0004	21-SEP-10
Vanadium (V)-Total		0.00059	0.00060	J	mg/L	0.00000	0.0008	21-SEP-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	21-SEP-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	21-SEP-10
WG1170515-6	DUP	WG1170515-5						
Aluminum (Al)-Total		1.18	1.24		mg/L	5.0	20	21-SEP-10



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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	R1474144							
WG1170515-6	DUP	WG1170515-5						
Antimony (Sb)-Total		0.00079	0.00068	J	mg/L	0.00011	0.0008	21-SEP-10
Arsenic (As)-Total		0.00110	0.00052	J	mg/L	0.00058	0.0008	21-SEP-10
Barium (Ba)-Total		0.0103	0.0101		mg/L	1.5	20	21-SEP-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	21-SEP-10
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	21-SEP-10
Calcium (Ca)-Total		25.8	25.6		mg/L	0.87	20	21-SEP-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Copper (Cu)-Total		0.00086	0.00082	J	mg/L	0.00005	0.0008	21-SEP-10
Iron (Fe)-Total		<0.020	<0.020	RPD-NA	mg/L	N/A	20	21-SEP-10
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	21-SEP-10
Lithium (Li)-Total		0.0024	0.0021	J	mg/L	0.0003	0.008	21-SEP-10
Magnesium (Mg)-Total		5.29	5.55		mg/L	4.8	20	21-SEP-10
Manganese (Mn)-Total		0.00477	0.00456		mg/L	4.7	20	21-SEP-10
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	21-SEP-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	21-SEP-10
Potassium (K)-Total		1.10	1.10		mg/L	0.40	20	21-SEP-10
Rubidium (Rb)-Total		0.00084	0.00082	J	mg/L	0.00002	0.0008	21-SEP-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Silicon (Si)-Total		1.58	1.49		mg/L	5.5	20	21-SEP-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	21-SEP-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Titanium (Ti)-Total		0.00111	0.00228	J,G	mg/L	0.00118	0.0008	21-SEP-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Vanadium (V)-Total		0.00105	0.00094		mg/L			21-SEP-10



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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	R1474144							
WG1170515-6	DUP	WG1170515-5						
Vanadium (V)-Total		0.00105	0.00094	J	mg/L	0.00011	0.0008	21-SEP-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	21-SEP-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	21-SEP-10
WG1170515-2	LCS							
Aluminum (Al)-Total			99		%		80-120	21-SEP-10
Antimony (Sb)-Total			99		%		80-120	21-SEP-10
Arsenic (As)-Total			104		%		80-120	21-SEP-10
Barium (Ba)-Total			108		%		80-120	21-SEP-10
Beryllium (Be)-Total			98		%		80-120	21-SEP-10
Bismuth (Bi)-Total			103		%		80-120	21-SEP-10
Boron (B)-Total			102		%		80-120	21-SEP-10
Cadmium (Cd)-Total			105		%		80-120	21-SEP-10
Calcium (Ca)-Total			103		%		80-120	21-SEP-10
Cesium (Cs)-Total			109		%		80-120	21-SEP-10
Chromium (Cr)-Total			105		%		80-120	21-SEP-10
Cobalt (Co)-Total			109		%		80-120	21-SEP-10
Copper (Cu)-Total			105		%		80-120	21-SEP-10
Iron (Fe)-Total			106		%		80-120	21-SEP-10
Lead (Pb)-Total			99		%		80-120	21-SEP-10
Lithium (Li)-Total			103		%		80-120	21-SEP-10
Magnesium (Mg)-Total			102		%		80-120	21-SEP-10
Manganese (Mn)-Total			105		%		80-120	21-SEP-10
Molybdenum (Mo)-Total			107		%		80-120	21-SEP-10
Nickel (Ni)-Total			106		%		80-120	21-SEP-10
Phosphorus (P)-Total			106		%		80-120	21-SEP-10
Potassium (K)-Total			102		%		80-120	21-SEP-10
Rubidium (Rb)-Total			109		%		80-120	21-SEP-10
Selenium (Se)-Total			104		%		80-120	21-SEP-10
Silicon (Si)-Total			107		%		80-120	21-SEP-10
Silver (Ag)-Total			105		%		80-120	21-SEP-10
Tellurium (Te)-Total			105		%		80-120	21-SEP-10
Thallium (Tl)-Total			100		%		80-120	21-SEP-10
Thorium (Th)-Total			98		%		63-138	21-SEP-10
Tin (Sn)-Total			102				80-120	



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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	R1474144							
WG1170515-2	LCS							
Tin (Sn)-Total			102		%		80-120	21-SEP-10
Titanium (Ti)-Total			102		%		80-120	21-SEP-10
Tungsten (W)-Total			103		%		80-120	21-SEP-10
Uranium (U)-Total			105		%		80-120	21-SEP-10
Vanadium (V)-Total			107		%		80-120	21-SEP-10
Zinc (Zn)-Total			106		%		80-120	21-SEP-10
Zirconium (Zr)-Total			105		%		80-120	21-SEP-10
WG1170515-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.005	21-SEP-10
Antimony (Sb)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Arsenic (As)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Barium (Ba)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Beryllium (Be)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Bismuth (Bi)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Boron (B)-Total			<0.010		mg/L		0.01	21-SEP-10
Cadmium (Cd)-Total			<0.000010		mg/L		0.00001	21-SEP-10
Calcium (Ca)-Total			<0.10		mg/L		0.1	21-SEP-10
Cesium (Cs)-Total			<0.00010		mg/L		0.0001	21-SEP-10
Chromium (Cr)-Total			<0.0010		mg/L		0.001	21-SEP-10
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Copper (Cu)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Iron (Fe)-Total			<0.020		mg/L		0.02	21-SEP-10
Lead (Pb)-Total			<0.000090		mg/L		0.00009	21-SEP-10
Lithium (Li)-Total			<0.0020		mg/L		0.002	21-SEP-10
Magnesium (Mg)-Total			<0.010		mg/L		0.01	21-SEP-10
Manganese (Mn)-Total			<0.00030		mg/L		0.0003	21-SEP-10
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Nickel (Ni)-Total			<0.0020		mg/L		0.002	21-SEP-10
Phosphorus (P)-Total			<0.20		mg/L		0.2	21-SEP-10
Potassium (K)-Total			<0.020		mg/L		0.02	21-SEP-10
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Selenium (Se)-Total			<0.0010		mg/L		0.001	21-SEP-10
Silicon (Si)-Total			<0.050		mg/L		0.05	21-SEP-10
Silver (Ag)-Total			<0.00010		mg/L		0.0001	21-SEP-10



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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 R1474144								
WG1170515-1 MB								
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	21-SEP-10
Thorium (Th)-Total			<0.00010		mg/L		0.0001	21-SEP-10
Tin (Sn)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Titanium (Ti)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Tungsten (W)-Total			<0.0010		mg/L		0.001	21-SEP-10
Uranium (U)-Total			<0.00010		mg/L		0.0001	21-SEP-10
Vanadium (V)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Zinc (Zn)-Total			<0.0050		mg/L		0.005	21-SEP-10
Zirconium (Zr)-Total			<0.00040		mg/L		0.0004	21-SEP-10
Batch R1475365								
WG1171947-3 CCV								
Aluminum (Al)-Total			100		%		90-110	22-SEP-10
Antimony (Sb)-Total			103		%		90-110	22-SEP-10
Arsenic (As)-Total			102		%		90-110	22-SEP-10
Barium (Ba)-Total			105		%		90-110	22-SEP-10
Beryllium (Be)-Total			95		%		90-110	22-SEP-10
Bismuth (Bi)-Total			107		%		90-110	22-SEP-10
Boron (B)-Total			102		%		90-110	22-SEP-10
Cadmium (Cd)-Total			100		%		90-110	22-SEP-10
Calcium (Ca)-Total			103		%		90-110	22-SEP-10
Cesium (Cs)-Total			105		%		90-110	22-SEP-10
Chromium (Cr)-Total			103		%		90-110	22-SEP-10
Cobalt (Co)-Total			105		%		90-110	22-SEP-10
Copper (Cu)-Total			104		%		90-110	22-SEP-10
Iron (Fe)-Total			104		%		90-110	22-SEP-10
Lead (Pb)-Total			105		%		90-110	22-SEP-10
Lithium (Li)-Total			102		%		90-110	22-SEP-10
Magnesium (Mg)-Total			105		%		90-110	22-SEP-10
Manganese (Mn)-Total			101		%		90-110	22-SEP-10
Molybdenum (Mo)-Total			100		%		90-110	22-SEP-10
Nickel (Ni)-Total			102		%		90-110	22-SEP-10
Phosphorus (P)-Total			101		%		90-110	22-SEP-10
Potassium (K)-Total			103		%		90-110	22-SEP-10



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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	R1475365							
WG1171947-3	CCV							
Rubidium (Rb)-Total			102		%		90-110	22-SEP-10
Selenium (Se)-Total			102		%		90-110	22-SEP-10
Silicon (Si)-Total			100		%		90-110	22-SEP-10
Silver (Ag)-Total			101		%		90-110	22-SEP-10
Sodium (Na)-Total			104		%		90-110	22-SEP-10
Strontium (Sr)-Total			103		%		90-110	22-SEP-10
Tellurium (Te)-Total			99		%		90-110	22-SEP-10
Thallium (Tl)-Total			105		%		90-110	22-SEP-10
Thorium (Th)-Total			100		%		63-138	22-SEP-10
Tin (Sn)-Total			99		%		90-110	22-SEP-10
Titanium (Ti)-Total			102		%		90-110	22-SEP-10
Tungsten (W)-Total			101		%		90-110	22-SEP-10
Uranium (U)-Total			100		%		90-110	22-SEP-10
Vanadium (V)-Total			103		%		90-110	22-SEP-10
Zinc (Zn)-Total			100		%		90-110	22-SEP-10
Zirconium (Zr)-Total			100		%		90-110	22-SEP-10
WG1171947-1	CVS							
Aluminum (Al)-Total			96		%		63-138	22-SEP-10
Antimony (Sb)-Total			103		%		63-138	22-SEP-10
Arsenic (As)-Total			98		%		63-138	22-SEP-10
Barium (Ba)-Total			99		%		63-138	22-SEP-10
Beryllium (Be)-Total			90		%		63-138	22-SEP-10
Bismuth (Bi)-Total			102		%		63-138	22-SEP-10
Boron (B)-Total			97		%		63-138	22-SEP-10
Cadmium (Cd)-Total			95		%		63-138	22-SEP-10
Calcium (Ca)-Total			99		%		63-138	22-SEP-10
Cesium (Cs)-Total			99		%		63-138	22-SEP-10
Chromium (Cr)-Total			100		%		63-138	22-SEP-10
Cobalt (Co)-Total			101		%		63-138	22-SEP-10
Copper (Cu)-Total			101		%		63-138	22-SEP-10
Iron (Fe)-Total			100		%		63-138	22-SEP-10
Lead (Pb)-Total			99		%		63-138	22-SEP-10
Lithium (Li)-Total			98		%		63-138	22-SEP-10
Magnesium (Mg)-Total			99		%		63-138	22-SEP-10



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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	R1475365							
WG1171947-1	CVS							
Manganese (Mn)-Total			97		%		63-138	22-SEP-10
Molybdenum (Mo)-Total			101		%		63-138	22-SEP-10
Nickel (Ni)-Total			99		%		63-138	22-SEP-10
Phosphorus (P)-Total			98		%		63-138	22-SEP-10
Potassium (K)-Total			98		%		63-138	22-SEP-10
Rubidium (Rb)-Total			97		%		63-138	22-SEP-10
Selenium (Se)-Total			97		%		63-138	22-SEP-10
Silicon (Si)-Total			104		%		63-138	22-SEP-10
Silver (Ag)-Total			102		%		63-138	22-SEP-10
Sodium (Na)-Total			98		%		63-138	22-SEP-10
Strontium (Sr)-Total			97		%		63-138	22-SEP-10
Tellurium (Te)-Total			101		%		63-138	22-SEP-10
Thallium (Tl)-Total			97		%		63-138	22-SEP-10
Thorium (Th)-Total			94		%		63-138	22-SEP-10
Tin (Sn)-Total			100		%		63-138	22-SEP-10
Titanium (Ti)-Total			102		%		63-138	22-SEP-10
Tungsten (W)-Total			101		%		63-138	22-SEP-10
Uranium (U)-Total			95		%		63-138	22-SEP-10
Vanadium (V)-Total			99		%		63-138	22-SEP-10
Zinc (Zn)-Total			94		%		63-138	22-SEP-10
Zirconium (Zr)-Total			100		%		63-138	22-SEP-10
WG1171947-2	CVS							
Aluminum (Al)-Total			102		%		63-138	22-SEP-10
Antimony (Sb)-Total			95		%		63-138	22-SEP-10
Arsenic (As)-Total			101		%		63-138	22-SEP-10
Barium (Ba)-Total			98		%		63-138	22-SEP-10
Beryllium (Be)-Total			100		%		63-138	22-SEP-10
Bismuth (Bi)-Total			102		%		63-138	22-SEP-10
Boron (B)-Total			101		%		63-138	22-SEP-10
Cadmium (Cd)-Total			98		%		63-138	22-SEP-10
Calcium (Ca)-Total			103		%		63-138	22-SEP-10
Cesium (Cs)-Total			100		%		63-138	22-SEP-10
Chromium (Cr)-Total			100		%		63-138	22-SEP-10
Cobalt (Co)-Total			100		%		63-138	22-SEP-10



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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	R1475365							
WG1171947-2	CVS							
Copper (Cu)-Total			99		%		63-138	22-SEP-10
Iron (Fe)-Total			103		%		63-138	22-SEP-10
Lead (Pb)-Total			99		%		63-138	22-SEP-10
Lithium (Li)-Total			100		%		63-138	22-SEP-10
Magnesium (Mg)-Total			101		%		63-138	22-SEP-10
Manganese (Mn)-Total			100		%		63-138	22-SEP-10
Molybdenum (Mo)-Total			96		%		63-138	22-SEP-10
Nickel (Ni)-Total			98		%		63-138	22-SEP-10
Phosphorus (P)-Total			99		%		63-138	22-SEP-10
Potassium (K)-Total			101		%		63-138	22-SEP-10
Rubidium (Rb)-Total			99		%		63-138	22-SEP-10
Selenium (Se)-Total			104		%		63-138	22-SEP-10
Silicon (Si)-Total			102		%		63-138	22-SEP-10
Silver (Ag)-Total			95		%		63-138	22-SEP-10
Sodium (Na)-Total			101		%		63-138	22-SEP-10
Strontium (Sr)-Total			99		%		63-138	22-SEP-10
Tellurium (Te)-Total			97		%		63-138	22-SEP-10
Thallium (Tl)-Total			100		%		63-138	22-SEP-10
Thorium (Th)-Total			101		%		63-138	22-SEP-10
Tin (Sn)-Total			93		%		63-138	22-SEP-10
Titanium (Ti)-Total			99		%		63-138	22-SEP-10
Tungsten (W)-Total			97		%		63-138	22-SEP-10
Uranium (U)-Total			99		%		63-138	22-SEP-10
Vanadium (V)-Total			100		%		63-138	22-SEP-10
Zinc (Zn)-Total			102		%		63-138	22-SEP-10
Zirconium (Zr)-Total			96		%		63-138	22-SEP-10
WG1171192-4	DUP	WG1171192-3						
Aluminum (Al)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	22-SEP-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Arsenic (As)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Barium (Ba)-Total		0.00037	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10



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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	R1475365							
WG1171192-4	DUP	WG1171192-3						
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	22-SEP-10
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	22-SEP-10
Calcium (Ca)-Total		<0.10	<0.10	RPD-NA	mg/L	N/A	20	22-SEP-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	22-SEP-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	22-SEP-10
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Copper (Cu)-Total		0.00623	0.00642		mg/L	3.0	20	22-SEP-10
Iron (Fe)-Total		<0.020	<0.020	RPD-NA	mg/L	N/A	20	22-SEP-10
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	22-SEP-10
Lithium (Li)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	22-SEP-10
Magnesium (Mg)-Total		0.014	0.013	J	mg/L	0.001	0.04	22-SEP-10
Manganese (Mn)-Total		<0.00030	<0.00030	RPD-NA	mg/L	N/A	20	22-SEP-10
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	22-SEP-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	22-SEP-10
Potassium (K)-Total		0.041	0.039	J	mg/L	0.002	0.08	22-SEP-10
Rubidium (Rb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	22-SEP-10
Silicon (Si)-Total		0.099	0.094	J	mg/L	0.005	0.2	22-SEP-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	22-SEP-10
Sodium (Na)-Total		3.04	2.91		mg/L	4.3	20	22-SEP-10
Strontium (Sr)-Total		0.00013	0.00013	J	mg/L	0.00000	0.0004	22-SEP-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	22-SEP-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	22-SEP-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Titanium (Ti)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	22-SEP-10
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	22-SEP-10
Vanadium (V)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	22-SEP-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	22-SEP-10
WG1171192-6	DUP	WG1171192-5						



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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	R1475365							
WG1171192-6	DUP	WG1171192-5						
Aluminum (Al)-Total		0.0829	0.0958		mg/L	14	20	22-SEP-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Arsenic (As)-Total		0.00146	0.00155	J	mg/L	0.00009	0.0008	22-SEP-10
Barium (Ba)-Total		0.0611	0.0623		mg/L	2.0	20	22-SEP-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Boron (B)-Total		0.028	0.029	J	mg/L	0.001	0.04	22-SEP-10
Cadmium (Cd)-Total		0.000016	0.000017	J	mg/L	0.000001	0.00004	22-SEP-10
Calcium (Ca)-Total		75.7	76.3		mg/L	0.83	20	22-SEP-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	22-SEP-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	22-SEP-10
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Copper (Cu)-Total		0.00085	0.00093	J	mg/L	0.00008	0.0008	22-SEP-10
Iron (Fe)-Total		0.461	0.486		mg/L	5.3	20	22-SEP-10
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	22-SEP-10
Lithium (Li)-Total		0.0090	0.0092	J	mg/L	0.0002	0.008	22-SEP-10
Magnesium (Mg)-Total		23.2	23.5		mg/L	1.5	20	22-SEP-10
Manganese (Mn)-Total		0.146	0.152		mg/L	3.8	20	22-SEP-10
Molybdenum (Mo)-Total		0.00374	0.00388		mg/L	3.8	20	22-SEP-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	22-SEP-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	22-SEP-10
Potassium (K)-Total		1.61	1.68		mg/L	4.2	20	22-SEP-10
Rubidium (Rb)-Total		0.00125	0.00131	J	mg/L	0.00006	0.0008	22-SEP-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	22-SEP-10
Silicon (Si)-Total		5.68	5.75		mg/L	1.1	20	22-SEP-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	22-SEP-10
Sodium (Na)-Total		5.48	5.53		mg/L	0.88	20	22-SEP-10
Strontium (Sr)-Total		0.119	0.124		mg/L	3.4	20	22-SEP-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	22-SEP-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	22-SEP-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Titanium (Ti)-Total		0.00217	0.00284		mg/L			22-SEP-10



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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	R1475365							
WG1171192-6	DUP	WG1171192-5						
Titanium (Ti)-Total		0.00217	0.00284	G	mg/L	27	20	22-SEP-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	22-SEP-10
Uranium (U)-Total		0.00091	0.00091	J	mg/L	0.00000	0.0004	22-SEP-10
Vanadium (V)-Total		0.00079	0.00087	J	mg/L	0.00008	0.0008	22-SEP-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	22-SEP-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	22-SEP-10
WG1171192-2	LCS							
Aluminum (Al)-Total			108		%		80-120	22-SEP-10
Antimony (Sb)-Total			97		%		80-120	22-SEP-10
Arsenic (As)-Total			104		%		80-120	22-SEP-10
Barium (Ba)-Total			109		%		80-120	22-SEP-10
Beryllium (Be)-Total			99		%		80-120	22-SEP-10
Bismuth (Bi)-Total			101		%		80-120	22-SEP-10
Boron (B)-Total			103		%		80-120	22-SEP-10
Cadmium (Cd)-Total			101		%		80-120	22-SEP-10
Calcium (Ca)-Total			105		%		80-120	22-SEP-10
Cesium (Cs)-Total			111		%		80-120	22-SEP-10
Chromium (Cr)-Total			107		%		80-120	22-SEP-10
Cobalt (Co)-Total			111		%		80-120	22-SEP-10
Copper (Cu)-Total			106		%		80-120	22-SEP-10
Iron (Fe)-Total			110		%		80-120	22-SEP-10
Lead (Pb)-Total			99		%		80-120	22-SEP-10
Lithium (Li)-Total			101		%		80-120	22-SEP-10
Magnesium (Mg)-Total			106		%		80-120	22-SEP-10
Manganese (Mn)-Total			105		%		80-120	22-SEP-10
Molybdenum (Mo)-Total			101		%		80-120	22-SEP-10
Nickel (Ni)-Total			106		%		80-120	22-SEP-10
Phosphorus (P)-Total			110		%		80-120	22-SEP-10
Potassium (K)-Total			105		%		80-120	22-SEP-10
Rubidium (Rb)-Total			107		%		80-120	22-SEP-10
Selenium (Se)-Total			105		%		80-120	22-SEP-10
Silicon (Si)-Total			101		%		80-120	22-SEP-10
Silver (Ag)-Total			102		%		80-120	22-SEP-10



Quality Control Report

Workorder: L933241

Report Date: 24-NOV-10

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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	R1475365							
WG1171192-2	LCS							
Sodium (Na)-Total			108		%		80-120	22-SEP-10
Strontium (Sr)-Total			103		%		80-120	22-SEP-10
Tellurium (Te)-Total			106		%		80-120	22-SEP-10
Thallium (Tl)-Total			98		%		80-120	22-SEP-10
Thorium (Th)-Total			100		%		63-138	22-SEP-10
Tin (Sn)-Total			97		%		80-120	22-SEP-10
Titanium (Ti)-Total			105		%		80-120	22-SEP-10
Tungsten (W)-Total			101		%		80-120	22-SEP-10
Uranium (U)-Total			105		%		80-120	22-SEP-10
Vanadium (V)-Total			108		%		80-120	22-SEP-10
Zinc (Zn)-Total			104		%		80-120	22-SEP-10
Zirconium (Zr)-Total			100		%		80-120	22-SEP-10
WG1171192-1	MB							
Aluminum (Al)-Total			<0.0050		mg/L		0.005	22-SEP-10
Antimony (Sb)-Total			<0.00020		mg/L		0.0002	22-SEP-10
Arsenic (As)-Total			<0.00020		mg/L		0.0002	22-SEP-10
Barium (Ba)-Total			<0.00020		mg/L		0.0002	22-SEP-10
Beryllium (Be)-Total			<0.00020		mg/L		0.0002	22-SEP-10
Bismuth (Bi)-Total			<0.00020		mg/L		0.0002	22-SEP-10
Boron (B)-Total			<0.010		mg/L		0.01	22-SEP-10
Cadmium (Cd)-Total			<0.000010		mg/L		0.00001	22-SEP-10
Calcium (Ca)-Total			<0.10		mg/L		0.1	22-SEP-10
Cesium (Cs)-Total			<0.00010		mg/L		0.0001	22-SEP-10
Chromium (Cr)-Total			<0.0010		mg/L		0.001	22-SEP-10
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	22-SEP-10
Copper (Cu)-Total			<0.00020		mg/L		0.0002	22-SEP-10
Iron (Fe)-Total			<0.020		mg/L		0.02	22-SEP-10
Lead (Pb)-Total			<0.000090		mg/L		0.00009	22-SEP-10
Lithium (Li)-Total			<0.0020		mg/L		0.002	22-SEP-10
Magnesium (Mg)-Total			<0.010		mg/L		0.01	22-SEP-10
Manganese (Mn)-Total			<0.00030		mg/L		0.0003	22-SEP-10
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0002	22-SEP-10
Nickel (Ni)-Total			<0.0020		mg/L		0.002	22-SEP-10
Phosphorus (P)-Total			<0.20		mg/L		0.2	22-SEP-10



Quality Control Report

Workorder: L933241

Report Date: 24-NOV-10

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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	R1475365							
WG1171192-1 MB								
Potassium (K)-Total			<0.020		mg/L		0.02	22-SEP-10
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	22-SEP-10
Selenium (Se)-Total			<0.0010		mg/L		0.001	22-SEP-10
Silicon (Si)-Total			<0.050		mg/L		0.05	22-SEP-10
Silver (Ag)-Total			<0.00010		mg/L		0.0001	22-SEP-10
Sodium (Na)-Total			<0.030		mg/L		0.03	22-SEP-10
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	22-SEP-10
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	22-SEP-10
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	22-SEP-10
Thorium (Th)-Total			<0.00010		mg/L		0.0001	22-SEP-10
Tin (Sn)-Total			<0.00020		mg/L		0.0002	22-SEP-10
Titanium (Ti)-Total			<0.00020		mg/L		0.0002	22-SEP-10
Tungsten (W)-Total			<0.0010		mg/L		0.001	22-SEP-10
Uranium (U)-Total			<0.00010		mg/L		0.0001	22-SEP-10
Vanadium (V)-Total			<0.00020		mg/L		0.0002	22-SEP-10
Zinc (Zn)-Total			<0.0050		mg/L		0.005	22-SEP-10
Zirconium (Zr)-Total			<0.00040		mg/L		0.0004	22-SEP-10
N-TOTKJ-WP		Water						
Batch	R1474745							
WG1171475-2 CCV								
Total Kjeldahl Nitrogen			101		%		90-110	22-SEP-10
WG1171475-1 CVS								
Total Kjeldahl Nitrogen			96		%		90-110	22-SEP-10
WG1169780-4 DUP		L933264-2						
Total Kjeldahl Nitrogen		1.13	1.15	J	mg/L	0.02	0.8	22-SEP-10
WG1169780-7 DUP		L933010-4						
Total Kjeldahl Nitrogen		1.01	0.98	J	mg/L	0.03	0.8	22-SEP-10
WG1169780-2 LCS								
Total Kjeldahl Nitrogen			98		%		75-125	22-SEP-10
WG1169780-1 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	22-SEP-10
WG1169780-5 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	22-SEP-10
WG1169780-3 MS		L933264-2						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	22-SEP-10



Quality Control Report

Workorder: L933241

Report Date: 24-NOV-10

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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	R1474745							
WG1169780-6	MS	L933010-4						
Total Kjeldahl Nitrogen			N/A	MS-B	%		-	22-SEP-10
NH3-COL-WP								
	Water							
Batch	R1476930							
WG1172857-3	CCV							
Ammonia as N			105		%		63-138	23-SEP-10
WG1172857-4	DUP	L933365-1						
Ammonia as N		1.87	1.88		mg/L	0.26	20	24-SEP-10
WG1172857-2	LCS							
Ammonia as N			95		%		85-115	23-SEP-10
WG1172857-1	MB							
Ammonia as N			<0.050		mg/L		0.05	23-SEP-10
WG1172857-5	MS	L933365-1						
Ammonia as N			N/A	MS-B	%		-	24-SEP-10
P-TOTAL-WP								
	Water							
Batch	R1473947							
WG1170564-1	CCV							
Phosphorus, Total			99		%		90-110	22-SEP-10
WG1170564-2	CCV							
Phosphorus, Total			93		%		90-110	22-SEP-10
WG1170059-10	CVS							
Phosphorus, Total			108		%		80-120	22-SEP-10
WG1170059-11	CVS							
Phosphorus, Total			102		%		80-120	22-SEP-10
WG1170059-2	CVS							
Phosphorus, Total			100		%		80-120	22-SEP-10
WG1170059-3	CVS							
Phosphorus, Total			100		%		80-120	22-SEP-10
WG1170059-6	CVS							
Phosphorus, Total			101		%		80-120	22-SEP-10
WG1170059-7	CVS							
Phosphorus, Total			109		%		80-120	22-SEP-10
WG1170059-4	DUP	L933218-5						
Phosphorus, Total		0.232	0.237		mg/L	2.1	20	22-SEP-10
WG1170059-8	DUP	L933218-8						
Phosphorus, Total		2.71	2.70		mg/L	0.37	20	22-SEP-10
WG1170059-1	MB							



Quality Control Report

Workorder: L933241

Report Date: 24-NOV-10

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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-TOTAL-WP		Water						
Batch R1473947								
WG1170059-1 MB								
Phosphorus, Total			<0.010		mg/L		0.01	22-SEP-10
WG1170059-13 MS		L933298-11						
Phosphorus, Total			114		%		70-130	22-SEP-10
PH-WP		Water						
Batch R1471444								
WG1169764-4 CCV								
pH			100		%		90-110	18-SEP-10
WG1169764-3 CVS								
pH			100		%		99-101	18-SEP-10
WG1169764-8 DUP		L933218-9						
pH		8.11	8.10		pH units	0.049	5	18-SEP-10
WG1169764-9 DUP		L933241-1						
pH		6.18	7.83		pH units	0.26	5	18-SEP-10
SILICATE-COL-VA		Water						
Batch R1475808								
WG1172013-10 CRM		VA-SIO2-CSPK10						
Silicate (as SIO2)			104		%		85-115	23-SEP-10
WG1172013-3 CRM		VA-SIO2-CSPK1						
Silicate (as SIO2)			111		%		85-115	23-SEP-10
WG1172013-4 CRM		VA-SIO2-CSPK10						
Silicate (as SIO2)			101		%		85-115	23-SEP-10
WG1172013-7 CRM		VA-SIO2-CSPK1						
Silicate (as SIO2)			110		%		85-115	23-SEP-10
WG1172013-5 DUP		L934579-7						
Silicate (as SIO2)		7.4	7.0	J	mg/L	0.5	4	23-SEP-10
WG1172013-8 DUP		L933298-11						
Silicate (as SIO2)		3.4	3.3	J	mg/L	0.1	4	23-SEP-10
WG1172013-2 MB								
Silicate (as SIO2)			<1.0		mg/L		1	23-SEP-10
WG1172013-6 MB								
Silicate (as SIO2)			<1.0		mg/L		1	23-SEP-10
WG1172013-9 MB								
Silicate (as SIO2)			<1.0		mg/L		1	23-SEP-10
SOLIDS-TDS-WP		Water						



Quality Control Report

Workorder: L933241

Report Date: 24-NOV-10

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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	R1478386							
WG1172615-2	CVS							
Total Dissolved Solids			102		%		85-115	24-SEP-10
WG1172615-3	DUP	L935387-1						
Total Dissolved Solids		1640	1930		mg/L	16	20	24-SEP-10
WG1172615-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	24-SEP-10
SOLIDS-TOTSUS-WP		Water						
Batch	R1478386							
WG1172615-2	CVS							
Total Suspended Solids			98		%		85-115	24-SEP-10
WG1172615-3	DUP	L935387-1						
Total Suspended Solids		640	630		mg/L	1.6	20	24-SEP-10
WG1172615-4	DUP	L932937-1						
Total Suspended Solids		350	425		mg/L	19	20	24-SEP-10
WG1172615-5	DUP	L932950-1						
Total Suspended Solids		12500	12800		mg/L	2.9	20	24-SEP-10
WG1172615-1	MB							
Total Suspended Solids			<5.0		mg/L		5	24-SEP-10
TURBIDITY-WP		Water						
Batch	R1472530							
WG1170283-3	CCV							
Turbidity			103		%		90-110	17-SEP-10
WG1170283-4	CCV							
Turbidity			104		%		90-110	17-SEP-10
WG1170283-1	CVS							
Turbidity			98		%		63-138	17-SEP-10
WG1170283-2	CVS							
Turbidity			100		%		63-138	17-SEP-10
WG1170283-6	DUP	L932950-4						
Turbidity		375	374		NTU	0.27	15	17-SEP-10
WG1170283-7	DUP	L933218-9						
Turbidity		6.82	6.83		NTU	0.15	15	17-SEP-10
WG1170283-8	DUP	L933218-6						
Turbidity		24.8	25.2		NTU	1.6	15	17-SEP-10
WG1170283-5	LCS							
Turbidity			96		%		85-115	17-SEP-10

Quality Control Report

Workorder: L933241

Report Date: 24-NOV-10

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Legend:

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

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
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: L933241

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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	17-SEP-10 12:00	18-SEP-10 11:58	0.25	24	hours	EHTR-FM
	2	17-SEP-10 12:30	18-SEP-10 11:58	0.25	24	hours	EHTR-FM
Anions and Nutrients							
Anions scan (IC)	1	17-SEP-10 12:00	20-SEP-10 14:29	48	74	hours	EHTR
	2	17-SEP-10 12:30	20-SEP-10 14:29	48	74	hours	EHTR
Bromide	1	17-SEP-10 12:00	20-SEP-10 14:29	48	74	hours	EHTR
	2	17-SEP-10 12:30	20-SEP-10 14:29	48	74	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 L933241 were received on 20-SEP-10 12:00.

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		Report Format / Distribution		Service Requested (Rush for routine analysis subject to availability)	
Company: AECOM		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other <input checked="" type="checkbox"/> PDF <input type="checkbox"/> Excel <input type="checkbox"/> Digital <input type="checkbox"/> Fax		<input checked="" type="radio"/> Regular (Default) <input type="radio"/> Priority (Specify Date Required → → →) <input type="radio"/> Emergency (1 Business Day) - 100% Surcharge <input type="radio"/> For Emergency < 1 Day, ASAP or Weekend - Contact ALS	
Contact: Cliff Samoiloff		Email 1: shawna.kiattjanson@aecom.com		Surcharges apply	
Address: 99 Commerce Drive		Email 2: shawna.kiattjanson@aecom.com			
Winnipeg, MB		Phone: 204-928-7427 Fax: 204-284-2040			
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)	
Company:		Job #: 60160706		P P P P P P P P	
Contact:		PO / AFE:		Acidity	
Address:		LSD:		Chl a + pheo a	
Phone:		Quote #: Q24534		BOD/CBOD	
Lab Work Order # (lab use only)		ALS Contact: Christine Herrod		TOC + TIC	
Sample #		Date (dd-mm-yy)		Anions	
UC4-F10-WB1		17-Sep-10		Tot. Metals + Hg	
UC4-F10-WB2		17-Sep-10		Diss. Metals + Hg	
				General Chemistry	
				Number of Containers	
				7	
				7	

Special Instructions / Regulations / Hazardous Details			
Sample Description	Date	Time	Temperature
	17-Sep-10	12:00	7.6 °C
	17-Sep-10	12:30	

SHIPMENT-RELEASE (client-use)				SHIPMENT-RECEPTION (lab-use only)				SHIPMENT-VERIFICATION (lab-use only)			
Released by:	Date (dd-mm-yy)	Time (hh-mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ?	IF Yes add SIF
[Signature]	17-Sep-10	15:00	BLB	17-Sep-10	12:00	7.6 °C					

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.

RECHECK ANALYSIS REPORT

RC23591

Date: 19-NOV-10 13:52

Loginnum L933241
Acctnum W172
Client AECOM Canada Ltd. (Winnipeg)
Deptnum 61200

Requestby CLIENT
Due Date 19-NOV-10
Issued To GHILL
Issued By CHILL
Date Initiated 16-NOV-10

Recheck Comments

Confirm sample ID / review data / reanalyze if possible.

Nitrate-N rerun result < 0.050 mg/L reported and NO2+NO3-CALC-WP recalculated to < 0.071 meb-wp 17-Nov-10

Recheck Reason

Quality control sample(s) failure (in-house or client QC) - field blank

Action to Take

Do whats necessary

Samplenum	Prod	Mat	Parm Syn	Result	Units	Measdate	RCResult	UCL	RC RPD	RCWork#	RCMeasdate	Initials
L933241-1	ANIONS5-IC-WP	1	Nitrate-N	0.551	mg/L	20-SEP-10	<0.050	20	NA		17-NOV-10	TJJ
L933241-1	MET-T-L-MS-WP	1	Sodium (Na)-Total	0.286	mg/L	21-SEP-10	<0.03	20 No Chart	NA NA		17-NOV-10	DAG
L933241-1	MET-T-L-MS-WP	1	Strontium (Sr)-Total	0.00259	mg/L	21-SEP-10	<0.0001	20 No Chart	NA NA		17-NOV-10	DAG
L933241-1	NO2+NO3-CALC-WP	1	Nitrate and Nitrite as N	0.551	mg/L	21-SEP-10	< 0.071				17-NOV-10	

Sample Comments:**Analyst Comments:**



AECOM Canada Ltd. (Winnipeg)
ATTN: CLIFF SAMOILOFF
99 COMMERCE DRIVE
WINNIPEG MB R3P 0Y7
Phone: 204-928-7427

Date Received: 20-SEP-10
Report Date: 20-OCT-10 14:59 (MT)
Version: FINAL

Certificate of Analysis

Lab Work Order #: L933298
Project P.O. #: NOT SUBMITTED
Job Reference: 60160706
Legal Site Desc:
C of C Numbers:

Paul Nicolas

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
MANITOBA TECHNOLOGY CENTRE LTD. Part of the ALS Group A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-1 WHC-F10-WQ2							
Sampled By: SK/MR on 18-SEP-10 @ 11:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	1.4		1.0	mg/L	20-SEP-10	25-SEP-10	R1477793
Colour, True	57.2		5.0	CU		20-SEP-10	R1473166
Dissolved Organic Carbon	17.1		1.0	mg/L		18-OCT-10	R1506558
Hardness (as CaCO3)	126		0.30	mg/L		22-SEP-10	
Hardness (as CaCO3)	126		0.20	mg/L		23-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	24-SEP-10	24-SEP-10	R1479137
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		21-SEP-10	
Phosphorus, Total	0.0134		0.0020	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	8.1		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	166		5.0	mg/L		24-SEP-10	R1478386
Total Kjeldahl Nitrogen	0.47		0.20	mg/L	20-SEP-10	22-SEP-10	R1474745
Total Organic Carbon	16.9		1.0	mg/L		18-OCT-10	R1506558
Total Suspended Solids	<5.0		5.0	mg/L		24-SEP-10	R1478386
Turbidity	1.49		0.10	NTU		20-SEP-10	R1472551
Anions scan (IC)							
Chloride	1.06		0.50	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	<0.50		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0642		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Arsenic (As)-Total	0.00065		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Barium (Ba)-Total	0.00916		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Boron (B)-Total	<0.010		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	21-SEP-10	21-SEP-10	R1474113
Calcium (Ca)-Total	28.8		0.10	mg/L	21-SEP-10	21-SEP-10	R1474113
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Chromium (Cr)-Total	<0.00010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Copper (Cu)-Total	0.00044		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Iron (Fe)-Total	0.195		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Lead (Pb)-Total	0.000099		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474113
Lithium (Li)-Total	0.0029		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Magnesium (Mg)-Total	16.5		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Manganese (Mn)-Total	0.0110		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474113
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474113
Potassium (K)-Total	0.729		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Rubidium (Rb)-Total	0.00098		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Silicon (Si)-Total	4.01		0.050	mg/L	21-SEP-10	21-SEP-10	R1474113
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-1 WHC-F10-WQ2							
Sampled By: SK/MR on 18-SEP-10 @ 11:00							
Matrix: WATER							
Total Metals by ICP-MS							
Sodium (Na)-Total	1.55		0.030	mg/L	21-SEP-10	21-SEP-10	R1474113
Strontium (Sr)-Total	0.0235		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tin (Sn)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Titanium (Ti)-Total	0.00335		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Vanadium (V)-Total	0.00028		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474113
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0033		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Arsenic (As)-Dissolved	0.00068		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Barium (Ba)-Dissolved	0.00880		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	20-SEP-10	21-SEP-10	R1474176
Calcium (Ca)-Dissolved	25.0		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Copper (Cu)-Dissolved	0.00036		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Iron (Fe)-Dissolved	0.082		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	20-SEP-10	21-SEP-10	R1474176
Lithium (Li)-Dissolved	0.0023		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Magnesium (Mg)-Dissolved	15.4		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Manganese (Mn)-Dissolved	0.00428		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	20-SEP-10	21-SEP-10	R1474176
Potassium (K)-Dissolved	0.667		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Rubidium (Rb)-Dissolved	0.00088		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	20-SEP-10	21-SEP-10	R1474176
Silicon (Si)-Dissolved	3.78		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Sodium (Na)-Dissolved	1.43		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Strontium (Sr)-Dissolved	0.0227		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Titanium (Ti)-Dissolved	0.00027		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Vanadium (V)-Dissolved	0.00060		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	20-SEP-10	21-SEP-10	R1474176

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ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-1 WHC-F10-WQ2							
Sampled By: SK/MR on 18-SEP-10 @ 11:00							
Matrix: WATER							
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	<1.0		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
Phaeophytin a	<1.0		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.3		1.0	ABS Ratio	20-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	123		1.0	mg/L		20-SEP-10	R1472684
Bicarbonate (HCO3)	151		2.0	mg/L		20-SEP-10	R1472684
Carbonate (CO3)	<0.60		0.60	mg/L		20-SEP-10	R1472684
Hydroxide (OH)	<0.40		0.40	mg/L		20-SEP-10	R1472684
Conductivity							
Conductivity	232		0.40	umhos/cm		20-SEP-10	R1472684
pH							
pH	8.02		0.10	pH units		20-SEP-10	R1472684
L933298-2 GRR-F10-WQ1							
Sampled By: SK/MR on 18-SEP-10 @ 13:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	1.7		1.0	mg/L	20-SEP-10	25-SEP-10	R1477793
Colour, True	30.4		5.0	CU		20-SEP-10	R1473166
Dissolved Organic Carbon	15.3		1.0	mg/L		01-OCT-10	R1486213
Hardness (as CaCO3)	77.4		0.20	mg/L		23-SEP-10	
Hardness (as CaCO3)	77.4		0.30	mg/L		22-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	24-SEP-10	24-SEP-10	R1479137
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		21-SEP-10	
Phosphorus, Total	0.0194		0.0020	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	2.6		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	108		5.0	mg/L		24-SEP-10	R1478386
Total Kjeldahl Nitrogen	0.60		0.20	mg/L	20-SEP-10	22-SEP-10	R1474745
Total Organic Carbon	14.0		1.0	mg/L		15-OCT-10	R1505267
Total Suspended Solids	6.0		5.0	mg/L		24-SEP-10	R1478386
Turbidity	2.20		0.10	NTU		20-SEP-10	R1472551
Anions scan (IC)							
Chloride	0.84		0.50	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	1.99		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0612		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Arsenic (As)-Total	0.00069		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Barium (Ba)-Total	0.0111		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Boron (B)-Total	<0.010		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	21-SEP-10	21-SEP-10	R1474113
Calcium (Ca)-Total	17.6		0.10	mg/L	21-SEP-10	21-SEP-10	R1474113

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-2 GRR-F10-WQ1							
Sampled By: SK/MR on 18-SEP-10 @ 13:00							
Matrix: WATER							
Total Metals by ICP-MS							
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Copper (Cu)-Total	0.00060		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Iron (Fe)-Total	0.144		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Lead (Pb)-Total	<0.000090		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474113
Lithium (Li)-Total	0.0030		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Magnesium (Mg)-Total	9.77		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Manganese (Mn)-Total	0.0281		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474113
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474113
Potassium (K)-Total	1.20		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Rubidium (Rb)-Total	0.00134		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Silicon (Si)-Total	1.45		0.050	mg/L	21-SEP-10	21-SEP-10	R1474113
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Sodium (Na)-Total	2.11		0.030	mg/L	21-SEP-10	21-SEP-10	R1474113
Strontium (Sr)-Total	0.0328		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tin (Sn)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Titanium (Ti)-Total	0.00315		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Vanadium (V)-Total	0.00035		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474113
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0027		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Arsenic (As)-Dissolved	0.00066		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Barium (Ba)-Dissolved	0.0103		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	20-SEP-10	21-SEP-10	R1474176
Calcium (Ca)-Dissolved	15.8		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Copper (Cu)-Dissolved	0.00048		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Iron (Fe)-Dissolved	0.019		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	20-SEP-10	21-SEP-10	R1474176
Lithium (Li)-Dissolved	0.0030		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Magnesium (Mg)-Dissolved	9.23		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Manganese (Mn)-Dissolved	0.00120		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	20-SEP-10	21-SEP-10	R1474176

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-2 GRR-F10-WQ1 Sampled By: SK/MR on 18-SEP-10 @ 13:00 Matrix: WATER							
Dissolved Metals by ICP-MS							
Potassium (K)-Dissolved	1.07		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Rubidium (Rb)-Dissolved	0.00115		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	20-SEP-10	21-SEP-10	R1474176
Silicon (Si)-Dissolved	1.38		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Sodium (Na)-Dissolved	1.99		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Strontium (Sr)-Dissolved	0.0297		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Titanium (Ti)-Dissolved	0.00021		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Vanadium (V)-Dissolved	0.00042		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	20-SEP-10	21-SEP-10	R1474176
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	4.0		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
Phaeophytin a	2.0		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.5		1.0	ABS Ratio	20-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	76.3		1.0	mg/L		20-SEP-10	R1472684
Bicarbonate (HCO3)	93.1		2.0	mg/L		20-SEP-10	R1472684
Carbonate (CO3)	<0.60		0.60	mg/L		20-SEP-10	R1472684
Hydroxide (OH)	<0.40		0.40	mg/L		20-SEP-10	R1472684
Conductivity							
Conductivity	153		0.40	umhos/cm		20-SEP-10	R1472684
pH							
pH	8.07		0.10	pH units		20-SEP-10	R1472684
L933298-3 RDL-F10-WQ1 Sampled By: SK/MR on 18-SEP-10 @ 14:00 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	1.1		1.0	mg/L	20-SEP-10	25-SEP-10	R1477793
Colour, True	30.4		5.0	CU		20-SEP-10	R1473166
Dissolved Organic Carbon	14.3		1.0	mg/L		18-OCT-10	R1506558
Hardness (as CaCO3)	77.9		0.20	mg/L		24-SEP-10	
Hardness (as CaCO3)	77.9		0.30	mg/L		24-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	24-SEP-10	24-SEP-10	R1479137
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		21-SEP-10	
Phosphorus, Total	0.0175		0.0020	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	2.8		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	110		5.0	mg/L		24-SEP-10	R1478386
Total Kjeldahl Nitrogen	0.56		0.20	mg/L	20-SEP-10	22-SEP-10	R1474745

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-3 RDL-F10-WQ1							
Sampled By: SK/MR on 18-SEP-10 @ 14:00							
Matrix: WATER							
Total Organic Carbon	14.3		1.0	mg/L		18-OCT-10	R1506558
Total Suspended Solids	6.0		5.0	mg/L		24-SEP-10	R1478386
Turbidity	2.49		0.10	NTU		20-SEP-10	R1472551
Anions scan (IC)							
Chloride	0.75		0.50	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	1.93		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0584		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Arsenic (As)-Total	0.00069		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Barium (Ba)-Total	0.0105		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Boron (B)-Total	<0.010		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	21-SEP-10	21-SEP-10	R1474113
Calcium (Ca)-Total	17.0		0.10	mg/L	21-SEP-10	21-SEP-10	R1474113
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Copper (Cu)-Total	0.00059		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Iron (Fe)-Total	0.143		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Lead (Pb)-Total	<0.000090		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474113
Lithium (Li)-Total	0.0040		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Magnesium (Mg)-Total	9.42		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Manganese (Mn)-Total	0.0269		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474113
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474113
Potassium (K)-Total	1.13		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Rubidium (Rb)-Total	0.00127		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Silicon (Si)-Total	1.32		0.050	mg/L	21-SEP-10	23-SEP-10	R1476963
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Sodium (Na)-Total	2.00		0.030	mg/L	21-SEP-10	21-SEP-10	R1474113
Strontium (Sr)-Total	0.0317		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tin (Sn)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Titanium (Ti)-Total	0.00257		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Vanadium (V)-Total	0.00035		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474113
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0025		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Arsenic (As)-Dissolved	0.00067		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Barium (Ba)-Dissolved	0.0104		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-3 RDL-F10-WQ1 Sampled By: SK/MR on 18-SEP-10 @ 14:00 Matrix: WATER							
Dissolved Metals by ICP-MS							
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	20-SEP-10	21-SEP-10	R1474176
Calcium (Ca)-Dissolved	16.0		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Copper (Cu)-Dissolved	0.00056		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Iron (Fe)-Dissolved	0.021		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	20-SEP-10	21-SEP-10	R1474176
Lithium (Li)-Dissolved	0.0034		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Magnesium (Mg)-Dissolved	9.22		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Manganese (Mn)-Dissolved	0.00200		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	20-SEP-10	21-SEP-10	R1474176
Potassium (K)-Dissolved	1.08		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Rubidium (Rb)-Dissolved	0.00118		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	20-SEP-10	21-SEP-10	R1474176
Silicon (Si)-Dissolved	1.16		0.050	mg/L	20-SEP-10	23-SEP-10	R1476963
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Sodium (Na)-Dissolved	2.01		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Strontium (Sr)-Dissolved	0.0295		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Vanadium (V)-Dissolved	0.00040		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	20-SEP-10	21-SEP-10	R1474176
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	5.5		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
Phaeophytin a	2.3		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.5		1.0	ABS Ratio	20-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	76.1		1.0	mg/L		20-SEP-10	R1472684
Bicarbonate (HCO3)	92.8		2.0	mg/L		20-SEP-10	R1472684
Carbonate (CO3)	<0.60		0.60	mg/L		20-SEP-10	R1472684
Hydroxide (OH)	<0.40		0.40	mg/L		20-SEP-10	R1472684
Conductivity							
Conductivity	152		0.40	umhos/cm		20-SEP-10	R1472684
pH							
pH	8.01		0.10	pH units		20-SEP-10	R1472684
L933298-4 RDL-F10-WQ2 Sampled By: SK/MR on 18-SEP-10 @ 16:00 Matrix: WATER							

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-4 RDL-F10-WQ2							
Sampled By: SK/MR on 18-SEP-10 @ 16:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	2.2		1.0	mg/L	20-SEP-10	25-SEP-10	R1477793
Colour, True	16.9		5.0	CU		20-SEP-10	R1473166
Dissolved Organic Carbon	11.6		1.0	mg/L		18-OCT-10	R1506558
Hardness (as CaCO3)	76.8		0.30	mg/L		22-SEP-10	
Hardness (as CaCO3)	76.8		0.20	mg/L		23-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	24-SEP-10	24-SEP-10	R1479137
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		21-SEP-10	
Phosphorus, Total	0.0302		0.0020	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	2.8		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	112		5.0	mg/L		24-SEP-10	R1478386
Total Kjeldahl Nitrogen	0.56		0.20	mg/L	20-SEP-10	22-SEP-10	R1474745
Total Organic Carbon	11.6		1.0	mg/L		18-OCT-10	R1506558
Total Suspended Solids	10.0		5.0	mg/L		24-SEP-10	R1478386
Turbidity	2.46		0.10	NTU		20-SEP-10	R1472551
Anions scan (IC)							
Chloride	3.12		0.50	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	4.47		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0652		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Arsenic (As)-Total	0.00084		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Barium (Ba)-Total	0.0108		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Boron (B)-Total	0.010		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	21-SEP-10	21-SEP-10	R1474113
Calcium (Ca)-Total	18.0		0.10	mg/L	21-SEP-10	21-SEP-10	R1474113
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Copper (Cu)-Total	0.00072		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Iron (Fe)-Total	0.123		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Lead (Pb)-Total	<0.000090		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474113
Lithium (Li)-Total	0.0035		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Magnesium (Mg)-Total	9.44		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Manganese (Mn)-Total	0.0277		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474113
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474113
Potassium (K)-Total	1.25		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Rubidium (Rb)-Total	0.00137		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Silicon (Si)-Total	1.65		0.050	mg/L	21-SEP-10	21-SEP-10	R1474113
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-4 RDL-F10-WQ2							
Sampled By: SK/MR on 18-SEP-10 @ 16:00							
Matrix: WATER							
Total Metals by ICP-MS							
Sodium (Na)-Total	2.57		0.030	mg/L	21-SEP-10	21-SEP-10	R1474113
Strontium (Sr)-Total	0.0361		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tin (Sn)-Total	0.00032		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Titanium (Ti)-Total	0.00375		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Vanadium (V)-Total	0.00041		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474113
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Arsenic (As)-Dissolved	0.00060		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Barium (Ba)-Dissolved	0.0103		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	20-SEP-10	21-SEP-10	R1474176
Calcium (Ca)-Dissolved	16.2		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Copper (Cu)-Dissolved	0.00054		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	20-SEP-10	21-SEP-10	R1474176
Lithium (Li)-Dissolved	0.0032		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Magnesium (Mg)-Dissolved	8.86		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Manganese (Mn)-Dissolved	0.00015		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	20-SEP-10	21-SEP-10	R1474176
Potassium (K)-Dissolved	1.12		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Rubidium (Rb)-Dissolved	0.00119		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	20-SEP-10	21-SEP-10	R1474176
Silicon (Si)-Dissolved	1.57		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Sodium (Na)-Dissolved	2.50		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Strontium (Sr)-Dissolved	0.0336		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Vanadium (V)-Dissolved	0.00035		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	20-SEP-10	21-SEP-10	R1474176

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-4 RDL-F10-WQ2 Sampled By: SK/MR on 18-SEP-10 @ 16:00 Matrix: WATER							
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	9.9		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
Phaeophytin a	1.6		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.6		1.0	ABS Ratio	20-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	76.6		1.0	mg/L		20-SEP-10	R1472684
Bicarbonate (HCO3)	93.5		2.0	mg/L		20-SEP-10	R1472684
Carbonate (CO3)	<0.60		0.60	mg/L		20-SEP-10	R1472684
Hydroxide (OH)	<0.40		0.40	mg/L		20-SEP-10	R1472684
Conductivity							
Conductivity	158		0.40	umhos/cm		20-SEP-10	R1472684
pH							
pH	8.17		0.10	pH units		20-SEP-10	R1472684
L933298-5 RDL-F10-WQ3 Sampled By: SK/MR on 18-SEP-10 @ 10:00 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	1.4		1.0	mg/L	20-SEP-10	25-SEP-10	R1477793
Colour, True	16.9		5.0	CU		20-SEP-10	R1473166
Dissolved Organic Carbon	12.8		1.0	mg/L		01-OCT-10	R1486213
Hardness (as CaCO3)	79.0		0.20	mg/L		24-SEP-10	
Hardness (as CaCO3)	79.0		0.30	mg/L		24-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	24-SEP-10	24-SEP-10	R1479137
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		21-SEP-10	
Phosphorus, Total	0.0274		0.0020	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	3.0		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	104		5.0	mg/L		24-SEP-10	R1478386
Total Kjeldahl Nitrogen	0.54		0.20	mg/L	20-SEP-10	22-SEP-10	R1474745
Total Organic Carbon	12.0		1.0	mg/L		15-OCT-10	R1505267
Total Suspended Solids	7.0		5.0	mg/L		24-SEP-10	R1478386
Turbidity	2.74		0.10	NTU		20-SEP-10	R1472551
Anions scan (IC)							
Chloride	1.78		0.50	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	2.51		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0323		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Arsenic (As)-Total	0.00080		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Barium (Ba)-Total	0.0102		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Boron (B)-Total	0.011		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	21-SEP-10	23-SEP-10	R1476963
Calcium (Ca)-Total	18.2		0.10	mg/L	21-SEP-10	21-SEP-10	R1474113

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-5 RDL-F10-WQ3							
Sampled By: SK/MR on 18-SEP-10 @ 10:00							
Matrix: WATER							
Total Metals by ICP-MS							
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Copper (Cu)-Total	0.00080		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Iron (Fe)-Total	0.081		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Lead (Pb)-Total	<0.000090		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474113
Lithium (Li)-Total	0.0040		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Magnesium (Mg)-Total	9.35		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Manganese (Mn)-Total	0.0230		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474113
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474113
Potassium (K)-Total	1.25		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Rubidium (Rb)-Total	0.00131		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Silicon (Si)-Total	1.61		0.050	mg/L	21-SEP-10	21-SEP-10	R1474113
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Sodium (Na)-Total	2.57		0.030	mg/L	21-SEP-10	21-SEP-10	R1474113
Strontium (Sr)-Total	0.0369		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tin (Sn)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Titanium (Ti)-Total	0.00120		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Vanadium (V)-Total	0.00036		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474113
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Arsenic (As)-Dissolved	0.00065		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Barium (Ba)-Dissolved	0.0102		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	20-SEP-10	23-SEP-10	R1476963
Calcium (Ca)-Dissolved	16.7		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Copper (Cu)-Dissolved	0.00058		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	20-SEP-10	21-SEP-10	R1474176
Lithium (Li)-Dissolved	0.0029		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Magnesium (Mg)-Dissolved	9.05		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Manganese (Mn)-Dissolved	0.00016		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Molybdenum (Mo)-Dissolved	0.00013		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	20-SEP-10	21-SEP-10	R1474176

* 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
L933298-5 RDL-F10-WQ3 Sampled By: SK/MR on 18-SEP-10 @ 10:00 Matrix: WATER							
Dissolved Metals by ICP-MS							
Potassium (K)-Dissolved	1.16		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Rubidium (Rb)-Dissolved	0.00125		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	20-SEP-10	21-SEP-10	R1474176
Silicon (Si)-Dissolved	1.37		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Sodium (Na)-Dissolved	2.47		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Strontium (Sr)-Dissolved	0.0341		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Titanium (Ti)-Dissolved	0.00021		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Uranium (U)-Dissolved	0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Vanadium (V)-Dissolved	0.00050		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	20-SEP-10	21-SEP-10	R1474176
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	9.9		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
Phaeophytin a	1.7		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.6		1.0	ABS Ratio	20-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	76.3		1.0	mg/L		20-SEP-10	R1472684
Bicarbonate (HCO3)	93.1		2.0	mg/L		20-SEP-10	R1472684
Carbonate (CO3)	<0.60		0.60	mg/L		20-SEP-10	R1472684
Hydroxide (OH)	<0.40		0.40	mg/L		20-SEP-10	R1472684
Conductivity							
Conductivity	157		0.40	umhos/cm		20-SEP-10	R1472684
pH							
pH	8.13		0.10	pH units		20-SEP-10	R1472684
L933298-6 RDL-F10-WQ7 Sampled By: SK/MR on 18-SEP-10 @ 14:00 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	1.5		1.0	mg/L	20-SEP-10	25-SEP-10	R1477793
Colour, True	31.6		5.0	CU		20-SEP-10	R1473166
Dissolved Organic Carbon	15.4		1.0	mg/L		01-OCT-10	R1486213
Hardness (as CaCO3)	76.8		0.30	mg/L		22-SEP-10	
Hardness (as CaCO3)	76.8		0.20	mg/L		23-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	24-SEP-10	24-SEP-10	R1479137
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		21-SEP-10	
Phosphorus, Total	0.0220		0.0020	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	2.6		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	72.0		5.0	mg/L		24-SEP-10	R1478386
Total Kjeldahl Nitrogen	0.56		0.20	mg/L	20-SEP-10	22-SEP-10	R1474745

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-6 RDL-F10-WQ7							
Sampled By: SK/MR on 18-SEP-10 @ 14:00							
Matrix: WATER							
Total Organic Carbon	14.4		1.0	mg/L		15-OCT-10	R1505267
Total Suspended Solids	<5.0		5.0	mg/L		24-SEP-10	R1478386
Turbidity	2.11		0.10	NTU		20-SEP-10	R1472551
Anions scan (IC)							
Chloride	0.74		0.50	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	1.86		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0553		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Arsenic (As)-Total	0.00069		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Barium (Ba)-Total	0.0104		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Boron (B)-Total	<0.010		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	21-SEP-10	21-SEP-10	R1474113
Calcium (Ca)-Total	17.0		0.10	mg/L	21-SEP-10	21-SEP-10	R1474113
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Copper (Cu)-Total	0.00062		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Iron (Fe)-Total	0.142		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Lead (Pb)-Total	<0.000090		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474113
Lithium (Li)-Total	0.0032		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Magnesium (Mg)-Total	9.48		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Manganese (Mn)-Total	0.0271		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474113
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474113
Potassium (K)-Total	1.13		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Rubidium (Rb)-Total	0.00127		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Silicon (Si)-Total	2.01		0.050	mg/L	21-SEP-10	21-SEP-10	R1474113
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Sodium (Na)-Total	2.05		0.030	mg/L	21-SEP-10	21-SEP-10	R1474113
Strontium (Sr)-Total	0.0315		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tin (Sn)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Titanium (Ti)-Total	0.00256		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Vanadium (V)-Total	0.00036		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474113
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0028		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Arsenic (As)-Dissolved	0.00067		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Barium (Ba)-Dissolved	0.0104		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-6 RDL-F10-WQ7 Sampled By: SK/MR on 18-SEP-10 @ 14:00 Matrix: WATER							
Dissolved Metals by ICP-MS							
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	20-SEP-10	21-SEP-10	R1474176
Calcium (Ca)-Dissolved	15.7		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Copper (Cu)-Dissolved	0.00050		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Iron (Fe)-Dissolved	0.023		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	20-SEP-10	21-SEP-10	R1474176
Lithium (Li)-Dissolved	0.0029		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Magnesium (Mg)-Dissolved	9.14		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Manganese (Mn)-Dissolved	0.00207		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	20-SEP-10	21-SEP-10	R1474176
Potassium (K)-Dissolved	1.08		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Rubidium (Rb)-Dissolved	0.00119		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	20-SEP-10	21-SEP-10	R1474176
Silicon (Si)-Dissolved	1.30		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Sodium (Na)-Dissolved	2.01		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Strontium (Sr)-Dissolved	0.0302		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Vanadium (V)-Dissolved	0.00037		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	20-SEP-10	21-SEP-10	R1474176
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	5.2		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
Phaeophytin a	2.2		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.5		1.0	ABS Ratio	20-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	76.3		1.0	mg/L		20-SEP-10	R1472684
Bicarbonate (HCO3)	93.1		2.0	mg/L		20-SEP-10	R1472684
Carbonate (CO3)	<0.60		0.60	mg/L		20-SEP-10	R1472684
Hydroxide (OH)	<0.40		0.40	mg/L		20-SEP-10	R1472684
Conductivity							
Conductivity	152		0.40	umhos/cm		20-SEP-10	R1472684
pH							
pH	8.04		0.10	pH units		20-SEP-10	R1472684
L933298-7 RDL-F10-WQ8 Sampled By: SK/MR on 18-SEP-10 @ 14:00 Matrix: WATER							

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-7 RDL-F10-WQ8							
Sampled By: SK/MR on 18-SEP-10 @ 14:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	1.4		1.0	mg/L	20-SEP-10	25-SEP-10	R1477793
Colour, True	31.9		5.0	CU		20-SEP-10	R1473166
Dissolved Organic Carbon	14.1		1.0	mg/L		19-OCT-10	R1506558
Hardness (as CaCO3)	76.9		0.20	mg/L		23-SEP-10	
Hardness (as CaCO3)	76.9		0.30	mg/L		22-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	24-SEP-10	24-SEP-10	R1479137
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		23-SEP-10	
Phosphorus, Total	0.0172		0.0020	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	2.8		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	96.0		5.0	mg/L		24-SEP-10	R1478386
Total Kjeldahl Nitrogen	0.59		0.20	mg/L	20-SEP-10	22-SEP-10	R1474745
Total Organic Carbon	14.2		1.0	mg/L		18-OCT-10	R1506558
Total Suspended Solids	<5.0		5.0	mg/L		24-SEP-10	R1478386
Turbidity	3.02		0.10	NTU		20-SEP-10	R1472551
Anions scan (IC)							
Chloride	0.73		0.50	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	1.85		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0571		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Arsenic (As)-Total	0.00070		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Barium (Ba)-Total	0.0107		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Boron (B)-Total	<0.010		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	21-SEP-10	21-SEP-10	R1474113
Calcium (Ca)-Total	17.4		0.10	mg/L	21-SEP-10	21-SEP-10	R1474113
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Chromium (Cr)-Total	<0.00010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Copper (Cu)-Total	0.00061		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Iron (Fe)-Total	0.143		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Lead (Pb)-Total	<0.000090		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474113
Lithium (Li)-Total	0.0031		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Magnesium (Mg)-Total	9.58		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Manganese (Mn)-Total	0.0277		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474113
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474113
Potassium (K)-Total	1.15		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Rubidium (Rb)-Total	0.00128		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Silicon (Si)-Total	1.76		0.050	mg/L	21-SEP-10	21-SEP-10	R1474113
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-7 RDL-F10-WQ8							
Sampled By: SK/MR on 18-SEP-10 @ 14:00							
Matrix: WATER							
Total Metals by ICP-MS							
Sodium (Na)-Total	2.06		0.030	mg/L	21-SEP-10	21-SEP-10	R1474113
Strontium (Sr)-Total	0.0316		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tin (Sn)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Titanium (Ti)-Total	0.00259		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Vanadium (V)-Total	0.00037		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474113
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0027		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Arsenic (As)-Dissolved	0.00066		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Barium (Ba)-Dissolved	0.0104		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	20-SEP-10	21-SEP-10	R1474176
Calcium (Ca)-Dissolved	15.8		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Copper (Cu)-Dissolved	0.00053		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Iron (Fe)-Dissolved	0.022		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	20-SEP-10	21-SEP-10	R1474176
Lithium (Li)-Dissolved	0.0029		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Magnesium (Mg)-Dissolved	9.11		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Manganese (Mn)-Dissolved	0.00190		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Nickel (Ni)-Dissolved	0.00035		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	20-SEP-10	21-SEP-10	R1474176
Potassium (K)-Dissolved	1.07		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Rubidium (Rb)-Dissolved	0.00114		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	20-SEP-10	21-SEP-10	R1474176
Silicon (Si)-Dissolved	1.33		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Sodium (Na)-Dissolved	1.99		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Strontium (Sr)-Dissolved	0.0297		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Vanadium (V)-Dissolved	0.00037		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	20-SEP-10	21-SEP-10	R1474176

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-7 RDL-F10-WQ8 Sampled By: SK/MR on 18-SEP-10 @ 14:00 Matrix: WATER							
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	5.3		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
Phaeophytin a	1.5		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.5		1.0	ABS Ratio	20-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	76.3		1.0	mg/L		20-SEP-10	R1472684
Bicarbonate (HCO3)	93.1		2.0	mg/L		20-SEP-10	R1472684
Carbonate (CO3)	<0.60		0.60	mg/L		20-SEP-10	R1472684
Hydroxide (OH)	<0.40		0.40	mg/L		20-SEP-10	R1472684
Conductivity							
Conductivity	152		0.40	umhos/cm		20-SEP-10	R1472684
pH							
pH	8.03		0.10	pH units		20-SEP-10	R1472684
L933298-8 RDL-F10-WQ9 Sampled By: SK/MR on 18-SEP-10 @ 14:00 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	1.4		1.0	mg/L	20-SEP-10	25-SEP-10	R1477793
Colour, True	31.7		5.0	CU		20-SEP-10	R1473166
Dissolved Organic Carbon	14.2		1.0	mg/L		19-OCT-10	R1506558
Hardness (as CaCO3)	75.6		0.30	mg/L		24-SEP-10	
Hardness (as CaCO3)	75.6		0.20	mg/L		24-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	24-SEP-10	24-SEP-10	R1479137
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		23-SEP-10	
Phosphorus, Total	0.0173		0.0020	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	2.6		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	96.0		5.0	mg/L		24-SEP-10	R1478386
Total Kjeldahl Nitrogen	0.65		0.20	mg/L	20-SEP-10	24-SEP-10	R1477257
Total Organic Carbon	14.3		1.0	mg/L		19-OCT-10	R1506558
Total Suspended Solids	5.0		5.0	mg/L		24-SEP-10	R1478386
Turbidity	2.25		0.10	NTU		20-SEP-10	R1472551
Anions scan (IC)							
Chloride	0.73		0.50	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	1.84		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0624		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Arsenic (As)-Total	0.00070		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Barium (Ba)-Total	0.0105		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Boron (B)-Total	<0.010		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	21-SEP-10	21-SEP-10	R1474113
Calcium (Ca)-Total	17.6		0.10	mg/L	21-SEP-10	21-SEP-10	R1474113

* 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
L933298-8 RDL-F10-WQ9							
Sampled By: SK/MR on 18-SEP-10 @ 14:00							
Matrix: WATER							
Total Metals by ICP-MS							
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Copper (Cu)-Total	0.00080		0.00020	mg/L	21-SEP-10	23-SEP-10	R1476963
Iron (Fe)-Total	0.137		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Lead (Pb)-Total	<0.000090		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474113
Lithium (Li)-Total	0.0044		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Magnesium (Mg)-Total	9.63		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Manganese (Mn)-Total	0.0272		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474113
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474113
Potassium (K)-Total	1.15		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Rubidium (Rb)-Total	0.00128		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Silicon (Si)-Total	1.57		0.050	mg/L	21-SEP-10	21-SEP-10	R1474113
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Sodium (Na)-Total	2.02		0.030	mg/L	21-SEP-10	21-SEP-10	R1474113
Strontium (Sr)-Total	0.0315		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tin (Sn)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Titanium (Ti)-Total	0.00242		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Vanadium (V)-Total	0.00035		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474113
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0024		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Arsenic (As)-Dissolved	0.00065		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Barium (Ba)-Dissolved	0.0101		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	20-SEP-10	21-SEP-10	R1474176
Calcium (Ca)-Dissolved	15.5		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Copper (Cu)-Dissolved	0.00055		0.00020	mg/L	20-SEP-10	23-SEP-10	R1476963
Iron (Fe)-Dissolved	0.021		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Lead (Pb)-Dissolved	0.000245		0.000090	mg/L	20-SEP-10	21-SEP-10	R1474176
Lithium (Li)-Dissolved	0.0025		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Magnesium (Mg)-Dissolved	8.96		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Manganese (Mn)-Dissolved	0.00192		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	20-SEP-10	21-SEP-10	R1474176

* 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
L933298-8 RDL-F10-WQ9 Sampled By: SK/MR on 18-SEP-10 @ 14:00 Matrix: WATER							
Dissolved Metals by ICP-MS							
Potassium (K)-Dissolved	1.04		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Rubidium (Rb)-Dissolved	0.00118		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	20-SEP-10	21-SEP-10	R1474176
Silicon (Si)-Dissolved	1.31		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Sodium (Na)-Dissolved	1.96		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Strontium (Sr)-Dissolved	0.0297		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Vanadium (V)-Dissolved	0.00040		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zinc (Zn)-Dissolved	0.0033		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	20-SEP-10	21-SEP-10	R1474176
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	4.2		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
Phaeophytin a	1.7		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.5		1.0	ABS Ratio	20-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	76.3		1.0	mg/L		20-SEP-10	R1472684
Bicarbonate (HCO3)	93.1		2.0	mg/L		20-SEP-10	R1472684
Carbonate (CO3)	<0.60		0.60	mg/L		20-SEP-10	R1472684
Hydroxide (OH)	<0.40		0.40	mg/L		20-SEP-10	R1472684
Conductivity							
Conductivity	152		0.40	umhos/cm		20-SEP-10	R1472684
pH							
pH	8.04		0.10	pH units		20-SEP-10	R1472684
L933298-9 RDL-F10-WQ4 Sampled By: SK/MR on 18-SEP-10 @ 10:00 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	1.3		1.0	mg/L	20-SEP-10	25-SEP-10	R1477793
Colour, True	13.0		5.0	CU		20-SEP-10	R1473166
Dissolved Organic Carbon	12.1		1.0	mg/L		02-OCT-10	R1486213
Hardness (as CaCO3)	77.5		0.20	mg/L		23-SEP-10	
Hardness (as CaCO3)	77.5		0.30	mg/L		22-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	24-SEP-10	24-SEP-10	R1479137
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		23-SEP-10	
Phosphorus, Total	0.0295		0.0020	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	3.2		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	104		5.0	mg/L		24-SEP-10	R1478386
Total Kjeldahl Nitrogen	0.60		0.20	mg/L	20-SEP-10	22-SEP-10	R1474745

* 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
L933298-9 RDL-F10-WQ4							
Sampled By: SK/MR on 18-SEP-10 @ 10:00							
Matrix: WATER							
Total Organic Carbon	11.4		1.0	mg/L		15-OCT-10	R1505267
Total Suspended Solids	5.0		5.0	mg/L		24-SEP-10	R1478386
Turbidity	2.02		0.10	NTU		20-SEP-10	R1472551
Anions scan (IC)							
Chloride	1.92		0.50	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	2.69		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0360		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Arsenic (As)-Total	0.00089		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Barium (Ba)-Total	0.0105		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Boron (B)-Total	0.011		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	21-SEP-10	21-SEP-10	R1474113
Calcium (Ca)-Total	18.0		0.10	mg/L	21-SEP-10	21-SEP-10	R1474113
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Copper (Cu)-Total	0.00063		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Iron (Fe)-Total	0.079		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Lead (Pb)-Total	<0.000090		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474113
Lithium (Li)-Total	0.0033		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Magnesium (Mg)-Total	9.35		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Manganese (Mn)-Total	0.0252		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474113
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474113
Potassium (K)-Total	1.24		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Rubidium (Rb)-Total	0.00130		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Silicon (Si)-Total	1.68		0.050	mg/L	21-SEP-10	21-SEP-10	R1474113
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Sodium (Na)-Total	2.61		0.030	mg/L	21-SEP-10	21-SEP-10	R1474113
Strontium (Sr)-Total	0.0366		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tin (Sn)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Titanium (Ti)-Total	0.00129		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Vanadium (V)-Total	0.00036		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474113
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Arsenic (As)-Dissolved	0.00059		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Barium (Ba)-Dissolved	0.0103		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-9 RDL-F10-WQ4 Sampled By: SK/MR on 18-SEP-10 @ 10:00 Matrix: WATER							
Dissolved Metals by ICP-MS							
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	20-SEP-10	21-SEP-10	R1474176
Calcium (Ca)-Dissolved	16.4		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Copper (Cu)-Dissolved	0.00053		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	20-SEP-10	21-SEP-10	R1474176
Lithium (Li)-Dissolved	0.0035		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Magnesium (Mg)-Dissolved	8.87		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	20-SEP-10	21-SEP-10	R1474176
Potassium (K)-Dissolved	1.14		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Rubidium (Rb)-Dissolved	0.00127		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	20-SEP-10	21-SEP-10	R1474176
Silicon (Si)-Dissolved	1.54		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Sodium (Na)-Dissolved	2.55		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Strontium (Sr)-Dissolved	0.0354		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Titanium (Ti)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Vanadium (V)-Dissolved	0.00046		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	20-SEP-10	21-SEP-10	R1474176
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	10.9		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
Phaeophytin a	3.0		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.5		1.0	ABS Ratio	20-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	76.6		1.0	mg/L		20-SEP-10	R1472684
Bicarbonate (HCO3)	93.4		2.0	mg/L		20-SEP-10	R1472684
Carbonate (CO3)	<0.60		0.60	mg/L		20-SEP-10	R1472684
Hydroxide (OH)	<0.40		0.40	mg/L		20-SEP-10	R1472684
Conductivity							
Conductivity	158		0.40	umhos/cm		20-SEP-10	R1472684
pH							
pH	8.22		0.10	pH units		20-SEP-10	R1472684
L933298-10 RDL-F10-WQ5 Sampled By: SK/MR on 18-SEP-10 @ 13:00 Matrix: WATER							

* 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
L933298-10 RDL-F10-WQ5							
Sampled By: SK/MR on 18-SEP-10 @ 13:00							
Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	1.3		1.0	mg/L	20-SEP-10	25-SEP-10	R1477793
Colour, True	74.4		5.0	CU		20-SEP-10	R1473166
Dissolved Organic Carbon	20.4		1.0	mg/L		02-OCT-10	R1486213
Hardness (as CaCO3)	155		0.20	mg/L		24-SEP-10	
Hardness (as CaCO3)	155		0.30	mg/L		24-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	24-SEP-10	24-SEP-10	R1479137
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		23-SEP-10	
Phosphorus, Total	0.0102		0.0020	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	7.0		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	172		5.0	mg/L		24-SEP-10	R1478386
Total Kjeldahl Nitrogen	0.81		0.20	mg/L	20-SEP-10	22-SEP-10	R1474745
Total Organic Carbon	20.6		1.0	mg/L		15-OCT-10	R1505267
Total Suspended Solids	<5.0		5.0	mg/L		24-SEP-10	R1478386
Turbidity	0.57		0.10	NTU		20-SEP-10	R1472551
Anions scan (IC)							
Chloride	2.89		0.50	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	<0.50		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.0659		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Arsenic (As)-Total	0.00056		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Barium (Ba)-Total	0.00995		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Boron (B)-Total	<0.010		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	21-SEP-10	21-SEP-10	R1474113
Calcium (Ca)-Total	35.4		0.10	mg/L	21-SEP-10	21-SEP-10	R1474113
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Copper (Cu)-Total	0.00039		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Iron (Fe)-Total	0.105		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Lead (Pb)-Total	<0.000090		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474113
Lithium (Li)-Total	0.0039		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Magnesium (Mg)-Total	20.2		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Manganese (Mn)-Total	0.00546		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474113
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474113
Potassium (K)-Total	0.611		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Rubidium (Rb)-Total	0.00080		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Silicon (Si)-Total	3.24		0.050	mg/L	21-SEP-10	21-SEP-10	R1474113
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-10 RDL-F10-WQ5							
Sampled By: SK/MR on 18-SEP-10 @ 13:00							
Matrix: WATER							
Total Metals by ICP-MS							
Sodium (Na)-Total	3.02		0.030	mg/L	21-SEP-10	21-SEP-10	R1474113
Strontium (Sr)-Total	0.0394		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tin (Sn)-Total	<0.00020		0.00020	mg/L	21-SEP-10	23-SEP-10	R1476963
Titanium (Ti)-Total	0.00266		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Vanadium (V)-Total	0.00030		0.00020	mg/L	21-SEP-10	23-SEP-10	R1476963
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474113
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	0.0028		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Arsenic (As)-Dissolved	0.00063		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Barium (Ba)-Dissolved	0.00957		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	20-SEP-10	21-SEP-10	R1474176
Calcium (Ca)-Dissolved	30.8		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Copper (Cu)-Dissolved	0.00023		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Iron (Fe)-Dissolved	0.032		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	20-SEP-10	21-SEP-10	R1474176
Lithium (Li)-Dissolved	0.0037		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Magnesium (Mg)-Dissolved	19.0		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Manganese (Mn)-Dissolved	0.00234		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	20-SEP-10	21-SEP-10	R1474176
Potassium (K)-Dissolved	0.555		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Rubidium (Rb)-Dissolved	0.00066		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	20-SEP-10	21-SEP-10	R1474176
Silicon (Si)-Dissolved	3.41		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Sodium (Na)-Dissolved	3.02		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Strontium (Sr)-Dissolved	0.0383		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	23-SEP-10	R1476963
Titanium (Ti)-Dissolved	0.00022		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Vanadium (V)-Dissolved	0.00030		0.00020	mg/L	20-SEP-10	23-SEP-10	R1476963
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	20-SEP-10	21-SEP-10	R1474176

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-10 RDL-F10-WQ5 Sampled By: SK/MR on 18-SEP-10 @ 13:00 Matrix: WATER							
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	<1.0		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
Phaeophytin a	<1.0		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.3		1.0	ABS Ratio	20-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	148		1.0	mg/L		20-SEP-10	R1472684
Bicarbonate (HCO3)	181		2.0	mg/L		20-SEP-10	R1472684
Carbonate (CO3)	<0.60		0.60	mg/L		20-SEP-10	R1472684
Hydroxide (OH)	<0.40		0.40	mg/L		20-SEP-10	R1472684
Conductivity							
Conductivity	281		0.40	umhos/cm		20-SEP-10	R1472684
pH							
pH	8.00		0.10	pH units		20-SEP-10	R1472684
L933298-11 RDL-F10-WQ6 Sampled By: SK/MR on 18-SEP-10 @ 11:00 Matrix: WATER							
Miscellaneous Parameters							
Acidity (as CaCO3)	<1.0		1.0	mg/L		23-SEP-10	R1476323
Ammonia as N	<0.050		0.050	mg/L		23-SEP-10	R1476930
Bromide (Br)	<0.10		0.10	mg/L		20-SEP-10	R1473075
BOD Carbonaceous	1.8		1.0	mg/L	20-SEP-10	25-SEP-10	R1477793
Colour, True	22.7		5.0	CU		20-SEP-10	R1473166
Dissolved Organic Carbon	15.2		1.0	mg/L		02-OCT-10	R1486213
Hardness (as CaCO3)	122		0.20	mg/L		23-SEP-10	
Hardness (as CaCO3)	122		0.30	mg/L		22-SEP-10	
Mercury (Hg)-Dissolved	<0.000050		0.000050	mg/L	24-SEP-10	24-SEP-10	R1479137
Mercury (Hg)-Total	<0.000050		0.000050	mg/L	20-SEP-10	20-SEP-10	R1473170
Nitrate and Nitrite as N	<0.071		0.071	mg/L		23-SEP-10	
Phosphorus, Total	0.0190		0.0020	mg/L		22-SEP-10	R1473947
Silicate (as SiO2)	3.4		1.0	mg/L		23-SEP-10	R1475808
Total Dissolved Solids	142		5.0	mg/L		24-SEP-10	R1478386
Total Kjeldahl Nitrogen	0.66		0.20	mg/L	20-SEP-10	22-SEP-10	R1474745
Total Organic Carbon	14.5		1.0	mg/L		15-OCT-10	R1505267
Total Suspended Solids	12.0		5.0	mg/L		24-SEP-10	R1478386
Turbidity	4.46		0.10	NTU		20-SEP-10	R1472551
Anions scan (IC)							
Chloride	2.11		0.50	mg/L		20-SEP-10	R1473075
Nitrite-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Nitrate-N	<0.050		0.050	mg/L		20-SEP-10	R1473075
Sulfate	1.66		0.50	mg/L		20-SEP-10	R1473075
Total Metals by ICP-MS							
Aluminum (Al)-Total	0.174		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Antimony (Sb)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Arsenic (As)-Total	0.00057		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Barium (Ba)-Total	0.0131		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Beryllium (Be)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Bismuth (Bi)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Boron (B)-Total	0.010		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cadmium (Cd)-Total	<0.000010		0.000010	mg/L	21-SEP-10	21-SEP-10	R1474113
Calcium (Ca)-Total	27.3		0.10	mg/L	21-SEP-10	21-SEP-10	R1474113

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-11 RDL-F10-WQ6							
Sampled By: SK/MR on 18-SEP-10 @ 11:00							
Matrix: WATER							
Total Metals by ICP-MS							
Cesium (Cs)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Chromium (Cr)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Cobalt (Co)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Copper (Cu)-Total	0.00061		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Iron (Fe)-Total	0.170		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Lead (Pb)-Total	0.000174		0.000090	mg/L	21-SEP-10	21-SEP-10	R1474113
Lithium (Li)-Total	0.0032		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Magnesium (Mg)-Total	16.6		0.010	mg/L	21-SEP-10	21-SEP-10	R1474113
Manganese (Mn)-Total	0.0143		0.00030	mg/L	21-SEP-10	21-SEP-10	R1474113
Molybdenum (Mo)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Nickel (Ni)-Total	<0.0020		0.0020	mg/L	21-SEP-10	21-SEP-10	R1474113
Phosphorus (P)-Total	<0.20		0.20	mg/L	21-SEP-10	21-SEP-10	R1474113
Potassium (K)-Total	0.976		0.020	mg/L	21-SEP-10	21-SEP-10	R1474113
Rubidium (Rb)-Total	0.00106		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Selenium (Se)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Silicon (Si)-Total	2.19		0.050	mg/L	21-SEP-10	21-SEP-10	R1474113
Silver (Ag)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Sodium (Na)-Total	3.01		0.030	mg/L	21-SEP-10	21-SEP-10	R1474113
Strontium (Sr)-Total	0.0370		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Thallium (Tl)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Thorium (Th)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Tin (Sn)-Total	<0.00020		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Titanium (Ti)-Total	0.00610		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Tungsten (W)-Total	<0.0010		0.0010	mg/L	21-SEP-10	21-SEP-10	R1474113
Uranium (U)-Total	<0.00010		0.00010	mg/L	21-SEP-10	21-SEP-10	R1474113
Vanadium (V)-Total	0.00050		0.00020	mg/L	21-SEP-10	21-SEP-10	R1474113
Zinc (Zn)-Total	<0.0050		0.0050	mg/L	21-SEP-10	21-SEP-10	R1474113
Zirconium (Zr)-Total	<0.00040		0.00040	mg/L	21-SEP-10	21-SEP-10	R1474113
Dissolved Metals by ICP-MS							
Aluminum (Al)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Antimony (Sb)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Arsenic (As)-Dissolved	0.00057		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Barium (Ba)-Dissolved	0.0121		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Beryllium (Be)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Bismuth (Bi)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Cadmium (Cd)-Dissolved	<0.000010		0.000010	mg/L	20-SEP-10	21-SEP-10	R1474176
Calcium (Ca)-Dissolved	23.6		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Cesium (Cs)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Chromium (Cr)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Cobalt (Co)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Copper (Cu)-Dissolved	0.00038		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Lead (Pb)-Dissolved	<0.000090		0.000090	mg/L	20-SEP-10	21-SEP-10	R1474176
Lithium (Li)-Dissolved	0.0031		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Magnesium (Mg)-Dissolved	15.3		0.010	mg/L	20-SEP-10	21-SEP-10	R1474176
Manganese (Mn)-Dissolved	0.00011		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Molybdenum (Mo)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Nickel (Ni)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Phosphorus (P)-Dissolved	<0.10		0.10	mg/L	20-SEP-10	21-SEP-10	R1474176

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L933298-11 RDL-F10-WQ6							
Sampled By: SK/MR on 18-SEP-10 @ 11:00							
Matrix: WATER							
Dissolved Metals by ICP-MS							
Potassium (K)-Dissolved	0.839		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Rubidium (Rb)-Dissolved	0.00072		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Selenium (Se)-Dissolved	<0.0010		0.0010	mg/L	20-SEP-10	21-SEP-10	R1474176
Silicon (Si)-Dissolved	1.64		0.050	mg/L	20-SEP-10	21-SEP-10	R1474176
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Sodium (Na)-Dissolved	2.77		0.020	mg/L	20-SEP-10	21-SEP-10	R1474176
Strontium (Sr)-Dissolved	0.0339		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Thallium (Tl)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Tin (Sn)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Titanium (Ti)-Dissolved	0.00025		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Tungsten (W)-Dissolved	<0.00020		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Uranium (U)-Dissolved	<0.00010		0.00010	mg/L	20-SEP-10	21-SEP-10	R1474176
Vanadium (V)-Dissolved	0.00061		0.00020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zinc (Zn)-Dissolved	<0.0020		0.0020	mg/L	20-SEP-10	21-SEP-10	R1474176
Zirconium (Zr)-Dissolved	<0.00040		0.00040	mg/L	20-SEP-10	21-SEP-10	R1474176
Chlorophyll-a & Pheophytin-a							
Chlorophyll a	5.0		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
Phaeophytin a	2.8		1.0	ug/L	20-SEP-10	21-SEP-10	R1475101
ODb/ODa	1.4		1.0	ABS Ratio	20-SEP-10	21-SEP-10	R1475101
pH, Conductivity and Total Alkalinity							
Alkalinity							
Alkalinity, Total (as CaCO3)	123		1.0	mg/L		20-SEP-10	R1472684
Bicarbonate (HCO3)	146		2.0	mg/L		20-SEP-10	R1472684
Carbonate (CO3)	2.09		0.60	mg/L		20-SEP-10	R1472684
Hydroxide (OH)	<0.40		0.40	mg/L		20-SEP-10	R1472684
Conductivity							
Conductivity	237		0.40	umhos/cm		20-SEP-10	R1472684
pH							
pH	8.38		0.10	pH units		20-SEP-10	R1472684

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

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Ammonia as N	MS-B	L933298-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9

Test Method References:

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

ANIONS5-IC-WP	Water	Anions scan (IC)	EPA 300.1 IC
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This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".

BR-IC-WP	Water	Bromide	EPA 300.1 IC
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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
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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.

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/A,PHEO/A-ACET-WP	Water	Chlorophyll-a & Pheophytin-a	APHA 10200H, 1998-664/750NM
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Chlorophyll-a is filtered from the sample, then extracted with 90% (v/v) acetone. Absorbance is measured spectrophotometrically at 664 nm and 750 nm. The extract is then acidified, converting chlorophyll-a to pheophytin-a. Absorbance is determined again after acidification. The chlorophyll-a concentration is determined from the decrease in absorbance upon acidification. When a detection limit of 0.5 ug/L is required, the volume of sample filtered is doubled to 700mL.

Samples with an OD664 before/OD665 after acidification ratio (664b/665a) of 1.70 are considered to contain no pheophytin a and to be in excellent physiological condition. Solutions of pure pheophytin show no reduction in OD665 upon acidification and have a 664b/665a ratio of 1.0 Thus, mixtures of chlorophyll a and pheophytin a have absorption peak ratios ranging between 1.0 and 1.7. These ratios are based on the use of 90% acetone as solvent.

COLOUR-TRUE-WP	Water	Colour, True	APHA 4500 COLOR
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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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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	Calculated
ETL-HARDNESS-TOT-WP	Water	Hardness Calculated	Calculated
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 - Colourimetric using Salicylate-nitroprusside and hypochlorite, in an alkaline phosphate buffer.</p>			
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
P-TOTAL-WP	Water	Phosphorus, Total	APHA, 1998 P-T
<p>Samples are digested using a sulphuric acid-persulfate mixture to convert organic phosphorous to orthophosphate. The samples are analyzed by either the Flow Injection Analysis (FIA) or the Segmented Flow Analysis (SFA) method. The absorbance measured by the instrument is proportional to the concentration of orthophosphate in the sample, and is reported as phosphorous.</p>			
PH-WP	Water	pH	APHA 4500H
<p>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>			
SILICATE-COL-VA	Water	Silicate by Colourimetric analysis	APHA 4500-SiO2 D.
<p>This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 D. "Silica". Silicate (molybdate-reactive silica) is determined by the molybdosilicate-heteropoly blue colourimetric method.</p>			
SOLIDS-TDS-WP	Water	Total Dissolved Solids	APHA 2540

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
		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 2540
		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 LABORATORY GROUP - WINNIPEG, MANITOBA, CANADA
VA	ALS LABORATORY GROUP - VANCOUVER, BC, 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: L933298

Report Date: 20-OCT-10

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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-LOW-WP								
	Water							
Batch	R1476323							
WG1172258-1	CVS							
Acidity (as CaCO3)			106		%		85-115	23-SEP-10
WG1172258-2	DUP	L935000-1						
Acidity (as CaCO3)		2.2	2.1	J	mg/L	0.2	4	23-SEP-10
ALK-TOT-WP								
	Water							
Batch	R1472684							
WG1170409-5	CVS							
Alkalinity, Total (as CaCO3)			101		%		85-115	20-SEP-10
WG1170409-6	CVS							
Alkalinity, Total (as CaCO3)			99		%		85-115	20-SEP-10
WG1170409-7	DUP	L933294-3						
Alkalinity, Total (as CaCO3)		722	722		mg/L	0.083	20	20-SEP-10
Bicarbonate (HCO3)		881	880		mg/L	0.083	26	20-SEP-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	20-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	20-SEP-10
WG1170409-8	DUP	L933298-7						
Alkalinity, Total (as CaCO3)		76.3	76.2		mg/L	0.13	20	20-SEP-10
Bicarbonate (HCO3)		93.1	93.0		mg/L	0.13	26	20-SEP-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	20-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	20-SEP-10
WG1170409-9	DUP	L932800-7						
Alkalinity, Total (as CaCO3)		18.5	18.4		mg/L	0.60	20	20-SEP-10
Bicarbonate (HCO3)		22.6	22.5		mg/L	0.60	26	20-SEP-10
Carbonate (CO3)		<0.60	<0.60	RPD-NA	mg/L	N/A	26	20-SEP-10
Hydroxide (OH)		<0.40	<0.40	RPD-NA	mg/L	N/A	26	20-SEP-10
ANIONS5-IC-WP								
	Water							
Batch	R1473075							
WG1170535-2	LCS							
Chloride			98		%		85-115	20-SEP-10
Nitrite-N			101		%		85-115	20-SEP-10
Nitrate-N			96		%		85-115	20-SEP-10
Sulfate			99		%		85-115	20-SEP-10
WG1170535-1	MB							
Chloride			<0.50		mg/L		0.5	20-SEP-10
Nitrite-N			<0.050		mg/L		0.05	20-SEP-10
Nitrate-N			<0.050		mg/L		0.05	20-SEP-10



Quality Control Report

Workorder: L933298

Report Date: 20-OCT-10

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Client: AECOM Canada Ltd. (Winnipeg)
99 COMMERCE DRIVE
WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ANIONS5-IC-WP								
	Water							
Batch	R1473075							
WG1170535-1	MB							
Sulfate			<0.50		mg/L		0.5	20-SEP-10
BR-IC-WP								
	Water							
Batch	R1473075							
WG1170535-2	LCS							
Bromide (Br)			102		%		85-115	20-SEP-10
WG1170535-1	MB							
Bromide (Br)			<0.10		mg/L		0.1	20-SEP-10
C-DIS-ORG-WP								
	Water							
Batch	R1486213							
WG1177906-3	CCV							
Dissolved Organic Carbon			102		%		63-138	02-OCT-10
WG1177906-2	CVS							
Dissolved Organic Carbon			103		%		80-120	01-OCT-10
Batch	R1506558							
WG1186425-3	CCV							
Dissolved Organic Carbon			100		%		63-138	19-OCT-10
WG1186425-2	CVS							
Dissolved Organic Carbon			100		%		80-120	18-OCT-10
WG1186425-1	MB							
Dissolved Organic Carbon			<1.0		mg/L		1	18-OCT-10
C-TOT-ORG-WP								
	Water							
Batch	R1505267							
WG1185687-3	CCV							
Total Organic Carbon			100		%		63-138	15-OCT-10
WG1185687-2	CVS							
Total Organic Carbon			97		%		80-120	15-OCT-10
WG1185687-4	DUP	L939643-1						
Total Organic Carbon		19.7	19.0		mg/L	3.8	20	16-OCT-10
WG1185687-1	MB							
Total Organic Carbon			<1.0		mg/L		1	15-OCT-10
Batch	R1506558							
WG1186425-3	CCV							
Total Organic Carbon			100		%		63-138	19-OCT-10
WG1186425-2	CVS							
Total Organic Carbon			99		%		80-120	18-OCT-10



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
C-TOT-ORG-WP								
	Water							
Batch	R1506558							
WG1186425-4	DUP	L940150-4						
Total Organic Carbon		23.4	23.2		mg/L	0.97	20	19-OCT-10
WG1186425-1	MB							
Total Organic Carbon			<1.0		mg/L		1	18-OCT-10
CHL/A,PHEO/A-ACET-WP								
	Water							
Batch	R1475101							
WG1170206-1	CVS							
Chlorophyll a			96		%		65-135	21-SEP-10
WG1170206-2	CVS							
Chlorophyll a			86		%		65-135	21-SEP-10
COLOUR-TRUE-WP								
	Water							
Batch	R1473166							
WG1170656-3	DUP	L933298-1						
Colour, True		57.2	61.6		CU	7.5	20	20-SEP-10
WG1170656-2	LCS							
Colour, True			105		%		85-115	20-SEP-10
WG1170656-1	MB							
Colour, True			<5.0		CU		5	20-SEP-10
CONSULT-BOD-CBOD-WP								
	Water							
Batch	R1477793							
WG1169985-3	DUP	L933298-1						
BOD Carbonaceous		1.4	1.2	J	mg/L	0.2	4	25-SEP-10
WG1169985-2	IRM	61-GG						
BOD Carbonaceous			96		%		85-115	25-SEP-10
WG1169985-1	MB							
BOD Carbonaceous			<1.0		mg/L		1	25-SEP-10
EC-WP								
	Water							
Batch	R1472684							
WG1170409-2	CCV							
Conductivity			103		%		95-105	20-SEP-10
WG1170409-1	CVS							
Conductivity			99		%		90-110	20-SEP-10
WG1170409-7	DUP	L933294-3						
Conductivity		1530	1530		umhos/cm	0.0	10	20-SEP-10
WG1170409-8	DUP	L933298-7						
Conductivity		152	152		umhos/cm	0.13	10	20-SEP-10
HG-D-CVAF-WP								
	Water							



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAF-WP		Water						
Batch	R1479137							
WG1174084-3 DUP		L933234-4						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
WG1174084-5 DUP		L933298-8						
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
Mercury (Hg)-Dissolved		N/A	<0.000050	RPD-NA	mg/L	N/A	20	24-SEP-10
WG1174084-2 LCS			91		%		80-120	24-SEP-10
Mercury (Hg)-Dissolved			91		%		80-120	24-SEP-10
WG1174083-1 MB			<0.000050		mg/L		0.00005	24-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	24-SEP-10
WG1174084-1 MB			<0.000050		mg/L		0.00005	24-SEP-10
Mercury (Hg)-Dissolved			<0.000050		mg/L		0.00005	24-SEP-10
WG1174084-4 MS		L933234-4	97		%		70-130	24-SEP-10
Mercury (Hg)-Dissolved			97		%		70-130	24-SEP-10
WG1174084-6 MS		L933298-8	93		%		70-130	24-SEP-10
Mercury (Hg)-Dissolved			93		%		70-130	24-SEP-10
HG-T-CVAF-WP		Water						
Batch	R1473170							
WG1170630-3 DUP		L932770-2						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170630-5 DUP		L933234-1						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170630-7 DUP		L933298-4						
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
Mercury (Hg)-Total		N/A	<0.000050	RPD-NA	mg/L	N/A	20	20-SEP-10
WG1170630-2 LCS			105		%		63-138	20-SEP-10
Mercury (Hg)-Total			105		%		63-138	20-SEP-10
WG1170630-1 MB							0.00005	



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-T-CVAF-WP								
	Water							
Batch	R1473170							
WG1170630-1 MB								
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	20-SEP-10
Mercury (Hg)-Total			<0.000050		mg/L		0.00005	20-SEP-10
WG1170630-4 MS		L932770-2						
Mercury (Hg)-Total			107		%		70-130	20-SEP-10
Mercury (Hg)-Total			107		%		70-130	20-SEP-10
WG1170630-6 MS		L933234-1						
Mercury (Hg)-Total			100		%		70-130	20-SEP-10
Mercury (Hg)-Total			100		%		70-130	20-SEP-10
WG1170630-8 MS		L933298-4						
Mercury (Hg)-Total			103		%		70-130	20-SEP-10
Mercury (Hg)-Total			103		%		70-130	20-SEP-10
MET-D-L-MS-WP								
	Water							
Batch	R1474176							
WG1171285-3 CCV								
Aluminum (Al)-Dissolved			94		%		90-110	21-SEP-10
Antimony (Sb)-Dissolved			100		%		90-110	21-SEP-10
Arsenic (As)-Dissolved			98		%		90-110	21-SEP-10
Barium (Ba)-Dissolved			100		%		90-110	21-SEP-10
Beryllium (Be)-Dissolved			95		%		90-110	21-SEP-10
Bismuth (Bi)-Dissolved			100		%		90-110	21-SEP-10
Boron (B)-Dissolved			96		%		90-110	21-SEP-10
Cadmium (Cd)-Dissolved			97		%		90-110	21-SEP-10
Calcium (Ca)-Dissolved			98		%		90-110	21-SEP-10
Cesium (Cs)-Dissolved			99		%		90-110	21-SEP-10
Chromium (Cr)-Dissolved			99		%		90-110	21-SEP-10
Cobalt (Co)-Dissolved			101		%		90-110	21-SEP-10
Copper (Cu)-Dissolved			99		%		90-110	21-SEP-10
Iron (Fe)-Dissolved			100		%		90-110	21-SEP-10
Lead (Pb)-Dissolved			100		%		90-110	21-SEP-10
Lithium (Li)-Dissolved			100		%		90-110	21-SEP-10
Magnesium (Mg)-Dissolved			96		%		90-110	21-SEP-10
Manganese (Mn)-Dissolved			98		%		90-110	21-SEP-10
Molybdenum (Mo)-Dissolved			98		%		90-110	21-SEP-10
Nickel (Ni)-Dissolved			100		%		90-110	21-SEP-10



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99 COMMERCE DRIVE
WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1474176							
WG1171285-3 CCV								
Phosphorus (P)-Dissolved			99		%		90-110	21-SEP-10
Potassium (K)-Dissolved			98		%		90-110	21-SEP-10
Rubidium (Rb)-Dissolved			98		%		90-110	21-SEP-10
Selenium (Se)-Dissolved			97		%		90-110	21-SEP-10
Silicon (Si)-Dissolved			99		%		90-110	21-SEP-10
Silver (Ag)-Dissolved			97		%		90-110	21-SEP-10
Sodium (Na)-Dissolved			96		%		90-110	21-SEP-10
Strontium (Sr)-Dissolved			96		%		90-110	21-SEP-10
Tellurium (Te)-Dissolved			97		%		90-110	21-SEP-10
Thallium (Tl)-Dissolved			100		%		90-110	21-SEP-10
Thorium (Th)-Dissolved			95		%		63-138	21-SEP-10
Tin (Sn)-Dissolved			100		%		90-110	21-SEP-10
Titanium (Ti)-Dissolved			99		%		90-110	21-SEP-10
Tungsten (W)-Dissolved			98		%		90-110	21-SEP-10
Uranium (U)-Dissolved			95		%		90-110	21-SEP-10
Vanadium (V)-Dissolved			100		%		90-110	21-SEP-10
Zinc (Zn)-Dissolved			98		%		90-110	21-SEP-10
Zirconium (Zr)-Dissolved			97		%		90-110	21-SEP-10
WG1171285-1 CVS								
Aluminum (Al)-Dissolved			92		%		80-120	21-SEP-10
Antimony (Sb)-Dissolved			98		%		80-120	21-SEP-10
Arsenic (As)-Dissolved			97		%		80-120	21-SEP-10
Barium (Ba)-Dissolved			101		%		80-120	21-SEP-10
Beryllium (Be)-Dissolved			97		%		80-120	21-SEP-10
Bismuth (Bi)-Dissolved			101		%		80-120	21-SEP-10
Boron (B)-Dissolved			98		%		80-120	21-SEP-10
Cadmium (Cd)-Dissolved			97		%		80-120	21-SEP-10
Calcium (Ca)-Dissolved			100		%		80-120	21-SEP-10
Cesium (Cs)-Dissolved			100		%		80-120	21-SEP-10
Chromium (Cr)-Dissolved			99		%		80-120	21-SEP-10
Cobalt (Co)-Dissolved			101		%		80-120	21-SEP-10
Copper (Cu)-Dissolved			99		%		80-120	21-SEP-10
Iron (Fe)-Dissolved			98		%		80-120	21-SEP-10
Lead (Pb)-Dissolved			100		%		80-120	21-SEP-10



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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1474176							
WG1171285-1 CVS								
Lithium (Li)-Dissolved			100		%		80-120	21-SEP-10
Magnesium (Mg)-Dissolved			96		%		80-120	21-SEP-10
Manganese (Mn)-Dissolved			99		%		80-120	21-SEP-10
Molybdenum (Mo)-Dissolved			96		%		80-120	21-SEP-10
Nickel (Ni)-Dissolved			100		%		80-120	21-SEP-10
Phosphorus (P)-Dissolved			95		%		80-120	21-SEP-10
Potassium (K)-Dissolved			99		%		80-120	21-SEP-10
Rubidium (Rb)-Dissolved			97		%		80-120	21-SEP-10
Selenium (Se)-Dissolved			97		%		80-120	21-SEP-10
Silicon (Si)-Dissolved			96		%		63-138	21-SEP-10
Silver (Ag)-Dissolved			95		%		63-138	21-SEP-10
Sodium (Na)-Dissolved			95		%		80-120	21-SEP-10
Strontium (Sr)-Dissolved			95		%		80-120	21-SEP-10
Tellurium (Te)-Dissolved			95		%		80-120	21-SEP-10
Thallium (Tl)-Dissolved			100		%		80-120	21-SEP-10
Thorium (Th)-Dissolved			95		%		63-138	21-SEP-10
Tin (Sn)-Dissolved			97		%		80-120	21-SEP-10
Titanium (Ti)-Dissolved			96		%		80-120	21-SEP-10
Tungsten (W)-Dissolved			98		%		80-120	21-SEP-10
Uranium (U)-Dissolved			94		%		80-120	21-SEP-10
Vanadium (V)-Dissolved			99		%		80-120	21-SEP-10
Zinc (Zn)-Dissolved			99		%		80-120	21-SEP-10
Zirconium (Zr)-Dissolved			94		%		80-120	21-SEP-10
WG1171285-2 CVS								
Aluminum (Al)-Dissolved			102		%		80-120	21-SEP-10
Antimony (Sb)-Dissolved			98		%		80-120	21-SEP-10
Arsenic (As)-Dissolved			101		%		80-120	21-SEP-10
Barium (Ba)-Dissolved			99		%		80-120	21-SEP-10
Beryllium (Be)-Dissolved			100		%		80-120	21-SEP-10
Bismuth (Bi)-Dissolved			103		%		80-120	21-SEP-10
Boron (B)-Dissolved			100		%		80-120	21-SEP-10
Cadmium (Cd)-Dissolved			100		%		80-120	21-SEP-10
Calcium (Ca)-Dissolved			105		%		80-120	21-SEP-10
Cesium (Cs)-Dissolved			100		%		80-120	21-SEP-10



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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1474176							
WG1171285-2	CVS							
Chromium (Cr)-Dissolved			101		%		80-120	21-SEP-10
Cobalt (Co)-Dissolved			99		%		80-120	21-SEP-10
Copper (Cu)-Dissolved			100		%		80-120	21-SEP-10
Iron (Fe)-Dissolved			103		%		80-120	21-SEP-10
Lead (Pb)-Dissolved			101		%		80-120	21-SEP-10
Lithium (Li)-Dissolved			101		%		80-120	21-SEP-10
Magnesium (Mg)-Dissolved			100		%		80-120	21-SEP-10
Manganese (Mn)-Dissolved			102		%		80-120	21-SEP-10
Molybdenum (Mo)-Dissolved			101		%		80-120	21-SEP-10
Nickel (Ni)-Dissolved			100		%		80-120	21-SEP-10
Phosphorus (P)-Dissolved			101		%		80-120	21-SEP-10
Potassium (K)-Dissolved			101		%		80-120	21-SEP-10
Rubidium (Rb)-Dissolved			101		%		80-120	21-SEP-10
Selenium (Se)-Dissolved			102		%		80-120	21-SEP-10
Silicon (Si)-Dissolved			104		%		63-138	21-SEP-10
Silver (Ag)-Dissolved			98		%		63-138	21-SEP-10
Sodium (Na)-Dissolved			102		%		80-120	21-SEP-10
Strontium (Sr)-Dissolved			100		%		80-120	21-SEP-10
Tellurium (Te)-Dissolved			99		%		80-120	21-SEP-10
Thallium (Tl)-Dissolved			99		%		80-120	21-SEP-10
Thorium (Th)-Dissolved			102		%		63-138	21-SEP-10
Tin (Sn)-Dissolved			99		%		80-120	21-SEP-10
Titanium (Ti)-Dissolved			100		%		80-120	21-SEP-10
Tungsten (W)-Dissolved			98		%		80-120	21-SEP-10
Uranium (U)-Dissolved			101		%		80-120	21-SEP-10
Vanadium (V)-Dissolved			101		%		80-120	21-SEP-10
Zinc (Zn)-Dissolved			101		%		80-120	21-SEP-10
Zirconium (Zr)-Dissolved			101		%		80-120	21-SEP-10
WG1171276-4	DUP		WG1171276-3					
Aluminum (Al)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	22-SEP-10
Antimony (Sb)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Arsenic (As)-Dissolved		0.00127	0.00125	J	mg/L	0.00002	0.0008	22-SEP-10
Barium (Ba)-Dissolved		0.0544	0.0536		mg/L	1.4	20	22-SEP-10
Beryllium (Be)-Dissolved		<0.00020	<0.00020					



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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1474176							
WG1171276-4	DUP	WG1171276-3						
Beryllium (Be)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Bismuth (Bi)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Boron (B)-Dissolved		0.028	0.026	J	mg/L	0.002	0.04	22-SEP-10
Cadmium (Cd)-Dissolved		0.000010	0.000011	J	mg/L	0.000001	0.00004	22-SEP-10
Calcium (Ca)-Dissolved		72.3	71.9		mg/L	0.55	20	22-SEP-10
Cesium (Cs)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	22-SEP-10
Chromium (Cr)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Cobalt (Co)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Copper (Cu)-Dissolved		0.00082	0.00077	J	mg/L	0.00005	0.0008	22-SEP-10
Iron (Fe)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	22-SEP-10
Lead (Pb)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	22-SEP-10
Lithium (Li)-Dissolved		0.0093	0.0088	J	mg/L	0.0004	0.008	22-SEP-10
Magnesium (Mg)-Dissolved		23.1	22.9		mg/L	1.0	20	22-SEP-10
Manganese (Mn)-Dissolved		0.135	0.134		mg/L	1.1	20	22-SEP-10
Molybdenum (Mo)-Dissolved		0.00358	0.00364		mg/L	1.4	20	22-SEP-10
Nickel (Ni)-Dissolved		0.00133	0.00137	J	mg/L	0.00004	0.0008	22-SEP-10
Phosphorus (P)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	20	22-SEP-10
Potassium (K)-Dissolved		1.65	1.63		mg/L	1.5	20	22-SEP-10
Rubidium (Rb)-Dissolved		0.00107	0.00107	J	mg/L	0.00000	0.0008	22-SEP-10
Selenium (Se)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	22-SEP-10
Silicon (Si)-Dissolved		6.23	6.10		mg/L	2.1	20	22-SEP-10
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	22-SEP-10
Sodium (Na)-Dissolved		5.41	5.21		mg/L	3.8	20	22-SEP-10
Strontium (Sr)-Dissolved		0.117	0.116		mg/L	0.98	20	22-SEP-10
Tellurium (Te)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Thallium (Tl)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	22-SEP-10
Thorium (Th)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	22-SEP-10
Tin (Sn)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Titanium (Ti)-Dissolved		0.00038	0.00023	J	mg/L	0.00015	0.0008	22-SEP-10
Tungsten (W)-Dissolved		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	22-SEP-10
Uranium (U)-Dissolved		0.00087	0.00087	J	mg/L	0.00000	0.0004	22-SEP-10
Vanadium (V)-Dissolved		0.00120	0.00119	J	mg/L	0.00002	0.0008	22-SEP-10
Zinc (Zn)-Dissolved		<0.0020	<0.0020		mg/L			22-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
99 COMMERCE DRIVE
WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP								
	Water							
Batch	R1474176							
WG1171276-4	DUP	WG1171276-3						
Zinc (Zn)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	22-SEP-10
Zirconium (Zr)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	22-SEP-10
WG1171276-2	LCS							
Aluminum (Al)-Dissolved			100		%		80-120	21-SEP-10
Antimony (Sb)-Dissolved			99		%		80-120	21-SEP-10
Arsenic (As)-Dissolved			102		%		80-120	21-SEP-10
Barium (Ba)-Dissolved			106		%		80-120	21-SEP-10
Beryllium (Be)-Dissolved			108		%		80-120	21-SEP-10
Bismuth (Bi)-Dissolved			103		%		80-120	21-SEP-10
Boron (B)-Dissolved			104		%		80-120	21-SEP-10
Cadmium (Cd)-Dissolved			103		%		80-120	21-SEP-10
Calcium (Ca)-Dissolved			102		%		80-120	21-SEP-10
Cesium (Cs)-Dissolved			108		%		80-120	21-SEP-10
Chromium (Cr)-Dissolved			106		%		80-120	21-SEP-10
Cobalt (Co)-Dissolved			106		%		80-120	21-SEP-10
Copper (Cu)-Dissolved			102		%		80-120	21-SEP-10
Iron (Fe)-Dissolved			102		%		80-120	21-SEP-10
Lead (Pb)-Dissolved			99		%		80-120	21-SEP-10
Lithium (Li)-Dissolved			104		%		80-120	21-SEP-10
Magnesium (Mg)-Dissolved			105		%		80-120	21-SEP-10
Manganese (Mn)-Dissolved			106		%		80-120	21-SEP-10
Molybdenum (Mo)-Dissolved			105		%		80-120	21-SEP-10
Nickel (Ni)-Dissolved			102		%		80-120	21-SEP-10
Phosphorus (P)-Dissolved			109		%		80-120	21-SEP-10
Potassium (K)-Dissolved			103		%		80-120	21-SEP-10
Rubidium (Rb)-Dissolved			108		%		80-120	21-SEP-10
Selenium (Se)-Dissolved			102		%		80-120	21-SEP-10
Silicon (Si)-Dissolved			108		%		80-120	21-SEP-10
Silver (Ag)-Dissolved			104		%		80-120	21-SEP-10
Sodium (Na)-Dissolved			107		%		80-120	21-SEP-10
Strontium (Sr)-Dissolved			101		%		80-120	21-SEP-10
Tellurium (Te)-Dissolved			108		%		80-120	21-SEP-10
Thallium (Tl)-Dissolved			100		%		80-120	21-SEP-10
Thorium (Th)-Dissolved			98		%		80-120	21-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch	R1474176							
WG1171276-2	LCS							
Tin (Sn)-Dissolved			101		%		80-120	21-SEP-10
Titanium (Ti)-Dissolved			105		%		80-120	21-SEP-10
Tungsten (W)-Dissolved			104		%		80-120	21-SEP-10
Uranium (U)-Dissolved			105		%		80-120	21-SEP-10
Vanadium (V)-Dissolved			106		%		80-120	21-SEP-10
Zinc (Zn)-Dissolved			104		%		80-120	21-SEP-10
Zirconium (Zr)-Dissolved			103		%		80-120	21-SEP-10
WG1171276-1	MB							
Aluminum (Al)-Dissolved			<0.0020		mg/L		0.002	21-SEP-10
Antimony (Sb)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Arsenic (As)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Barium (Ba)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Beryllium (Be)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Bismuth (Bi)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Boron (B)-Dissolved			<0.010		mg/L		0.01	21-SEP-10
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	21-SEP-10
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	21-SEP-10
Cesium (Cs)-Dissolved			<0.00010		mg/L		0.0001	21-SEP-10
Chromium (Cr)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Cobalt (Co)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	21-SEP-10
Lead (Pb)-Dissolved			<0.000090		mg/L		0.00009	21-SEP-10
Lithium (Li)-Dissolved			<0.0020		mg/L		0.002	21-SEP-10
Magnesium (Mg)-Dissolved			<0.010		mg/L		0.01	21-SEP-10
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	21-SEP-10
Molybdenum (Mo)-Dissolved			<0.00010		mg/L		0.0001	21-SEP-10
Nickel (Ni)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Phosphorus (P)-Dissolved			<0.10		mg/L		0.1	21-SEP-10
Potassium (K)-Dissolved			<0.020		mg/L		0.02	21-SEP-10
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	21-SEP-10
Selenium (Se)-Dissolved			<0.0010		mg/L		0.001	21-SEP-10
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	21-SEP-10
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	21-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-L-MS-WP		Water						
Batch R1474176								
WG1171276-1 MB								
	Sodium (Na)-Dissolved		<0.020		mg/L		0.02	21-SEP-10
	Strontium (Sr)-Dissolved		<0.00010		mg/L		0.0001	21-SEP-10
	Tellurium (Te)-Dissolved		<0.00020		mg/L		0.0002	21-SEP-10
	Thallium (Tl)-Dissolved		<0.00010		mg/L		0.0001	21-SEP-10
	Thorium (Th)-Dissolved		<0.00010		mg/L		0.0001	21-SEP-10
	Tin (Sn)-Dissolved		<0.00020		mg/L		0.0002	21-SEP-10
	Titanium (Ti)-Dissolved		<0.00020		mg/L		0.0002	21-SEP-10
	Tungsten (W)-Dissolved		<0.00020		mg/L		0.0002	21-SEP-10
	Uranium (U)-Dissolved		<0.00010		mg/L		0.0001	21-SEP-10
	Vanadium (V)-Dissolved		<0.00020		mg/L		0.0002	21-SEP-10
	Zinc (Zn)-Dissolved		<0.0020		mg/L		0.002	21-SEP-10
	Zirconium (Zr)-Dissolved		<0.00040		mg/L		0.0004	21-SEP-10
Batch R1476963								
WG1172868-3 CCV								
	Cadmium (Cd)-Dissolved		102		%		90-110	23-SEP-10
	Copper (Cu)-Dissolved		104		%		90-110	23-SEP-10
	Silicon (Si)-Dissolved		97		%		90-110	23-SEP-10
	Tin (Sn)-Dissolved		98		%		90-110	23-SEP-10
	Vanadium (V)-Dissolved		104		%		90-110	23-SEP-10
WG1172868-1 CVS								
	Cadmium (Cd)-Dissolved		96		%		80-120	23-SEP-10
	Copper (Cu)-Dissolved		99		%		80-120	23-SEP-10
	Silicon (Si)-Dissolved		104		%		63-138	23-SEP-10
	Tin (Sn)-Dissolved		100		%		80-120	23-SEP-10
	Vanadium (V)-Dissolved		100		%		80-120	23-SEP-10
WG1172868-2 CVS								
	Cadmium (Cd)-Dissolved		100		%		80-120	23-SEP-10
	Copper (Cu)-Dissolved		100		%		80-120	23-SEP-10
	Silicon (Si)-Dissolved		103		%		63-138	23-SEP-10
	Tin (Sn)-Dissolved		98		%		80-120	23-SEP-10
	Vanadium (V)-Dissolved		102		%		80-120	23-SEP-10

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



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP								
	Water							
Batch	R1474113							
WG1171232-3	CCV							
Aluminum (Al)-Total			98		%		90-110	21-SEP-10
Antimony (Sb)-Total			99		%		90-110	21-SEP-10
Arsenic (As)-Total			98		%		90-110	21-SEP-10
Barium (Ba)-Total			95		%		90-110	21-SEP-10
Beryllium (Be)-Total			105		%		90-110	21-SEP-10
Bismuth (Bi)-Total			100		%		90-110	21-SEP-10
Boron (B)-Total			107		%		90-110	21-SEP-10
Cadmium (Cd)-Total			96		%		90-110	21-SEP-10
Calcium (Ca)-Total			99		%		90-110	21-SEP-10
Cesium (Cs)-Total			101		%		90-110	21-SEP-10
Chromium (Cr)-Total			96		%		90-110	21-SEP-10
Cobalt (Co)-Total			95		%		90-110	21-SEP-10
Copper (Cu)-Total			100		%		90-110	21-SEP-10
Iron (Fe)-Total			93		%		90-110	21-SEP-10
Lead (Pb)-Total			96		%		90-110	21-SEP-10
Lithium (Li)-Total			110		%		90-110	21-SEP-10
Magnesium (Mg)-Total			103		%		90-110	21-SEP-10
Manganese (Mn)-Total			99		%		90-110	21-SEP-10
Molybdenum (Mo)-Total			97		%		90-110	21-SEP-10
Nickel (Ni)-Total			97		%		90-110	21-SEP-10
Phosphorus (P)-Total			94		%		90-110	21-SEP-10
Potassium (K)-Total			97		%		90-110	21-SEP-10
Rubidium (Rb)-Total			95		%		90-110	21-SEP-10
Selenium (Se)-Total			96		%		90-110	21-SEP-10
Silicon (Si)-Total			100		%		90-110	21-SEP-10
Silver (Ag)-Total			97		%		90-110	21-SEP-10
Sodium (Na)-Total			101		%		90-110	21-SEP-10
Strontium (Sr)-Total			95		%		90-110	21-SEP-10
Tellurium (Te)-Total			98		%		90-110	21-SEP-10
Thallium (Tl)-Total			99		%		90-110	21-SEP-10
Thorium (Th)-Total			96		%		63-138	21-SEP-10
Tin (Sn)-Total			98		%		90-110	21-SEP-10
Titanium (Ti)-Total			100		%		90-110	21-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1474113							
WG1171232-3	CCV							
Tungsten (W)-Total			94		%		90-110	21-SEP-10
Uranium (U)-Total			92		%		90-110	21-SEP-10
Vanadium (V)-Total			100		%		90-110	21-SEP-10
Zinc (Zn)-Total			96		%		90-110	21-SEP-10
Zirconium (Zr)-Total			94		%		90-110	21-SEP-10
WG1171232-1	CVS							
Aluminum (Al)-Total			97		%		63-138	21-SEP-10
Antimony (Sb)-Total			98		%		63-138	21-SEP-10
Arsenic (As)-Total			100		%		63-138	21-SEP-10
Barium (Ba)-Total			99		%		63-138	21-SEP-10
Beryllium (Be)-Total			103		%		63-138	21-SEP-10
Bismuth (Bi)-Total			103		%		63-138	21-SEP-10
Boron (B)-Total			106		%		63-138	21-SEP-10
Cadmium (Cd)-Total			97		%		63-138	21-SEP-10
Calcium (Ca)-Total			101		%		63-138	21-SEP-10
Cesium (Cs)-Total			103		%		63-138	21-SEP-10
Chromium (Cr)-Total			99		%		63-138	21-SEP-10
Cobalt (Co)-Total			98		%		63-138	21-SEP-10
Copper (Cu)-Total			101		%		63-138	21-SEP-10
Iron (Fe)-Total			98		%		63-138	21-SEP-10
Lead (Pb)-Total			99		%		63-138	21-SEP-10
Lithium (Li)-Total			106		%		63-138	21-SEP-10
Magnesium (Mg)-Total			99		%		63-138	21-SEP-10
Manganese (Mn)-Total			101		%		63-138	21-SEP-10
Molybdenum (Mo)-Total			98		%		63-138	21-SEP-10
Nickel (Ni)-Total			102		%		63-138	21-SEP-10
Phosphorus (P)-Total			97		%		63-138	21-SEP-10
Potassium (K)-Total			102		%		63-138	21-SEP-10
Rubidium (Rb)-Total			97		%		63-138	21-SEP-10
Selenium (Se)-Total			100		%		63-138	21-SEP-10
Silicon (Si)-Total			97		%		63-138	21-SEP-10
Silver (Ag)-Total			97		%		63-138	21-SEP-10
Sodium (Na)-Total			98		%		63-138	21-SEP-10
Strontium (Sr)-Total			94		%		63-138	21-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1474113							
WG1171232-1 CVS								
Tellurium (Te)-Total			97		%		63-138	21-SEP-10
Thallium (Tl)-Total			102		%		63-138	21-SEP-10
Thorium (Th)-Total			101		%		63-138	21-SEP-10
Tin (Sn)-Total			96		%		63-138	21-SEP-10
Titanium (Ti)-Total			97		%		63-138	21-SEP-10
Tungsten (W)-Total			95		%		63-138	21-SEP-10
Uranium (U)-Total			94		%		63-138	21-SEP-10
Vanadium (V)-Total			101		%		63-138	21-SEP-10
Zinc (Zn)-Total			101		%		63-138	21-SEP-10
Zirconium (Zr)-Total			94		%		63-138	21-SEP-10
WG1171232-2 CVS								
Aluminum (Al)-Total			105		%		63-138	21-SEP-10
Antimony (Sb)-Total			100		%		63-138	21-SEP-10
Arsenic (As)-Total			102		%		63-138	21-SEP-10
Barium (Ba)-Total			101		%		63-138	21-SEP-10
Beryllium (Be)-Total			105		%		63-138	21-SEP-10
Bismuth (Bi)-Total			109		%		63-138	21-SEP-10
Boron (B)-Total			108		%		63-138	21-SEP-10
Cadmium (Cd)-Total			104		%		63-138	21-SEP-10
Calcium (Ca)-Total			103		%		63-138	21-SEP-10
Cesium (Cs)-Total			110		%		63-138	21-SEP-10
Chromium (Cr)-Total			100		%		63-138	21-SEP-10
Cobalt (Co)-Total			102		%		63-138	21-SEP-10
Copper (Cu)-Total			103		%		63-138	21-SEP-10
Iron (Fe)-Total			103		%		63-138	21-SEP-10
Lead (Pb)-Total			103		%		63-138	21-SEP-10
Lithium (Li)-Total			108		%		63-138	21-SEP-10
Magnesium (Mg)-Total			101		%		63-138	21-SEP-10
Manganese (Mn)-Total			107		%		63-138	21-SEP-10
Molybdenum (Mo)-Total			104		%		63-138	21-SEP-10
Nickel (Ni)-Total			101		%		63-138	21-SEP-10
Phosphorus (P)-Total			100		%		63-138	21-SEP-10
Potassium (K)-Total			102		%		63-138	21-SEP-10
Rubidium (Rb)-Total			107		%		63-138	21-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1474113							
WG1171232-2	CVS							
Selenium (Se)-Total			100		%		63-138	21-SEP-10
Silicon (Si)-Total			103		%		63-138	21-SEP-10
Silver (Ag)-Total			102		%		63-138	21-SEP-10
Sodium (Na)-Total			101		%		63-138	21-SEP-10
Strontium (Sr)-Total			104		%		63-138	21-SEP-10
Tellurium (Te)-Total			98		%		63-138	21-SEP-10
Thallium (Tl)-Total			105		%		63-138	21-SEP-10
Thorium (Th)-Total			102		%		63-138	21-SEP-10
Tin (Sn)-Total			103		%		63-138	21-SEP-10
Titanium (Ti)-Total			98		%		63-138	21-SEP-10
Tungsten (W)-Total			101		%		63-138	21-SEP-10
Uranium (U)-Total			101		%		63-138	21-SEP-10
Vanadium (V)-Total			108		%		63-138	21-SEP-10
Zinc (Zn)-Total			100		%		63-138	21-SEP-10
Zirconium (Zr)-Total			105		%		63-138	21-SEP-10
WG1170513-4		WG1170513-3						
Aluminum (Al)-Total		0.0696	0.0716		mg/L	2.8	20	21-SEP-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Arsenic (As)-Total		0.00053	0.00053	J	mg/L	0.00000	0.0008	21-SEP-10
Barium (Ba)-Total		0.0125	0.0125		mg/L	0.36	20	21-SEP-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	21-SEP-10
Cadmium (Cd)-Total		0.000011	0.000010	J	mg/L	0.000001	0.00004	21-SEP-10
Calcium (Ca)-Total		37.1	35.9		mg/L	3.1	20	21-SEP-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Copper (Cu)-Total		0.00087	0.00068	J	mg/L	0.00020	0.0008	21-SEP-10
Iron (Fe)-Total		0.492	0.478		mg/L	2.8	20	21-SEP-10
Lead (Pb)-Total		0.000137	0.000137	J	mg/L	0.000000	0.00036	21-SEP-10
Lithium (Li)-Total		0.0026	0.0022	J	mg/L	0.0004	0.008	21-SEP-10
Magnesium (Mg)-Total		23.0	22.1		mg/L	4.3	20	21-SEP-10



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 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1474113							
WG1170513-4	DUP	WG1170513-3						
Manganese (Mn)-Total		0.0542	0.0529		mg/L	2.4	20	21-SEP-10
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	21-SEP-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	21-SEP-10
Potassium (K)-Total		0.762	0.734		mg/L	3.7	20	21-SEP-10
Rubidium (Rb)-Total		0.00104	0.00107	J	mg/L	0.00003	0.0008	21-SEP-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Silicon (Si)-Total		3.29	3.23		mg/L	1.6	20	21-SEP-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Sodium (Na)-Total		1.24	1.18		mg/L	4.4	20	21-SEP-10
Strontium (Sr)-Total		0.0209	0.0214		mg/L	2.2	20	21-SEP-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	21-SEP-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Titanium (Ti)-Total		0.00267	0.00259		mg/L	3.3	20	21-SEP-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Vanadium (V)-Total		0.00024	0.00023	J	mg/L	0.00001	0.0008	21-SEP-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	21-SEP-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	21-SEP-10
WG1170513-6	DUP	WG1170513-5						
Aluminum (Al)-Total		0.0612	0.0580		mg/L	5.3	20	21-SEP-10
Antimony (Sb)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Arsenic (As)-Total		0.00069	0.00069	J	mg/L	0.00000	0.0008	21-SEP-10
Barium (Ba)-Total		0.0111	0.0106		mg/L	3.8	20	21-SEP-10
Beryllium (Be)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Bismuth (Bi)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	21-SEP-10
Cadmium (Cd)-Total		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	21-SEP-10
Calcium (Ca)-Total		17.6	17.1		mg/L	2.8	20	21-SEP-10
Cesium (Cs)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Chromium (Cr)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1474113							
WG1170513-6	DUP	WG1170513-5						
Cobalt (Co)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Copper (Cu)-Total		0.00060	0.00066	J	mg/L	0.00006	0.0008	21-SEP-10
Iron (Fe)-Total		0.144	0.139	J	mg/L	0.006	0.08	21-SEP-10
Lead (Pb)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	21-SEP-10
Lithium (Li)-Total		0.0030	0.0028	J	mg/L	0.0001	0.008	21-SEP-10
Magnesium (Mg)-Total		9.77	9.56		mg/L	2.2	20	21-SEP-10
Manganese (Mn)-Total		0.0281	0.0273		mg/L	3.0	20	21-SEP-10
Molybdenum (Mo)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Nickel (Ni)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	21-SEP-10
Phosphorus (P)-Total		<0.20	<0.20	RPD-NA	mg/L	N/A	20	21-SEP-10
Potassium (K)-Total		1.20	1.16		mg/L	2.9	20	21-SEP-10
Rubidium (Rb)-Total		0.00134	0.00132	J	mg/L	0.00002	0.0008	21-SEP-10
Selenium (Se)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Silicon (Si)-Total		1.45	1.43		mg/L	1.0	20	21-SEP-10
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Sodium (Na)-Total		2.11	2.03		mg/L	3.6	20	21-SEP-10
Strontium (Sr)-Total		0.0328	0.0324		mg/L	1.3	20	21-SEP-10
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Thallium (Tl)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	26	21-SEP-10
Tin (Sn)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	21-SEP-10
Titanium (Ti)-Total		0.00315	0.00240	G	mg/L	27	20	21-SEP-10
Tungsten (W)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	21-SEP-10
Uranium (U)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	21-SEP-10
Vanadium (V)-Total		0.00035	0.00033	J	mg/L	0.00002	0.0008	21-SEP-10
Zinc (Zn)-Total		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	21-SEP-10
Zirconium (Zr)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	21-SEP-10
WG1170513-2	LCS							
Aluminum (Al)-Total			106		%		80-120	21-SEP-10
Antimony (Sb)-Total			105		%		80-120	21-SEP-10
Arsenic (As)-Total			104		%		80-120	21-SEP-10
Barium (Ba)-Total			103		%		80-120	21-SEP-10
Beryllium (Be)-Total			107		%		80-120	21-SEP-10



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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILLOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1474113							
WG1170513-2	LCS							
Bismuth (Bi)-Total			109		%		80-120	21-SEP-10
Boron (B)-Total			114		%		80-120	21-SEP-10
Cadmium (Cd)-Total			101		%		80-120	21-SEP-10
Calcium (Ca)-Total			105		%		80-120	21-SEP-10
Cesium (Cs)-Total			106		%		80-120	21-SEP-10
Chromium (Cr)-Total			105		%		80-120	21-SEP-10
Cobalt (Co)-Total			104		%		80-120	21-SEP-10
Copper (Cu)-Total			103		%		80-120	21-SEP-10
Iron (Fe)-Total			101		%		80-120	21-SEP-10
Lead (Pb)-Total			101		%		80-120	21-SEP-10
Lithium (Li)-Total			108		%		80-120	21-SEP-10
Magnesium (Mg)-Total			105		%		80-120	21-SEP-10
Manganese (Mn)-Total			105		%		80-120	21-SEP-10
Molybdenum (Mo)-Total			104		%		80-120	21-SEP-10
Nickel (Ni)-Total			99		%		80-120	21-SEP-10
Phosphorus (P)-Total			106		%		80-120	21-SEP-10
Potassium (K)-Total			103		%		80-120	21-SEP-10
Rubidium (Rb)-Total			105		%		80-120	21-SEP-10
Selenium (Se)-Total			103		%		80-120	21-SEP-10
Silicon (Si)-Total			115		%		80-120	21-SEP-10
Silver (Ag)-Total			102		%		80-120	21-SEP-10
Sodium (Na)-Total			107		%		80-120	21-SEP-10
Strontium (Sr)-Total			100		%		80-120	21-SEP-10
Tellurium (Te)-Total			103		%		80-120	21-SEP-10
Thallium (Tl)-Total			110		%		80-120	21-SEP-10
Thorium (Th)-Total			102		%		63-138	21-SEP-10
Tin (Sn)-Total			104		%		80-120	21-SEP-10
Titanium (Ti)-Total			105		%		80-120	21-SEP-10
Tungsten (W)-Total			98		%		80-120	21-SEP-10
Uranium (U)-Total			98		%		80-120	21-SEP-10
Vanadium (V)-Total			108		%		80-120	21-SEP-10
Zinc (Zn)-Total			103		%		80-120	21-SEP-10
Zirconium (Zr)-Total			102		%		80-120	21-SEP-10

WG1170513-1 MB



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WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-L-MS-WP		Water						
Batch	R1474113							
WG1170513-1 MB								
Aluminum (Al)-Total			<0.0050		mg/L		0.005	21-SEP-10
Antimony (Sb)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Arsenic (As)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Barium (Ba)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Beryllium (Be)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Bismuth (Bi)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Boron (B)-Total			<0.010		mg/L		0.01	21-SEP-10
Cadmium (Cd)-Total			<0.000010		mg/L		0.00001	21-SEP-10
Calcium (Ca)-Total			<0.10		mg/L		0.1	21-SEP-10
Cesium (Cs)-Total			<0.00010		mg/L		0.0001	21-SEP-10
Chromium (Cr)-Total			<0.0010		mg/L		0.001	21-SEP-10
Cobalt (Co)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Copper (Cu)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Iron (Fe)-Total			<0.020		mg/L		0.02	21-SEP-10
Lead (Pb)-Total			<0.000090		mg/L		0.00009	21-SEP-10
Lithium (Li)-Total			<0.0020		mg/L		0.002	21-SEP-10
Magnesium (Mg)-Total			<0.010		mg/L		0.01	21-SEP-10
Manganese (Mn)-Total			<0.00030		mg/L		0.0003	21-SEP-10
Molybdenum (Mo)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Nickel (Ni)-Total			<0.0020		mg/L		0.002	21-SEP-10
Phosphorus (P)-Total			<0.20		mg/L		0.2	21-SEP-10
Potassium (K)-Total			<0.020		mg/L		0.02	21-SEP-10
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Selenium (Se)-Total			<0.0010		mg/L		0.001	21-SEP-10
Silicon (Si)-Total			<0.050		mg/L		0.05	21-SEP-10
Silver (Ag)-Total			<0.00010		mg/L		0.0001	21-SEP-10
Sodium (Na)-Total			<0.030		mg/L		0.03	21-SEP-10
Strontium (Sr)-Total			<0.00010		mg/L		0.0001	21-SEP-10
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Thallium (Tl)-Total			<0.00010		mg/L		0.0001	21-SEP-10
Thorium (Th)-Total			<0.00010		mg/L		0.0001	21-SEP-10
Tin (Sn)-Total			<0.00020		mg/L		0.0002	21-SEP-10
Titanium (Ti)-Total			<0.00020		mg/L		0.0002	21-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
 99 COMMERCE DRIVE
 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
N-TOTKJ-WP								
	Water							
Batch	R1474745							
WG1170105-1 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	22-SEP-10
WG1170105-5 MB								
Total Kjeldahl Nitrogen			<0.20		mg/L		0.2	22-SEP-10
WG1170105-3 MS		L933298-1						
Total Kjeldahl Nitrogen			104		%		70-130	22-SEP-10
WG1170105-6 MS		L933298-10						
Total Kjeldahl Nitrogen			106		%		70-130	22-SEP-10
NH3-COL-WP								
	Water							
Batch	R1476930							
WG1172857-3 CCV								
Ammonia as N			105		%		63-138	23-SEP-10
WG1172857-4 DUP		L933365-1						
Ammonia as N		1.87	1.88		mg/L	0.26	20	24-SEP-10
WG1172857-2 LCS								
Ammonia as N			95		%		85-115	23-SEP-10
WG1172857-1 MB								
Ammonia as N			<0.050		mg/L		0.05	23-SEP-10
WG1172857-5 MS		L933365-1						
Ammonia as N			N/A	MS-B	%		-	24-SEP-10
P-TOTAL-WP								
	Water							
Batch	R1473947							
WG1170564-1 CCV								
Phosphorus, Total			99		%		90-110	22-SEP-10
WG1170564-2 CCV								
Phosphorus, Total			93		%		90-110	22-SEP-10
WG1170059-10 CVS								
Phosphorus, Total			108		%		80-120	22-SEP-10
WG1170059-11 CVS								
Phosphorus, Total			102		%		80-120	22-SEP-10
WG1170059-2 CVS								
Phosphorus, Total			100		%		80-120	22-SEP-10
WG1170059-3 CVS								
Phosphorus, Total			100		%		80-120	22-SEP-10
WG1170059-6 CVS								
Phosphorus, Total			101		%		80-120	22-SEP-10
WG1170059-7 CVS								
Phosphorus, Total			109		%		80-120	22-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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 WINNIPEG MB R3P 0Y7

Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
P-TOTAL-WP		Water						
Batch	R1473947							
WG1170059-4	DUP	L933218-5						
Phosphorus, Total		0.232	0.237		mg/L	2.1	20	22-SEP-10
WG1170059-8	DUP	L933218-8						
Phosphorus, Total		2.71	2.70		mg/L	0.37	20	22-SEP-10
WG1170059-1	MB							
Phosphorus, Total			<0.010		mg/L		0.01	22-SEP-10
WG1170059-13	MS	L933298-11						
Phosphorus, Total			114		%		70-130	22-SEP-10
PH-WP		Water						
Batch	R1472684							
WG1170409-4	CCV							
pH			101		%		90-110	20-SEP-10
WG1170409-3	CVS							
pH			100		%		99-101	20-SEP-10
WG1170409-7	DUP	L933294-3						
pH		7.34	7.39		pH units	0.67	5	20-SEP-10
WG1170409-8	DUP	L933298-7						
pH		8.03	8.04		pH units	0.11	5	20-SEP-10
SILICATE-COL-VA		Water						
Batch	R1475808							
WG1172013-10	CRM	VA-SIO2-CSPK10						
Silicate (as SIO2)			104		%		85-115	23-SEP-10
WG1172013-3	CRM	VA-SIO2-CSPK1						
Silicate (as SIO2)			111		%		85-115	23-SEP-10
WG1172013-4	CRM	VA-SIO2-CSPK10						
Silicate (as SIO2)			101		%		85-115	23-SEP-10
WG1172013-7	CRM	VA-SIO2-CSPK1						
Silicate (as SIO2)			110		%		85-115	23-SEP-10
WG1172013-5	DUP	L934579-7						
Silicate (as SIO2)		7.4	7.0	J	mg/L	0.5	4	23-SEP-10
WG1172013-8	DUP	L933298-11						
Silicate (as SIO2)		3.4	3.3	J	mg/L	0.1	4	23-SEP-10
WG1172013-2	MB							
Silicate (as SIO2)			<1.0		mg/L		1	23-SEP-10
WG1172013-6	MB							
Silicate (as SIO2)			<1.0		mg/L		1	23-SEP-10
WG1172013-9	MB							
Silicate (as SIO2)			<1.0		mg/L		1	23-SEP-10



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Client: AECOM Canada Ltd. (Winnipeg)
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Contact: CLIFF SAMOILOFF

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SOLIDS-TDS-WP		Water						
Batch	R1478386							
WG1172615-2	CVS							
Total Dissolved Solids			102		%		85-115	24-SEP-10
WG1172615-3	DUP	L935387-1						
Total Dissolved Solids		1640	1930		mg/L	16	20	24-SEP-10
WG1172615-1	MB							
Total Dissolved Solids			<5.0		mg/L		5	24-SEP-10
SOLIDS-TOTSUS-WP		Water						
Batch	R1478386							
WG1172615-2	CVS							
Total Suspended Solids			98		%		85-115	24-SEP-10
WG1172615-3	DUP	L935387-1						
Total Suspended Solids		640	630		mg/L	1.6	20	24-SEP-10
WG1172615-4	DUP	L932937-1						
Total Suspended Solids		350	425		mg/L	19	20	24-SEP-10
WG1172615-5	DUP	L932950-1						
Total Suspended Solids		12500	12800		mg/L	2.9	20	24-SEP-10
WG1172615-1	MB							
Total Suspended Solids			<5.0		mg/L		5	24-SEP-10
TURBIDITY-WP		Water						
Batch	R1472551							
WG1170338-3	CCV							
Turbidity			105		%		90-110	20-SEP-10
WG1170338-4	CCV							
Turbidity			104		%		90-110	20-SEP-10
WG1170338-1	CVS							
Turbidity			101		%		63-138	20-SEP-10
WG1170338-2	CVS							
Turbidity			99		%		63-138	20-SEP-10
WG1170338-6	DUP	L933298-11						
Turbidity		4.46	4.28		NTU	4.1	15	20-SEP-10
WG1170338-5	LCS							
Turbidity			92		%		85-115	20-SEP-10

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Legend:

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

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
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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Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
Turbidity							
	5	18-SEP-10 10:00	20-SEP-10 10:50	48	49	hours	EHTL
	9	18-SEP-10 10:00	20-SEP-10 10:50	48	49	hours	EHTL
pH							
	1	18-SEP-10 11:00	20-SEP-10 11:42	0.25	49	hours	EHTR-FM
	2	18-SEP-10 13:00	20-SEP-10 11:42	0.25	47	hours	EHTR-FM
	3	18-SEP-10 14:00	20-SEP-10 11:42	0.25	46	hours	EHTR-FM
	4	18-SEP-10 16:00	20-SEP-10 11:42	0.25	44	hours	EHTR-FM
	5	18-SEP-10 10:00	20-SEP-10 11:42	0.25	50	hours	EHTR-FM
	6	18-SEP-10 14:00	20-SEP-10 11:42	0.25	46	hours	EHTR-FM
	7	18-SEP-10 14:00	20-SEP-10 11:42	0.25	46	hours	EHTR-FM
	8	18-SEP-10 14:00	20-SEP-10 11:42	0.25	46	hours	EHTR-FM
	9	18-SEP-10 10:00	20-SEP-10 11:42	0.25	50	hours	EHTR-FM
	10	18-SEP-10 13:00	20-SEP-10 11:42	0.25	47	hours	EHTR-FM
	11	18-SEP-10 11:00	20-SEP-10 11:42	0.25	49	hours	EHTR-FM
Anions and Nutrients							
Anions scan (IC)							
	1	18-SEP-10 11:00	20-SEP-10 14:29	48	52	hours	EHTL
	2	18-SEP-10 13:00	20-SEP-10 14:29	48	49	hours	EHTL
	5	18-SEP-10 10:00	20-SEP-10 14:29	48	53	hours	EHTL
	9	18-SEP-10 10:00	20-SEP-10 11:50	48	50	hours	EHTL
	11	18-SEP-10 11:00	20-SEP-10 11:50	48	49	hours	EHTL
Bromide							
	1	18-SEP-10 11:00	20-SEP-10 14:29	48	52	hours	EHTL
	2	18-SEP-10 13:00	20-SEP-10 14:29	48	49	hours	EHTL
	5	18-SEP-10 10:00	20-SEP-10 14:29	48	53	hours	EHTL
	9	18-SEP-10 10:00	20-SEP-10 11:50	48	50	hours	EHTL
	11	18-SEP-10 11:00	20-SEP-10 11:50	48	49	hours	EHTL
Organic / Inorganic Carbon							
Dissolved Organic Carbon							
	1	18-SEP-10 11:00	18-OCT-10 22:00	28	30	days	EHT
	3	18-SEP-10 14:00	18-OCT-10 22:44	28	30	days	EHT
	4	18-SEP-10 16:00	18-OCT-10 23:35	28	30	days	EHT
	7	18-SEP-10 14:00	19-OCT-10 00:19	28	30	days	EHT
	8	18-SEP-10 14:00	19-OCT-10 01:04	28	30	days	EHT
Total Organic Carbon							
	1	18-SEP-10 11:00	18-OCT-10 21:46	28	30	days	EHT
	3	18-SEP-10 14:00	18-OCT-10 22:30	28	30	days	EHT
	4	18-SEP-10 16:00	18-OCT-10 23:14	28	30	days	EHT
	7	18-SEP-10 14:00	18-OCT-10 23:50	28	30	days	EHT
	8	18-SEP-10 14:00	19-OCT-10 00:34	28	30	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 L933298 were received on 20-SEP-10 09:10.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government

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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.

