

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|----------|-----------|-----------|----------|
| L1060058-4 FLB-01 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Magnesium (Mg)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | <0.020 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | <0.050 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | <0.020 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | <0.10 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| Phaeophytin a | <0.10 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 4.5 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 5.5 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 1.38 | | 0.40 | umhos/cm | | 19-SEP-11 | R2254103 |
| pH | | | | | | | |
| pH | 6.31 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |

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

Reference Information

Qualifiers for Individual Samples Listed:

| Sample Number | Client ID | Qualifier | Description |
|---------------|-----------|-----------|---|
| L1060058-1 | TRB-06 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060058-2 | TRB-03 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060058-3 | TRB-04 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060058-4 | FLB-01 | SFPL | Sample was Filtered and Preserved at the laboratory |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|--|---|
| ACY-L-8.3-PCT-WP | Water | Acidity | APHA 2310 B |
| Acidity is measured using auto-titration with sodium hydroxide to an endpoint of pH 8.3 | | | |
| ALK-TOT-WP | Water | Alkalinity | APHA 2320B |
| Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically. | | | |
| BR-IC-WP | Water | Bromide | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| C-DIS-ORG-WP | Water | Dissolved Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| C-TOT-ORG-WP | Water | Total Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| CHL,PHEO-FLUORO-WP | Water | Chlorophyll a, Pheophytin by fluorometry | EPA 445.0 |
| Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification. | | | |
| CL-IC-WP | Water | Chloride | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| COLOUR-TRUE-WP | Water | Colour, True | APHA 2120C |
| True colour in water is analyzed by discrete analyzer using the platinum-cobalt colourimetric method. Colour is pH dependant; unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit. | | | |
| CONSULT-BOD-CBOD-WP | Water | Carbonaceous BOD | APHA 5210 B-5 day Incub.-O ₂ electrode |
| A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis. | | | |
| EC-WP | Water | Conductivity | APHA 2510B |
| Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed | | | |

Reference Information

Test Method References:

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

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|------------------------|-----------------------|
| Chromatography". | | | |
| SOLIDS-TDS-WP | Water | Total Dissolved Solids | APHA 2540C |
| The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature. | | | |
| SOLIDS-TOTSUS-WP | Water | Total Suspended Solids | APHA 2540D |
| The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C. | | | |
| TURBIDITY-WP | Water | Turbidity | APHA 2130B (modified) |
| Turbidity in aqueous matrices is determined by the nephelometric method. | | | |

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

*mg/kg - milligrams per kilogram based on dry weight of sample
 mg/kg wwt - milligrams per kilogram based on wet weight of sample
 mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
 mg/L - unit of concentration based on volume, parts per million.*

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|-----------------|--------------------|--------|-----------|-------|------|--------|-----------|
| ACY-L-8.3-PCT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256906 | | | | | | | |
| WG1355010-3 | DUP | L1060044-1 | | | | | | |
| Acidity (as CaCO3) | | 2.8 | 2.7 | | mg/L | 6.0 | 25 | 21-SEP-11 |
| WG1355010-4 | DUP | L1060061-1 | | | | | | |
| Acidity (as CaCO3) | | 1.8 | 1.8 | | mg/L | 0.13 | 25 | 21-SEP-11 |
| WG1355010-5 | DUP | L1060062-5 | | | | | | |
| Acidity (as CaCO3) | | 1.0 | 1.1 | | mg/L | 4.0 | 25 | 21-SEP-11 |
| WG1355010-6 | DUP | L1060063-7 | | | | | | |
| Acidity (as CaCO3) | | 1.5 | 1.5 | | mg/L | 2.4 | 25 | 21-SEP-11 |
| WG1355010-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 106 | | % | | 70-130 | 21-SEP-11 |
| WG1355010-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | <1.0 | | mg/L | | 1 | 21-SEP-11 |
| ALK-TOT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-3 | CVS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 103 | | % | | 85-115 | 17-SEP-11 |
| WG1351525-4 | DUP | L1059370-11 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 5.1 | 5.9 | | mg/L | 14 | 20 | 17-SEP-11 |
| Bicarbonate (HCO3) | | 6.3 | 7.2 | | mg/L | 14 | 25 | 17-SEP-11 |
| Carbonate (CO3) | | <0.60 | <0.60 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| Hydroxide (OH) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 246 | 247 | | mg/L | 0.25 | 20 | 17-SEP-11 |
| Bicarbonate (HCO3) | | 274 | 270 | | mg/L | 1.3 | 25 | 17-SEP-11 |
| Carbonate (CO3) | | 9.36 | 11.5 | | mg/L | 20 | 25 | 17-SEP-11 |
| Hydroxide (OH) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| BR-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Bromide (Br) | | | 96 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Bromide (Br) | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| C-DIS-ORG-WP | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| C-DIS-ORG-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255160 | | | | | | | |
| WG1353005-2 | CVS | | | | | | | |
| Dissolved Organic Carbon | | | 99 | | % | | 80-120 | 20-SEP-11 |
| WG1352998-2 | DUP | L1060059-1 | | | | | | |
| Dissolved Organic Carbon | | 15.5 | 15.3 | | mg/L | 1.3 | 20 | 21-SEP-11 |
| WG1352998-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <1.0 | | mg/L | | 1 | 20-SEP-11 |
| Batch | R2255889 | | | | | | | |
| WG1353838-2 | CVS | | | | | | | |
| Dissolved Organic Carbon | | | 101 | | % | | 80-120 | 21-SEP-11 |
| Batch | R2256631 | | | | | | | |
| WG1354641-2 | CVS | | | | | | | |
| Dissolved Organic Carbon | | | 102 | | % | | 80-120 | 22-SEP-11 |
| C-TOT-ORG-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255160 | | | | | | | |
| WG1353005-2 | CVS | | | | | | | |
| Total Organic Carbon | | | 99 | | % | | 80-120 | 20-SEP-11 |
| WG1353005-1 | MB | | | | | | | |
| Total Organic Carbon | | | <1.0 | | mg/L | | 1 | 20-SEP-11 |
| Batch | R2255889 | | | | | | | |
| WG1353838-2 | CVS | | | | | | | |
| Total Organic Carbon | | | 101 | | % | | 80-120 | 21-SEP-11 |
| WG1353838-3 | DUP | L1060061-1 | | | | | | |
| Total Organic Carbon | | 29.5 | 29.6 | | mg/L | 0.18 | 20 | 21-SEP-11 |
| WG1353838-1 | MB | | | | | | | |
| Total Organic Carbon | | | <1.0 | | mg/L | | 1 | 21-SEP-11 |
| Batch | R2256631 | | | | | | | |
| WG1354641-2 | CVS | | | | | | | |
| Total Organic Carbon | | | 101 | | % | | 80-120 | 22-SEP-11 |
| WG1354641-1 | MB | | | | | | | |
| Total Organic Carbon | | | <1.0 | | mg/L | | 1 | 22-SEP-11 |
| CHL,PHEO-FLUORO-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256760 | | | | | | | |
| WG1354254-1 | CVS | | | | | | | |
| Chlorophyll a | | | 83 | | % | | 65-135 | 23-SEP-11 |
| WG1354254-2 | CVS | | | | | | | |
| Chlorophyll a | | | 115 | | | | 65-135 | |



Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| CHL,PHEO-FLUORO-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256760 | | | | | | | |
| WG1354254-2 | CVS | | | | | | | |
| Chlorophyll a | | | 115 | | % | | 65-135 | 23-SEP-11 |
| WG1354197-2 | DUP | L1059720-3 | | | | | | |
| Chlorophyll a | | 26.9 | 26.2 | | ug/L | 2.8 | 35 | 23-SEP-11 |
| Phaeophytin a | | 9.76 | 10.7 | | ug/L | 9.4 | 35 | 23-SEP-11 |
| WG1354197-3 | DUP | L1060060-1 | | | | | | |
| Chlorophyll a | | 10.4 | 11.4 | | ug/L | 8.7 | 35 | 23-SEP-11 |
| Phaeophytin a | | 2.88 | 3.28 | | ug/L | 13 | 35 | 23-SEP-11 |
| WG1354197-1 | MB | | | | | | | |
| Chlorophyll a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| Phaeophytin a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| CL-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Chloride | | 1.58 | 1.58 | | mg/L | 0.22 | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Chloride | | | 100 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Chloride | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Chloride | | | 107 | | % | | 75-125 | 19-SEP-11 |
| COLOUR-TRUE-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253828 | | | | | | | |
| WG1351569-3 | DUP | L1059499-2 | | | | | | |
| Colour, True | | 23.3 | 24.9 | | CU | 6.6 | 400 | 17-SEP-11 |
| WG1351569-4 | DUP | L1060060-2 | | | | | | |
| Colour, True | | 27.5 | 32.7 | | CU | 17 | 20 | 17-SEP-11 |
| WG1351569-2 | LCS | | | | | | | |
| Colour, True | | | 100 | | % | | 85-115 | 17-SEP-11 |
| WG1351569-1 | MB | | | | | | | |
| Colour, True | | | <5.0 | | CU | | 5 | 17-SEP-11 |
| CONSULT-BOD-CBOD-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255920 | | | | | | | |
| WG1351515-3 | DUP | L1060060-2 | | | | | | |
| WG1351515-4 | DUP | L1060062-7 | | | | | | |
| BOD Carbonaceous | | 2.0 | 2.1 | | mg/L | 4.9 | 400 | 22-SEP-11 |
| WG1351515-2 | IRM | 61-GG | | | | | | |



Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------------|--------|------------|-----------|-----------|----------|-----|---------|-----------|
| CONSULT-BOD-CBOD-WP Water | | | | | | | | |
| Batch R2255920 | | | | | | | | |
| WG1351515-2 | IRM | 61-GG | | | | | | |
| BOD Carbonaceous | | | 93 | | % | | 85-115 | 22-SEP-11 |
| WG1351515-1 | MB | | | | | | | |
| BOD Carbonaceous | | | <1.0 | | mg/L | | 1 | 22-SEP-11 |
| EC-WP Water | | | | | | | | |
| Batch R2254103 | | | | | | | | |
| WG1351828-1 | CVS | | | | | | | |
| Conductivity | | | 99 | | % | | 90-110 | 19-SEP-11 |
| WG1351828-2 | DUP | L1060058-2 | | | | | | |
| Conductivity | | 0.98 | 0.97 | | umhos/cm | 1.0 | 400 | 19-SEP-11 |
| F-IC-WP Water | | | | | | | | |
| Batch R2255553 | | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Fluoride | | | 101 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Fluoride | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| HG-D-CVAF-WP Water | | | | | | | | |
| Batch R2264510 | | | | | | | | |
| WG1363399-5 | DUP | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| WG1363399-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |
| WG1363399-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| WG1363406-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| WG1363399-6 | MS | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |

HG-T-CVAF-WP Water



Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|-----------|-----------|-------|------|---------|-----------|
| HG-T-CVAF-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2263097 | | | | | | | |
| WG1361800-3 | DUP | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | <0.000050 | <0.000050 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-5 | DUP | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | <0.000050 | 0.000070 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 100 | | % | | 80-120 | 30-SEP-11 |
| WG1361800-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000050 | | mg/L | | 0.00005 | 30-SEP-11 |
| WG1361800-4 | MS | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | | 93 | | % | | 70-130 | 30-SEP-11 |
| WG1361800-6 | MS | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | | 85 | | % | | 70-130 | 30-SEP-11 |
| MET-D-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 | DUP | WG1356177-3 | | | | | | |
| Aluminum (Al)-Dissolved | | 2.03 | 1.99 | | mg/L | 1.8 | 20 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | 1.02 | 1.01 | | mg/L | 1.2 | 20 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | 1.00 | 1.01 | | mg/L | 0.34 | 20 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | 0.256 | 0.252 | | mg/L | 1.3 | 20 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | 0.105 | 0.101 | | mg/L | 3.4 | 20 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | 1.02 | 1.03 | | mg/L | 0.20 | 20 | 23-SEP-11 |
| Boron (B)-Dissolved | | 1.03 | 1.00 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | 0.103 | 0.106 | | mg/L | 2.7 | 20 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | 0.0493 | 0.0489 | | mg/L | 0.70 | 20 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | 0.249 | 0.251 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | 0.257 | 0.256 | | mg/L | 0.20 | 20 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | 0.250 | 0.252 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | 1.00 | 1.01 | | mg/L | 0.49 | 20 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | 0.514 | 0.503 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | 0.263 | 0.254 | | mg/L | 3.7 | 20 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | 50.5 | 50.9 | | mg/L | 0.73 | 20 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | 0.247 | 0.252 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | 0.255 | 0.261 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | 0.513 | 0.520 | | mg/L | 1.4 | 20 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | 2.61 | 2.67 | | mg/L | 2.4 | 20 | 23-SEP-11 |



Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|---------|-----------|-------|------|--------|-----------|
| MET-D-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 | DUP | WG1356177-3 | | | | | | |
| Potassium (K)-Dissolved | | 51.8 | 50.9 | | mg/L | 1.8 | 20 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | 0.101 | 0.103 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | 1.01 | 1.01 | | mg/L | 0.29 | 20 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | 1.01 | 1.00 | | mg/L | 0.38 | 20 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | 0.108 | 0.113 | | mg/L | 4.5 | 20 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | 51.4 | 51.9 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | 0.254 | 0.262 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | 0.103 | 0.105 | | mg/L | 1.9 | 20 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | 1.04 | 1.03 | | mg/L | 1.3 | 20 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | 0.0988 | 0.101 | | mg/L | 2.2 | 25 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | 0.523 | 0.540 | | mg/L | 3.1 | 20 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | 0.252 | 0.258 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | 0.101 | 0.0999 | | mg/L | 1.0 | 20 | 23-SEP-11 |
| Uranium (U)-Dissolved | | 0.00518 | 0.00498 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | 0.511 | 0.519 | | mg/L | 1.6 | 20 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | 0.510 | 0.516 | | mg/L | 1.2 | 20 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | 0.0994 | 0.103 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| WG1356177-2 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Boron (B)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |



Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-2 LCS | | | | | | | | |
| Magnesium (Mg)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Potassium (K)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | 108 | | % | | 80-120 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Uranium (U)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| WG1356177-1 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Boron (B)-Dissolved | | | <0.010 | | mg/L | | 0.03 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | <0.000010 | | mg/L | | 0.0002 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | <0.0020 | | mg/L | | 0.002 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |



Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-1 | MB | | | | | | | |
| Copper (Cu)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | <0.10 | | mg/L | | 0.1 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | <0.000090 | | mg/L | | 0.001 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | <0.0020 | | mg/L | | 0.01 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | | <0.010 | | mg/L | | 0.05 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | <0.0010 | | mg/L | | 0.002 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | <0.10 | | mg/L | | 0.5 | 23-SEP-11 |
| Potassium (K)-Dissolved | | | <0.020 | | mg/L | | 0.1 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | <0.0010 | | mg/L | | 0.005 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | <0.050 | | mg/L | | 0.3 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | | <0.020 | | mg/L | | 0.05 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | | <0.00010 | | mg/L | | 0.005 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | | <0.00020 | | mg/L | | 0.0006 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Uranium (U)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | | <0.00040 | | mg/L | | 0.001 | 23-SEP-11 |
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2257881 | | | | | | | |
| WG1354038-2 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 95 | | % | | 80-120 | 22-SEP-11 |
| Antimony (Sb)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Arsenic (As)-Total | | | 100 | | % | | 80-120 | 22-SEP-11 |
| Barium (Ba)-Total | | | 100 | | % | | 80-120 | 22-SEP-11 |
| Beryllium (Be)-Total | | | 103 | | % | | 80-120 | 22-SEP-11 |



Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------|--------|-----------|-------|-----|--------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2257881 | | | | | | | |
| WG1354038-2 | LCS | | | | | | | |
| Beryllium (Be)-Total | | | 103 | | % | | 80-120 | 22-SEP-11 |
| Bismuth (Bi)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Boron (B)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Cadmium (Cd)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Calcium (Ca)-Total | | | 102 | | % | | 80-120 | 22-SEP-11 |
| Cesium (Cs)-Total | | | 95 | | % | | 80-120 | 22-SEP-11 |
| Chromium (Cr)-Total | | | 95 | | % | | 80-120 | 22-SEP-11 |
| Cobalt (Co)-Total | | | 101 | | % | | 80-120 | 22-SEP-11 |
| Copper (Cu)-Total | | | 96 | | % | | 80-120 | 22-SEP-11 |
| Iron (Fe)-Total | | | 95 | | % | | 80-120 | 22-SEP-11 |
| Lead (Pb)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Lithium (Li)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Magnesium (Mg)-Total | | | 100 | | % | | 80-120 | 22-SEP-11 |
| Manganese (Mn)-Total | | | 95 | | % | | 80-120 | 22-SEP-11 |
| Molybdenum (Mo)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Nickel (Ni)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Phosphorus (P)-Total | | | 100 | | % | | 80-120 | 22-SEP-11 |
| Potassium (K)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Rubidium (Rb)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Selenium (Se)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Silicon (Si)-Total | | | 96 | | % | | 80-120 | 22-SEP-11 |
| Silver (Ag)-Total | | | 104 | | % | | 80-120 | 22-SEP-11 |
| Sodium (Na)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Strontium (Sr)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Tellurium (Te)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Thallium (Tl)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Thorium (Th)-Total | | | 97 | | % | | 70-130 | 22-SEP-11 |
| Tin (Sn)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Titanium (Ti)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Tungsten (W)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Uranium (U)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Vanadium (V)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Zinc (Zn)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |



Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2257881 | | | | | | | |
| WG1354038-2 | LCS | | | | | | | |
| Zirconium (Zr)-Total | | | 100 | | % | | 80-120 | 22-SEP-11 |
| WG1354038-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | <0.0050 | | mg/L | | 0.02 | 22-SEP-11 |
| Antimony (Sb)-Total | | | <0.00020 | | mg/L | | 0.001 | 22-SEP-11 |
| Arsenic (As)-Total | | | <0.00020 | | mg/L | | 0.001 | 22-SEP-11 |
| Barium (Ba)-Total | | | <0.00020 | | mg/L | | 0.0005 | 22-SEP-11 |
| Beryllium (Be)-Total | | | <0.00020 | | mg/L | | 0.001 | 22-SEP-11 |
| Bismuth (Bi)-Total | | | <0.00020 | | mg/L | | 0.0005 | 22-SEP-11 |
| Boron (B)-Total | | | <0.010 | | mg/L | | 0.03 | 22-SEP-11 |
| Cadmium (Cd)-Total | | | <0.000010 | | mg/L | | 0.0002 | 22-SEP-11 |
| Calcium (Ca)-Total | | | <0.10 | | mg/L | | 0.2 | 22-SEP-11 |
| Cesium (Cs)-Total | | | <0.00010 | | mg/L | | 0.0005 | 22-SEP-11 |
| Chromium (Cr)-Total | | | <0.0010 | | mg/L | | 0.002 | 22-SEP-11 |
| Cobalt (Co)-Total | | | <0.00020 | | mg/L | | 0.0005 | 22-SEP-11 |
| Copper (Cu)-Total | | | <0.00020 | | mg/L | | 0.002 | 22-SEP-11 |
| Iron (Fe)-Total | | | <0.10 | | mg/L | | 0.1 | 22-SEP-11 |
| Lead (Pb)-Total | | | <0.000090 | | mg/L | | 0.001 | 22-SEP-11 |
| Lithium (Li)-Total | | | <0.0020 | | mg/L | | 0.002 | 22-SEP-11 |
| Magnesium (Mg)-Total | | | <0.010 | | mg/L | | 0.05 | 22-SEP-11 |
| Manganese (Mn)-Total | | | <0.00030 | | mg/L | | 0.001 | 22-SEP-11 |
| Molybdenum (Mo)-Total | | | <0.00020 | | mg/L | | 0.0005 | 22-SEP-11 |
| Nickel (Ni)-Total | | | <0.0020 | | mg/L | | 0.002 | 22-SEP-11 |
| Phosphorus (P)-Total | | | <0.20 | | mg/L | | 0.5 | 22-SEP-11 |
| Potassium (K)-Total | | | <0.020 | | mg/L | | 0.1 | 22-SEP-11 |
| Rubidium (Rb)-Total | | | <0.00020 | | mg/L | | 0.0005 | 22-SEP-11 |
| Selenium (Se)-Total | | | <0.0010 | | mg/L | | 0.005 | 22-SEP-11 |
| Silicon (Si)-Total | | | <0.050 | | mg/L | | 0.3 | 22-SEP-11 |
| Silver (Ag)-Total | | | <0.00010 | | mg/L | | 0.001 | 22-SEP-11 |
| Sodium (Na)-Total | | | <0.030 | | mg/L | | 0.05 | 22-SEP-11 |
| Strontium (Sr)-Total | | | <0.00010 | | mg/L | | 0.0005 | 22-SEP-11 |
| Tellurium (Te)-Total | | | <0.00020 | | mg/L | | 0.001 | 22-SEP-11 |
| Thallium (Tl)-Total | | | <0.00010 | | mg/L | | 0.005 | 22-SEP-11 |
| Thorium (Th)-Total | | | <0.00010 | | mg/L | | 0.0001 | 22-SEP-11 |
| Tin (Sn)-Total | | | <0.00020 | | mg/L | | 0.0006 | 22-SEP-11 |



Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-------------------|--------------|----------|-----------|-------|------|--------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2257881 | | | | | | | |
| WG1354038-1 MB | | | | | | | | |
| Titanium (Ti)-Total | | | <0.00020 | | mg/L | | 0.001 | 22-SEP-11 |
| Tungsten (W)-Total | | | <0.0010 | | mg/L | | 0.002 | 22-SEP-11 |
| Uranium (U)-Total | | | <0.00010 | | mg/L | | 0.0005 | 22-SEP-11 |
| Vanadium (V)-Total | | | <0.00020 | | mg/L | | 0.002 | 22-SEP-11 |
| Zinc (Zn)-Total | | | <0.0050 | | mg/L | | 0.02 | 22-SEP-11 |
| Zirconium (Zr)-Total | | | <0.00040 | | mg/L | | 0.001 | 22-SEP-11 |
| N-TOTKJ-WP | | Water | | | | | | |
| Batch | R2254536 | | | | | | | |
| WG1352330-1 CVS | | | | | | | | |
| Total Kjeldahl Nitrogen | | | 99 | | % | | 90-110 | 20-SEP-11 |
| WG1351730-4 DUP | L1059417-1 | | | | | | | |
| Total Kjeldahl Nitrogen | 0.84 | 0.82 | | | mg/L | 2.5 | 20 | 20-SEP-11 |
| WG1351730-6 DUP | L1059720-6 | | | | | | | |
| Total Kjeldahl Nitrogen | 1.81 | 1.84 | | | mg/L | 1.9 | 20 | 20-SEP-11 |
| WG1351730-2 LCS | | | | | | | | |
| Total Kjeldahl Nitrogen | | | 101 | | % | | 75-125 | 20-SEP-11 |
| WG1351730-1 MB | | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.20 | | mg/L | | 0.2 | 20-SEP-11 |
| WG1351730-3 MS | L1059417-1 | | | | | | | |
| Total Kjeldahl Nitrogen | | | 107 | | % | | 70-130 | 20-SEP-11 |
| WG1351730-5 MS | L1059720-6 | | | | | | | |
| Total Kjeldahl Nitrogen | | | N/A | MS-B | % | | - | 20-SEP-11 |
| NH3-COL-WP | | Water | | | | | | |
| Batch | R2260877 | | | | | | | |
| WG1359404-3 DUP | L1060061-1 | | | | | | | |
| Ammonia as N | 0.062 | 0.062 | | | mg/L | 0.65 | 20 | 29-SEP-11 |
| WG1359404-5 DUP | L1062339-1 | | | | | | | |
| Ammonia as N | 20.9 | 20.9 | | DLA | mg/L | 0.12 | 20 | 29-SEP-11 |
| WG1359404-7 DUP | L1062578-4 | | | | | | | |
| Ammonia as N | 110 | 110 | | DLA | mg/L | 0.13 | 20 | 29-SEP-11 |
| WG1359404-2 LCS | | | | | | | | |
| Ammonia as N | | | 105 | | % | | 85-115 | 29-SEP-11 |
| WG1359404-1 MB | | | | | | | | |
| Ammonia as N | | | <0.050 | | mg/L | | 0.05 | 29-SEP-11 |
| WG1359404-4 MS | L1060058-2 | | | | | | | |
| Ammonia as N | | | 104 | | % | | 75-125 | 29-SEP-11 |



Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------|--------|------------|--------|-----------|-------|-------|--------|-----------|
| NH3-COL-WP | | | | | | | | |
| Batch R2260877 | | | | | | | | |
| WG1359404-6 | MS | L1060062-5 | | | | | | |
| Ammonia as N | | | 95 | | % | | 75-125 | 29-SEP-11 |
| WG1359404-8 | MS | L1062345-3 | | | | | | |
| Ammonia as N | | | 106 | | % | | 75-125 | 29-SEP-11 |
| NO2-IC-WP | | | | | | | | |
| Batch R2255553 | | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Nitrite-N | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Nitrite-N | | | 96 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Nitrite-N | | | <0.050 | | mg/L | | 0.05 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Nitrite-N | | | 104 | | % | | 75-125 | 19-SEP-11 |
| NO3-IC-WP | | | | | | | | |
| Batch R2255553 | | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Nitrate-N | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Nitrate-N | | | 100 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Nitrate-N | | | <0.050 | | mg/L | | 0.05 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Nitrate-N | | | 108 | | % | | 75-125 | 19-SEP-11 |
| P-T-COL-WP | | | | | | | | |
| Batch R2254917 | | | | | | | | |
| WG1352018-3 | DUP | L1060058-1 | | | | | | |
| Phosphorus (P)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 20 | 20-SEP-11 |
| WG1352018-5 | DUP | L1060062-3 | | | | | | |
| Phosphorus (P)-Total | | 0.036 | 0.018 | J | mg/L | 0.011 | 0.02 | 20-SEP-11 |
| WG1352018-2 | LCS | | | | | | | |
| Phosphorus (P)-Total | | | 94 | | % | | 80-120 | 20-SEP-11 |
| WG1352018-1 | MB | | | | | | | |
| Phosphorus (P)-Total | | | <0.010 | | mg/L | | 0.01 | 20-SEP-11 |
| WG1352018-6 | MS | L1060063-2 | | | | | | |
| Phosphorus (P)-Total | | | 91 | | % | | 70-130 | 20-SEP-11 |
| WG1352018-7 | MS | L1060065-1 | | | | | | |



Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|----------|--------------|--------|-----------|-------|------|--------|-----------|
| SO4-IC-WP | | Water | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-1 | MB | | | | | | | |
| Sulfate | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |
| SOLIDS-TDS-WP | | Water | | | | | | |
| Batch | R2258740 | | | | | | | |
| WG1356052-2 | CVS | | | | | | | |
| Total Dissolved Solids | | | 100 | | % | | 85-115 | 26-SEP-11 |
| WG1356052-3 | DUP | L1059318-1 | | | | | | |
| Total Dissolved Solids | | 184 | 174 | | mg/L | 5.6 | 20 | 26-SEP-11 |
| WG1356052-4 | DUP | L1060044-1 | | | | | | |
| Total Dissolved Solids | | 344 | 330 | | mg/L | 4.2 | 20 | 26-SEP-11 |
| WG1356052-7 | DUP | L1063094-1 | | | | | | |
| Total Dissolved Solids | | 1390 | 1380 | | mg/L | 0.72 | 20 | 26-SEP-11 |
| WG1356052-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <5.0 | | mg/L | | 5 | 26-SEP-11 |
| SOLIDS-TOTSUS-WP | | Water | | | | | | |
| Batch | R2258740 | | | | | | | |
| WG1356052-2 | CVS | | | | | | | |
| Total Suspended Solids | | | 94 | | % | | 85-115 | 26-SEP-11 |
| WG1356052-3 | DUP | L1059318-1 | | | | | | |
| Total Suspended Solids | | <5.0 | <5.0 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| WG1356052-4 | DUP | L1060044-1 | | | | | | |
| Total Suspended Solids | | 7.0 | 8.0 | | mg/L | 13 | 400 | 26-SEP-11 |
| WG1356052-6 | DUP | L1062836-2 | | | | | | |
| Total Suspended Solids | | 60.0 | 61.4 | | mg/L | 2.4 | 20 | 26-SEP-11 |
| WG1356052-7 | DUP | L1063094-1 | | | | | | |
| Total Suspended Solids | | 500 | 510 | | mg/L | 2.0 | 20 | 26-SEP-11 |
| WG1356052-1 | MB | | | | | | | |
| Total Suspended Solids | | | <5.0 | | mg/L | | 5 | 26-SEP-11 |
| TURBIDITY-WP | | Water | | | | | | |
| Batch | R2254943 | | | | | | | |
| WG1352212-3 | DUP | L1059370-5 | | | | | | |
| Turbidity | | 0.63 | 0.63 | | NTU | 0.32 | 15 | 17-SEP-11 |
| WG1352212-4 | DUP | L1060062-7 | | | | | | |
| Turbidity | | 2.21 | 2.20 | | NTU | 0.45 | 15 | 17-SEP-11 |
| WG1352212-2 | LCS | | | | | | | |
| Turbidity | | | 98 | | % | | 85-115 | 17-SEP-11 |



Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------|-----------------|-----------|--------|-----------|-------|-----|-------|-----------|
| TURBIDITY-WP | Water | | | | | | | |
| Batch | R2254943 | | | | | | | |
| WG1352212-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 17-SEP-11 |

Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

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Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|--|
| DLA | Detection Limit Adjusted For required dilution |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------|-----------|---------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Total Dissolved Solids | | | | | | | |
| | 1 | 15-SEP-11 | 26-SEP-11 10:07 | 7 | 11 | days | EHT |
| | 2 | 15-SEP-11 | 26-SEP-11 10:07 | 7 | 11 | days | EHT |
| | 3 | 15-SEP-11 | 26-SEP-11 10:07 | 7 | 11 | days | EHT |
| | 4 | 15-SEP-11 | 26-SEP-11 10:07 | 7 | 11 | days | EHT |
| Total Suspended Solids | | | | | | | |
| | 1 | 15-SEP-11 | 26-SEP-11 10:07 | 7 | 11 | days | EHT |
| | 2 | 15-SEP-11 | 26-SEP-11 10:07 | 7 | 11 | days | EHT |
| | 3 | 15-SEP-11 | 26-SEP-11 10:07 | 7 | 11 | days | EHT |
| | 4 | 15-SEP-11 | 26-SEP-11 10:07 | 7 | 11 | days | EHT |
| pH | | | | | | | |
| | 1 | 15-SEP-11 | 17-SEP-11 10:39 | 0.25 | 47 | hours | EHTR-FM |
| | 2 | 15-SEP-11 | 17-SEP-11 10:39 | 0.25 | 47 | hours | EHTR-FM |
| | 3 | 15-SEP-11 | 17-SEP-11 10:39 | 0.25 | 47 | hours | EHTR-FM |
| | 4 | 15-SEP-11 | 17-SEP-11 10:39 | 0.25 | 47 | hours | EHTR-FM |
| Anions and Nutrients | | | | | | | |
| Bromide | | | | | | | |
| | 1 | 15-SEP-11 | 19-SEP-11 14:21 | 48 | 98 | hours | EHTL |
| | 2 | 15-SEP-11 | 19-SEP-11 14:21 | 48 | 98 | hours | EHTL |
| | 3 | 15-SEP-11 | 19-SEP-11 14:21 | 48 | 98 | hours | EHTL |
| | 4 | 15-SEP-11 | 19-SEP-11 14:21 | 48 | 98 | hours | EHTL |
| Colour, True | | | | | | | |
| | 1 | 15-SEP-11 | 17-SEP-11 18:52 | 48 | 55 | hours | EHTL |
| | 2 | 15-SEP-11 | 17-SEP-11 18:52 | 48 | 55 | hours | EHTL |
| | 3 | 15-SEP-11 | 17-SEP-11 18:52 | 48 | 55 | hours | EHTL |
| | 4 | 15-SEP-11 | 17-SEP-11 18:52 | 48 | 55 | hours | EHTL |
| Nitrate as N | | | | | | | |
| | 1 | 15-SEP-11 | 19-SEP-11 14:21 | 48 | 98 | hours | EHTL |
| | 2 | 15-SEP-11 | 19-SEP-11 14:21 | 48 | 98 | hours | EHTL |
| | 3 | 15-SEP-11 | 19-SEP-11 14:21 | 48 | 98 | hours | EHTL |
| | 4 | 15-SEP-11 | 19-SEP-11 14:21 | 48 | 98 | hours | EHTL |
| Nitrite as N | | | | | | | |
| | 1 | 15-SEP-11 | 19-SEP-11 14:21 | 48 | 98 | hours | EHTL |
| | 2 | 15-SEP-11 | 19-SEP-11 14:21 | 48 | 98 | hours | EHTL |
| | 3 | 15-SEP-11 | 19-SEP-11 14:21 | 48 | 98 | hours | EHTL |
| | 4 | 15-SEP-11 | 19-SEP-11 14:21 | 48 | 98 | hours | EHTL |
| Phosphorus, Total | | | | | | | |
| | 1 | 15-SEP-11 | 19-SEP-11 17:44 | 48 | 102 | hours | EHTL |
| | 2 | 15-SEP-11 | 19-SEP-11 17:44 | 48 | 102 | hours | EHTL |
| | 3 | 15-SEP-11 | 19-SEP-11 17:44 | 48 | 102 | hours | EHTL |
| | 4 | 15-SEP-11 | 19-SEP-11 17:44 | 48 | 102 | 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.

Quality Control Report

Workorder: L1060058

Report Date: 06-OCT-11

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

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Contact: Clifton Samoiloff

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 L1060058 were received on 17-SEP-11 10:30.

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.



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

Date Received: 17-SEP-11
Report Date: 06-OCT-11 15:09 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1060059
Project P.O. #: NOT SUBMITTED
Job Reference: 60212443-200
C of C Numbers:
Legal Site Desc:

Gail Hill
Account Manager

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

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---------------------------------|-----------------------------|------------|----------|-------|-----------|-----------|----------|
| L1060059-1 | | | | | | | |
| GHL-01 | | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 10:06 | | | | | | |
| Matrix: | WATER | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 1.27 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 6.90 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.4 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | <1.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 23.5 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 15.5 | | 1.0 | mg/L | | 21-SEP-11 | R2255160 |
| Hardness (as CaCO3) | 52.1 | | 0.30 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 50.6 | | 0.20 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.012 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 0.759 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 70.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Total Kjeldahl Nitrogen | 0.87 | | 0.20 | mg/L | 17-SEP-11 | 20-SEP-11 | R2254536 |
| Total Organic Carbon | 16.5 | | 1.0 | mg/L | | 21-SEP-11 | R2255160 |
| Total Suspended Solids | 9.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Turbidity | 1.34 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0222 | | 0.0050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Arsenic (As)-Total | 0.00197 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Barium (Ba)-Total | 0.0177 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cadmium (Cd)-Total | 0.000028 | | 0.000010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Calcium (Ca)-Total | 12.8 | | 0.10 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Copper (Cu)-Total | 0.00035 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Iron (Fe)-Total | 0.14 | | 0.10 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Lithium (Li)-Total | 0.0031 | | 0.0020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Magnesium (Mg)-Total | 4.92 | | 0.010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Manganese (Mn)-Total | 0.0769 | | 0.00030 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060059-1 | | | | | | | |
| GHL-01 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 10:06 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Potassium (K)-Total | 0.798 | | 0.020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Rubidium (Rb)-Total | 0.00115 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Silicon (Si)-Total | 0.408 | | 0.050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Sodium (Na)-Total | 1.49 | | 0.030 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Strontium (Sr)-Total | 0.0336 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Titanium (Ti)-Total | 0.00051 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Zinc (Zn)-Total | 0.0053 | | 0.0050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0084 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00180 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0165 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 12.4 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00047 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0027 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 4.80 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00044 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 0.763 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00110 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.381 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 1.38 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0322 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060059-1 | | | | | | | |
| GHL-01 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 10:06 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | 0.0047 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 2.74 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| Phaeophytin a | 1.90 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 43.7 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 53.3 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 102 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 7.82 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060059-2 | | | | | | | |
| GHL-02 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 11:03 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 1.26 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 6.99 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.3 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | <1.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 18.4 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 15.3 | | 1.0 | mg/L | | 21-SEP-11 | R2255160 |
| Hardness (as CaCO3) | 55.6 | | 0.30 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 50.7 | | 0.20 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.015 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 0.745 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 68.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Total Kjeldahl Nitrogen | 0.86 | | 0.20 | mg/L | 17-SEP-11 | 20-SEP-11 | R2254536 |
| Total Organic Carbon | 16.6 | | 1.0 | mg/L | | 21-SEP-11 | R2255160 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|-----------------------------------|-----------------------------|------------|----------|-------|-----------|-----------|----------|
| L1060059-2 | | | | | | | |
| GHL-02 | | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 11:03 | | | | | | |
| Matrix: | WATER | | | | | | |
| Total Suspended Solids | 5.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Turbidity | 1.63 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0267 | | 0.0050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Arsenic (As)-Total | 0.00203 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Barium (Ba)-Total | 0.0184 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Calcium (Ca)-Total | 13.8 | | 0.10 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Copper (Cu)-Total | 0.00059 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Iron (Fe)-Total | 0.14 | | 0.10 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Lead (Pb)-Total | 0.000190 | | 0.000090 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Lithium (Li)-Total | 0.0030 | | 0.0020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Magnesium (Mg)-Total | 5.13 | | 0.010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Manganese (Mn)-Total | 0.0768 | | 0.00030 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Potassium (K)-Total | 0.826 | | 0.020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Rubidium (Rb)-Total | 0.00123 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Silicon (Si)-Total | 0.447 | | 0.050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Sodium (Na)-Total | 1.50 | | 0.030 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Strontium (Sr)-Total | 0.0348 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Titanium (Ti)-Total | 0.00062 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Zinc (Zn)-Total | 0.0096 | | 0.0050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0092 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00179 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0162 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 12.4 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------------------------|------------|----------|----------|-----------|-----------|----------|
| L1060059-2 | | | | | | | |
| GHL-02 | | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 11:03 | | | | | | |
| Matrix: | WATER | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00038 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0035 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 4.83 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00856 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 0.768 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00109 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.379 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 1.37 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0327 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | 0.0034 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 3.41 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| Phaeophytin a | 1.99 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 43.8 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 53.5 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 102 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 7.80 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060059-3 | | | | | | | |
| GHL-03 | | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 12:37 | | | | | | |
| Matrix: | WATER | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 1.24 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---------------------------------|-----------------------------|------------|----------|-------|-----------|-----------|----------|
| L1060059-3 | | | | | | | |
| GHL-03 | | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 12:37 | | | | | | |
| Matrix: | WATER | | | | | | |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 7.41 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.1 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | <1.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 17.0 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 15.3 | | 1.0 | mg/L | | 21-SEP-11 | R2255160 |
| Hardness (as CaCO3) | 50.1 | | 0.20 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 52.5 | | 0.30 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.011 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 0.727 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 62.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Total Kjeldahl Nitrogen | 0.87 | | 0.20 | mg/L | 17-SEP-11 | 20-SEP-11 | R2254536 |
| Total Organic Carbon | 16.6 | | 1.0 | mg/L | | 21-SEP-11 | R2255160 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Turbidity | 0.95 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0199 | | 0.0050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Arsenic (As)-Total | 0.00183 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Barium (Ba)-Total | 0.0168 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Calcium (Ca)-Total | 12.9 | | 0.10 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Copper (Cu)-Total | 0.00031 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Iron (Fe)-Total | 0.11 | | 0.10 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Lithium (Li)-Total | 0.0031 | | 0.0020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Magnesium (Mg)-Total | 4.93 | | 0.010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Manganese (Mn)-Total | 0.0784 | | 0.00030 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Potassium (K)-Total | 0.778 | | 0.020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Rubidium (Rb)-Total | 0.00111 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Silicon (Si)-Total | 0.372 | | 0.050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Sodium (Na)-Total | 1.41 | | 0.030 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060059-3 | | | | | | | |
| GHL-03 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 12:37 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Strontium (Sr)-Total | 0.0331 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Titanium (Ti)-Total | 0.00025 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Zinc (Zn)-Total | 0.0123 | | 0.0050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0099 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00167 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0153 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 12.2 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00031 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0026 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 4.74 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00170 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 0.742 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00105 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.374 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 1.37 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0311 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00025 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | 0.0061 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060059-3 | | | | | | | |
| GHL-03 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 12:37 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 3.39 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| Phaeophytin a | 1.71 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 43.5 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 53.1 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 102 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 7.86 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060059-4 | | | | | | | |
| DUP-01 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 12:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 1.24 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 7.41 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | <1.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 15.6 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 15.3 | | 1.0 | mg/L | | 21-SEP-11 | R2255160 |
| Hardness (as CaCO3) | 55.7 | | 0.30 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 49.7 | | 0.20 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.011 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 0.722 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 66.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Total Kjeldahl Nitrogen | 0.91 | | 0.20 | mg/L | 17-SEP-11 | 20-SEP-11 | R2254536 |
| Total Organic Carbon | 16.6 | | 1.0 | mg/L | | 21-SEP-11 | R2255160 |
| Total Suspended Solids | 5.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Turbidity | 1.04 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0212 | | 0.0050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Arsenic (As)-Total | 0.00198 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Barium (Ba)-Total | 0.0176 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060059-4 DUP-01 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 12:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Calcium (Ca)-Total | 13.8 | | 0.10 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Copper (Cu)-Total | 0.00029 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Iron (Fe)-Total | 0.12 | | 0.10 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Lithium (Li)-Total | 0.0027 | | 0.0020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Magnesium (Mg)-Total | 5.19 | | 0.010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Manganese (Mn)-Total | 0.0845 | | 0.00030 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Potassium (K)-Total | 0.817 | | 0.020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Rubidium (Rb)-Total | 0.00115 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Silicon (Si)-Total | 0.412 | | 0.050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Sodium (Na)-Total | 1.49 | | 0.030 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Strontium (Sr)-Total | 0.0334 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Titanium (Ti)-Total | 0.00026 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Zinc (Zn)-Total | 0.0133 | | 0.0050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0090 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00164 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0155 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 12.1 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0031 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|----------|-----------|-----------|----------|
| L1060059-4 DUP-01 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 12:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Magnesium (Mg)-Dissolved | 4.74 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00031 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 0.731 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00103 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.360 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 1.33 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0312 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | 0.0058 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 3.08 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| Phaeophytin a | 1.69 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 43.4 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 53.0 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 102 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 7.87 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |

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

Reference Information

Qualifiers for Individual Samples Listed:

| Sample Number | Client ID | Qualifier | Description |
|---------------|-----------|-----------|---|
| L1060059-1 | GHL-01 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060059-2 | GHL-02 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060059-3 | GHL-03 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060059-4 | DUP-01 | SFPL | Sample was Filtered and Preserved at the laboratory |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|--|---|
| ACY-L-8.3-PCT-WP | Water | Acidity | APHA 2310 B |
| Acidity is measured using auto-titration with sodium hydroxide to an endpoint of pH 8.3 | | | |
| ALK-TOT-WP | Water | Alkalinity | APHA 2320B |
| Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically. | | | |
| BR-IC-WP | Water | Bromide | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| C-DIS-ORG-WP | Water | Dissolved Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| C-TOT-ORG-WP | Water | Total Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| CHL,PHEO-FLUORO-WP | Water | Chlorophyll a, Pheophytin by fluorometry | EPA 445.0 |
| Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification. | | | |
| CL-IC-WP | Water | Chloride | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| COLOUR-TRUE-WP | Water | Colour, True | APHA 2120C |
| True colour in water is analyzed by discrete analyzer using the platinum-cobalt colourimetric method. Colour is pH dependant; unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit. | | | |
| CONSULT-BOD-CBOD-WP | Water | Carbonaceous BOD | APHA 5210 B-5 day Incub.-O ₂ electrode |
| A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis. | | | |
| EC-WP | Water | Conductivity | APHA 2510B |
| Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed | | | |

Reference Information

Test Method References:

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

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|------------------------|-----------------------|
| Chromatography". | | | |
| SOLIDS-TDS-WP | Water | Total Dissolved Solids | APHA 2540C |
| The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature. | | | |
| SOLIDS-TOTSUS-WP | Water | Total Suspended Solids | APHA 2540D |
| The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C. | | | |
| TURBIDITY-WP | Water | Turbidity | APHA 2130B (modified) |
| Turbidity in aqueous matrices is determined by the nephelometric method. | | | |

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

*mg/kg - milligrams per kilogram based on dry weight of sample
 mg/kg wwt - milligrams per kilogram based on wet weight of sample
 mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
 mg/L - unit of concentration based on volume, parts per million.*

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

Page 1 of 17

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|-----------------|--------------------|--------|-----------|-------|------|--------|-----------|
| ACY-L-8.3-PCT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256906 | | | | | | | |
| WG1355010-3 | DUP | L1060044-1 | | | | | | |
| Acidity (as CaCO3) | | 2.8 | 2.7 | | mg/L | 6.0 | 25 | 21-SEP-11 |
| WG1355010-4 | DUP | L1060061-1 | | | | | | |
| Acidity (as CaCO3) | | 1.8 | 1.8 | | mg/L | 0.13 | 25 | 21-SEP-11 |
| WG1355010-5 | DUP | L1060062-5 | | | | | | |
| Acidity (as CaCO3) | | 1.0 | 1.1 | | mg/L | 4.0 | 25 | 21-SEP-11 |
| WG1355010-6 | DUP | L1060063-7 | | | | | | |
| Acidity (as CaCO3) | | 1.5 | 1.5 | | mg/L | 2.4 | 25 | 21-SEP-11 |
| WG1355010-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 106 | | % | | 70-130 | 21-SEP-11 |
| WG1355010-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | <1.0 | | mg/L | | 1 | 21-SEP-11 |
| ALK-TOT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-3 | CVS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 103 | | % | | 85-115 | 17-SEP-11 |
| WG1351525-4 | DUP | L1059370-11 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 5.1 | 5.9 | | mg/L | 14 | 20 | 17-SEP-11 |
| Bicarbonate (HCO3) | | 6.3 | 7.2 | | mg/L | 14 | 25 | 17-SEP-11 |
| Carbonate (CO3) | | <0.60 | <0.60 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| Hydroxide (OH) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 246 | 247 | | mg/L | 0.25 | 20 | 17-SEP-11 |
| Bicarbonate (HCO3) | | 274 | 270 | | mg/L | 1.3 | 25 | 17-SEP-11 |
| Carbonate (CO3) | | 9.36 | 11.5 | | mg/L | 20 | 25 | 17-SEP-11 |
| Hydroxide (OH) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| BR-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Bromide (Br) | | | 96 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Bromide (Br) | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| C-DIS-ORG-WP | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

Page 2 of 17

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 | R2255160 | | | | | | | |
| WG1353005-2 | CVS | | | | | | | |
| Dissolved Organic Carbon | | | 99 | | % | | 80-120 | 20-SEP-11 |
| WG1352998-2 | DUP | L1060059-1 | | | | | | |
| Dissolved Organic Carbon | | 15.5 | 15.3 | | mg/L | 1.3 | 20 | 21-SEP-11 |
| WG1352998-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <1.0 | | mg/L | | 1 | 20-SEP-11 |
| C-TOT-ORG-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255160 | | | | | | | |
| WG1353005-2 | CVS | | | | | | | |
| Total Organic Carbon | | | 99 | | % | | 80-120 | 20-SEP-11 |
| WG1353005-1 | MB | | | | | | | |
| Total Organic Carbon | | | <1.0 | | mg/L | | 1 | 20-SEP-11 |
| CHL,PHEO-FLUORO-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256760 | | | | | | | |
| WG1354254-1 | CVS | | | | | | | |
| Chlorophyll a | | | 83 | | % | | 65-135 | 23-SEP-11 |
| WG1354254-2 | CVS | | | | | | | |
| Chlorophyll a | | | 115 | | % | | 65-135 | 23-SEP-11 |
| WG1354197-2 | DUP | L1059720-3 | | | | | | |
| Chlorophyll a | | 26.9 | 26.2 | | ug/L | 2.8 | 35 | 23-SEP-11 |
| Phaeophytin a | | 9.76 | 10.7 | | ug/L | 9.4 | 35 | 23-SEP-11 |
| WG1354197-3 | DUP | L1060060-1 | | | | | | |
| Chlorophyll a | | 10.4 | 11.4 | | ug/L | 8.7 | 35 | 23-SEP-11 |
| Phaeophytin a | | 2.88 | 3.28 | | ug/L | 13 | 35 | 23-SEP-11 |
| WG1354197-1 | MB | | | | | | | |
| Chlorophyll a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| Phaeophytin a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| CL-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Chloride | | 1.58 | 1.58 | | mg/L | 0.22 | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Chloride | | | 100 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Chloride | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Chloride | | | 107 | | % | | 75-125 | 19-SEP-11 |



Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|-------------------|-----------|-----------|----------|------|--------|-----------|
| COLOUR-TRUE-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253828 | | | | | | | |
| WG1351569-3 | DUP | L1059499-2 | | | | | | |
| Colour, True | | 23.3 | 24.9 | | CU | 6.6 | 400 | 17-SEP-11 |
| WG1351569-4 | DUP | L1060060-2 | | | | | | |
| Colour, True | | 27.5 | 32.7 | | CU | 17 | 20 | 17-SEP-11 |
| WG1351569-2 | LCS | | | | | | | |
| Colour, True | | | 100 | | % | | 85-115 | 17-SEP-11 |
| WG1351569-1 | MB | | | | | | | |
| Colour, True | | | <5.0 | | CU | | 5 | 17-SEP-11 |
| CONSULT-BOD-CBOD-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255920 | | | | | | | |
| WG1351515-3 | DUP | L1060060-2 | | | | | | |
| WG1351515-4 | DUP | L1060062-7 | | | | | | |
| BOD Carbonaceous | | 2.0 | 2.1 | | mg/L | 4.9 | 400 | 22-SEP-11 |
| WG1351515-2 | IRM | 61-GG | | | | | | |
| BOD Carbonaceous | | | 93 | | % | | 85-115 | 22-SEP-11 |
| WG1351515-1 | MB | | | | | | | |
| BOD Carbonaceous | | | <1.0 | | mg/L | | 1 | 22-SEP-11 |
| EC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-1 | CVS | | | | | | | |
| Conductivity | | | 96 | | % | | 90-110 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| Conductivity | | 799 | 798 | | umhos/cm | 0.15 | 10 | 17-SEP-11 |
| F-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Fluoride | | | 101 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Fluoride | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| HG-D-CVAF-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2264510 | | | | | | | |
| WG1363399-5 | DUP | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| WG1363399-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |



Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|-----------|-----------|-------|------|---------|-----------|
| HG-D-CVAF-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2264510 | | | | | | | |
| WG1363399-1 MB | | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| WG1363399-6 MS | | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |
| HG-T-CVAF-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2263097 | | | | | | | |
| WG1361800-3 DUP | | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | | <0.000050 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-5 DUP | | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | | <0.000050 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-2 LCS | | | | | | | | |
| Mercury (Hg)-Total | | | 100 | | % | | 80-120 | 30-SEP-11 |
| WG1361800-1 MB | | | | | | | | |
| Mercury (Hg)-Total | | | <0.000050 | | mg/L | | 0.00005 | 30-SEP-11 |
| WG1361800-4 MS | | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | | 93 | | % | | 70-130 | 30-SEP-11 |
| WG1361800-6 MS | | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | | 85 | | % | | 70-130 | 30-SEP-11 |
| MET-D-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 DUP | | WG1356177-3 | | | | | | |
| Aluminum (Al)-Dissolved | | | 2.03 | 1.99 | mg/L | 1.8 | 20 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | 1.02 | 1.01 | mg/L | 1.2 | 20 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | 1.00 | 1.01 | mg/L | 0.34 | 20 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | 0.256 | 0.252 | mg/L | 1.3 | 20 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | 0.105 | 0.101 | mg/L | 3.4 | 20 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | 1.02 | 1.03 | mg/L | 0.20 | 20 | 23-SEP-11 |
| Boron (B)-Dissolved | | | 1.03 | 1.00 | mg/L | 2.9 | 20 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | 0.103 | 0.106 | mg/L | 2.7 | 20 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | | 50.2 | 50.5 | mg/L | 0.69 | 20 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | 0.0493 | 0.0489 | mg/L | 0.70 | 20 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | 0.249 | 0.251 | mg/L | 1.1 | 20 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | 0.257 | 0.256 | mg/L | 0.20 | 20 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | 0.250 | 0.252 | mg/L | 1.1 | 20 | 23-SEP-11 |



Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|---------|-----------|-------|------|--------|-----------|
| MET-D-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 | DUP | WG1356177-3 | | | | | | |
| Iron (Fe)-Dissolved | | 1.00 | 1.01 | | mg/L | 0.49 | 20 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | 0.514 | 0.503 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | 0.263 | 0.254 | | mg/L | 3.7 | 20 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | 50.5 | 50.9 | | mg/L | 0.73 | 20 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | 0.247 | 0.252 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | 0.255 | 0.261 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | 0.513 | 0.520 | | mg/L | 1.4 | 20 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | 2.61 | 2.67 | | mg/L | 2.4 | 20 | 23-SEP-11 |
| Potassium (K)-Dissolved | | 51.8 | 50.9 | | mg/L | 1.8 | 20 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | 0.101 | 0.103 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | 1.01 | 1.01 | | mg/L | 0.29 | 20 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | 1.01 | 1.00 | | mg/L | 0.38 | 20 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | 0.108 | 0.113 | | mg/L | 4.5 | 20 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | 51.4 | 51.9 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | 0.254 | 0.262 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | 0.103 | 0.105 | | mg/L | 1.9 | 20 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | 1.04 | 1.03 | | mg/L | 1.3 | 20 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | 0.0988 | 0.101 | | mg/L | 2.2 | 25 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | 0.523 | 0.540 | | mg/L | 3.1 | 20 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | 0.252 | 0.258 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | 0.101 | 0.0999 | | mg/L | 1.0 | 20 | 23-SEP-11 |
| Uranium (U)-Dissolved | | 0.00518 | 0.00498 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | 0.511 | 0.519 | | mg/L | 1.6 | 20 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | 0.510 | 0.516 | | mg/L | 1.2 | 20 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | 0.0994 | 0.103 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| WG1356177-2 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Boron (B)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |



Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------|----------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-2 LCS | | | | | | | | |
| Cadmium (Cd)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Potassium (K)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | 108 | | % | | 80-120 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Uranium (U)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| WG1356177-1 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |



Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-1 | MB | | | | | | | |
| Arsenic (As)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Boron (B)-Dissolved | | | <0.010 | | mg/L | | 0.03 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | <0.000010 | | mg/L | | 0.0002 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | | <0.050 | | mg/L | | 0.2 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | <0.0020 | | mg/L | | 0.002 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | <0.10 | | mg/L | | 0.1 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | <0.000090 | | mg/L | | 0.001 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | <0.0020 | | mg/L | | 0.01 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | | <0.010 | | mg/L | | 0.05 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | <0.0010 | | mg/L | | 0.002 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | <0.10 | | mg/L | | 0.5 | 23-SEP-11 |
| Potassium (K)-Dissolved | | | <0.020 | | mg/L | | 0.1 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | <0.0010 | | mg/L | | 0.005 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | <0.050 | | mg/L | | 0.3 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | | <0.020 | | mg/L | | 0.05 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | | <0.00010 | | mg/L | | 0.005 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | | <0.00020 | | mg/L | | 0.0006 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Uranium (U)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |



Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------|----------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-1 | MB | | | | | | | |
| Vanadium (V)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | | <0.00040 | | mg/L | | 0.001 | 23-SEP-11 |
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2257881 | | | | | | | |
| WG1354038-2 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 95 | | % | | 80-120 | 22-SEP-11 |
| Antimony (Sb)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Arsenic (As)-Total | | | 100 | | % | | 80-120 | 22-SEP-11 |
| Barium (Ba)-Total | | | 100 | | % | | 80-120 | 22-SEP-11 |
| Beryllium (Be)-Total | | | 103 | | % | | 80-120 | 22-SEP-11 |
| Bismuth (Bi)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Boron (B)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Cadmium (Cd)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Calcium (Ca)-Total | | | 102 | | % | | 80-120 | 22-SEP-11 |
| Cesium (Cs)-Total | | | 95 | | % | | 80-120 | 22-SEP-11 |
| Chromium (Cr)-Total | | | 95 | | % | | 80-120 | 22-SEP-11 |
| Cobalt (Co)-Total | | | 101 | | % | | 80-120 | 22-SEP-11 |
| Copper (Cu)-Total | | | 96 | | % | | 80-120 | 22-SEP-11 |
| Iron (Fe)-Total | | | 95 | | % | | 80-120 | 22-SEP-11 |
| Lead (Pb)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Lithium (Li)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Magnesium (Mg)-Total | | | 100 | | % | | 80-120 | 22-SEP-11 |
| Manganese (Mn)-Total | | | 95 | | % | | 80-120 | 22-SEP-11 |
| Molybdenum (Mo)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Nickel (Ni)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Phosphorus (P)-Total | | | 100 | | % | | 80-120 | 22-SEP-11 |
| Potassium (K)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Rubidium (Rb)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Selenium (Se)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Silicon (Si)-Total | | | 96 | | % | | 80-120 | 22-SEP-11 |
| Silver (Ag)-Total | | | 104 | | % | | 80-120 | 22-SEP-11 |
| Sodium (Na)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Strontium (Sr)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |



Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2257881 | | | | | | | |
| WG1354038-2 LCS | | | | | | | | |
| Strontium (Sr)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Tellurium (Te)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Thallium (Tl)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Thorium (Th)-Total | | | 97 | | % | | 70-130 | 22-SEP-11 |
| Tin (Sn)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Titanium (Ti)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Tungsten (W)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Uranium (U)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Vanadium (V)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Zinc (Zn)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Zirconium (Zr)-Total | | | 100 | | % | | 80-120 | 22-SEP-11 |
| WG1354038-1 MB | | | | | | | | |
| Aluminum (Al)-Total | | | <0.0050 | | mg/L | | 0.02 | 22-SEP-11 |
| Antimony (Sb)-Total | | | <0.00020 | | mg/L | | 0.001 | 22-SEP-11 |
| Arsenic (As)-Total | | | <0.00020 | | mg/L | | 0.001 | 22-SEP-11 |
| Barium (Ba)-Total | | | <0.00020 | | mg/L | | 0.0005 | 22-SEP-11 |
| Beryllium (Be)-Total | | | <0.00020 | | mg/L | | 0.001 | 22-SEP-11 |
| Bismuth (Bi)-Total | | | <0.00020 | | mg/L | | 0.0005 | 22-SEP-11 |
| Boron (B)-Total | | | <0.010 | | mg/L | | 0.03 | 22-SEP-11 |
| Cadmium (Cd)-Total | | | <0.000010 | | mg/L | | 0.0002 | 22-SEP-11 |
| Calcium (Ca)-Total | | | <0.10 | | mg/L | | 0.2 | 22-SEP-11 |
| Cesium (Cs)-Total | | | <0.00010 | | mg/L | | 0.0005 | 22-SEP-11 |
| Chromium (Cr)-Total | | | <0.0010 | | mg/L | | 0.002 | 22-SEP-11 |
| Cobalt (Co)-Total | | | <0.00020 | | mg/L | | 0.0005 | 22-SEP-11 |
| Copper (Cu)-Total | | | <0.00020 | | mg/L | | 0.002 | 22-SEP-11 |
| Iron (Fe)-Total | | | <0.10 | | mg/L | | 0.1 | 22-SEP-11 |
| Lead (Pb)-Total | | | <0.000090 | | mg/L | | 0.001 | 22-SEP-11 |
| Lithium (Li)-Total | | | <0.0020 | | mg/L | | 0.002 | 22-SEP-11 |
| Magnesium (Mg)-Total | | | <0.010 | | mg/L | | 0.05 | 22-SEP-11 |
| Manganese (Mn)-Total | | | <0.00030 | | mg/L | | 0.001 | 22-SEP-11 |
| Molybdenum (Mo)-Total | | | <0.00020 | | mg/L | | 0.0005 | 22-SEP-11 |
| Nickel (Ni)-Total | | | <0.0020 | | mg/L | | 0.002 | 22-SEP-11 |
| Phosphorus (P)-Total | | | <0.20 | | mg/L | | 0.5 | 22-SEP-11 |
| Potassium (K)-Total | | | <0.020 | | mg/L | | 0.1 | 22-SEP-11 |



Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-------------------|--------------|----------|-----------|-------|-----|--------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2257881 | | | | | | | |
| WG1354038-1 MB | | | | | | | | |
| Rubidium (Rb)-Total | | | <0.00020 | | mg/L | | 0.0005 | 22-SEP-11 |
| Selenium (Se)-Total | | | <0.0010 | | mg/L | | 0.005 | 22-SEP-11 |
| Silicon (Si)-Total | | | <0.050 | | mg/L | | 0.3 | 22-SEP-11 |
| Silver (Ag)-Total | | | <0.00010 | | mg/L | | 0.001 | 22-SEP-11 |
| Sodium (Na)-Total | | | <0.030 | | mg/L | | 0.05 | 22-SEP-11 |
| Strontium (Sr)-Total | | | <0.00010 | | mg/L | | 0.0005 | 22-SEP-11 |
| Tellurium (Te)-Total | | | <0.00020 | | mg/L | | 0.001 | 22-SEP-11 |
| Thallium (Tl)-Total | | | <0.00010 | | mg/L | | 0.005 | 22-SEP-11 |
| Thorium (Th)-Total | | | <0.00010 | | mg/L | | 0.0001 | 22-SEP-11 |
| Tin (Sn)-Total | | | <0.00020 | | mg/L | | 0.0006 | 22-SEP-11 |
| Titanium (Ti)-Total | | | <0.00020 | | mg/L | | 0.001 | 22-SEP-11 |
| Tungsten (W)-Total | | | <0.0010 | | mg/L | | 0.002 | 22-SEP-11 |
| Uranium (U)-Total | | | <0.00010 | | mg/L | | 0.0005 | 22-SEP-11 |
| Vanadium (V)-Total | | | <0.00020 | | mg/L | | 0.002 | 22-SEP-11 |
| Zinc (Zn)-Total | | | <0.0050 | | mg/L | | 0.02 | 22-SEP-11 |
| Zirconium (Zr)-Total | | | <0.00040 | | mg/L | | 0.001 | 22-SEP-11 |
| N-TOTKJ-WP | | Water | | | | | | |
| Batch | R2254536 | | | | | | | |
| WG1352330-1 CVS | | | | | | | | |
| Total Kjeldahl Nitrogen | | | 99 | | % | | 90-110 | 20-SEP-11 |
| WG1351730-4 DUP | L1059417-1 | | | | | | | |
| Total Kjeldahl Nitrogen | 0.84 | 0.82 | | | mg/L | 2.5 | 20 | 20-SEP-11 |
| WG1351730-6 DUP | L1059720-6 | | | | | | | |
| Total Kjeldahl Nitrogen | 1.81 | 1.84 | | | mg/L | 1.9 | 20 | 20-SEP-11 |
| WG1351730-2 LCS | | | | | | | | |
| Total Kjeldahl Nitrogen | | | 101 | | % | | 75-125 | 20-SEP-11 |
| WG1351730-1 MB | | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.20 | | mg/L | | 0.2 | 20-SEP-11 |
| WG1351730-3 MS | L1059417-1 | | | | | | | |
| Total Kjeldahl Nitrogen | | | 107 | | % | | 70-130 | 20-SEP-11 |
| WG1351730-5 MS | L1059720-6 | | | | | | | |
| Total Kjeldahl Nitrogen | | | N/A | MS-B | % | | - | 20-SEP-11 |
| NH3-COL-WP | | Water | | | | | | |



Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| NH3-COL-WP | | Water | | | | | | |
| Batch | R2260877 | | | | | | | |
| WG1359404-3 | DUP | L1060061-1 | | | | | | |
| Ammonia as N | | 0.062 | 0.062 | | mg/L | 0.65 | 20 | 29-SEP-11 |
| WG1359404-5 | DUP | L1062339-1 | | | | | | |
| Ammonia as N | | 20.9 | 20.9 | DLA | mg/L | 0.12 | 20 | 29-SEP-11 |
| WG1359404-7 | DUP | L1062578-4 | | | | | | |
| Ammonia as N | | 110 | 110 | DLA | mg/L | 0.13 | 20 | 29-SEP-11 |
| WG1359404-2 | LCS | | | | | | | |
| Ammonia as N | | | 105 | | % | | 85-115 | 29-SEP-11 |
| WG1359404-1 | MB | | | | | | | |
| Ammonia as N | | | <0.050 | | mg/L | | 0.05 | 29-SEP-11 |
| WG1359404-4 | MS | L1060058-2 | | | | | | |
| Ammonia as N | | | 104 | | % | | 75-125 | 29-SEP-11 |
| WG1359404-6 | MS | L1060062-5 | | | | | | |
| Ammonia as N | | | 95 | | % | | 75-125 | 29-SEP-11 |
| WG1359404-8 | MS | L1062345-3 | | | | | | |
| Ammonia as N | | | 106 | | % | | 75-125 | 29-SEP-11 |
| NO2-IC-WP | | Water | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Nitrite-N | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Nitrite-N | | | 96 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Nitrite-N | | | <0.050 | | mg/L | | 0.05 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Nitrite-N | | | 104 | | % | | 75-125 | 19-SEP-11 |
| NO3-IC-WP | | Water | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Nitrate-N | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Nitrate-N | | | 100 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Nitrate-N | | | <0.050 | | mg/L | | 0.05 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Nitrate-N | | | 108 | | % | | 75-125 | 19-SEP-11 |
| P-T-COL-WP | | Water | | | | | | |



Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|---------|-----------|----------|-------|---------|-----------|
| P-T-COL-WP | | Water | | | | | | |
| Batch | R2254917 | | | | | | | |
| WG1352018-3 | DUP | L1060058-1 | | | | | | |
| Phosphorus (P)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 20 | 20-SEP-11 |
| WG1352018-5 | DUP | L1060062-3 | | | | | | |
| Phosphorus (P)-Total | | 0.036 | 0.018 | J | mg/L | 0.011 | 0.02 | 20-SEP-11 |
| WG1352018-2 | LCS | | | | | | | |
| Phosphorus (P)-Total | | | 94 | | % | | 80-120 | 20-SEP-11 |
| WG1352018-1 | MB | | | | | | | |
| Phosphorus (P)-Total | | | <0.010 | | mg/L | | 0.01 | 20-SEP-11 |
| WG1352018-6 | MS | L1060063-2 | | | | | | |
| Phosphorus (P)-Total | | | 91 | | % | | 70-130 | 20-SEP-11 |
| WG1352018-7 | MS | L1060065-1 | | | | | | |
| Phosphorus (P)-Total | | | 85 | | % | | 70-130 | 20-SEP-11 |
| WG1352018-8 | MS | L1060115-1 | | | | | | |
| Phosphorus (P)-Total | | | 91 | | % | | 70-130 | 20-SEP-11 |
| PH-WP | | Water | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-4 | DUP | L1059370-11 | | | | | | |
| pH | | 6.40 | 6.29 | J | pH units | 0.11 | 0.2 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| pH | | 8.56 | 8.61 | J | pH units | 0.05 | 0.2 | 17-SEP-11 |
| WG1351525-2 | LCS | | | | | | | |
| pH | | | 7.41 | | pH units | | 7.3-7.5 | 17-SEP-11 |
| SIO2-L-COL-WP | | Water | | | | | | |
| Batch | R2258513 | | | | | | | |
| WG1356848-6 | DUP | L1057743-1 | | | | | | |
| Silica, Reactive (as SiO2) | | 0.321 | 0.323 | | mg/L | 0.70 | 20 | 24-SEP-11 |
| WG1356848-7 | DUP | L1059181-1 | | | | | | |
| Silica, Reactive (as SiO2) | | 0.0841 | 0.0838 | | mg/L | 0.32 | 20 | 24-SEP-11 |
| WG1356848-8 | DUP | L1060061-2 | | | | | | |
| Silica, Reactive (as SiO2) | | 4.04 | 4.49 | | mg/L | 11 | 20 | 24-SEP-11 |
| WG1356848-9 | DUP | L1060065-3 | | | | | | |
| Silica, Reactive (as SiO2) | | 2.66 | 2.57 | | mg/L | 3.6 | 20 | 24-SEP-11 |
| WG1356848-2 | LCS | | | | | | | |
| Silica, Reactive (as SiO2) | | | 100 | | % | | 85-115 | 24-SEP-11 |
| WG1356848-1 | MB | | | | | | | |
| Silica, Reactive (as SiO2) | | | <0.0050 | | mg/L | | 0.005 | 24-SEP-11 |
| WG1356848-3 | MS | L1060058-1 | | | | | | |
| Silica, Reactive (as SiO2) | | | 103 | | % | | 75-125 | 24-SEP-11 |



Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| SIO2-L-COL-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2258513 | | | | | | | |
| WG1356848-4 MS | | L1060060-3 | | | | | | |
| Silica, Reactive (as SiO2) | | | 97 | | % | | 75-125 | 24-SEP-11 |
| WG1356848-5 MS | | L1060063-7 | | | | | | |
| Silica, Reactive (as SiO2) | | | 113 | | % | | 75-125 | 24-SEP-11 |
| SO4-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 LCS | | | | | | | | |
| Sulfate | | | 102 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 MB | | | | | | | | |
| Sulfate | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |
| SOLIDS-TDS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2258740 | | | | | | | |
| WG1356052-2 CVS | | | | | | | | |
| Total Dissolved Solids | | | 100 | | % | | 85-115 | 26-SEP-11 |
| WG1356052-3 DUP | | L1059318-1 | | | | | | |
| Total Dissolved Solids | | 184 | 174 | | mg/L | 5.6 | 20 | 26-SEP-11 |
| WG1356052-4 DUP | | L1060044-1 | | | | | | |
| Total Dissolved Solids | | 344 | 330 | | mg/L | 4.2 | 20 | 26-SEP-11 |
| WG1356052-7 DUP | | L1063094-1 | | | | | | |
| Total Dissolved Solids | | 1390 | 1380 | | mg/L | 0.72 | 20 | 26-SEP-11 |
| WG1356052-1 MB | | | | | | | | |
| Total Dissolved Solids | | | <5.0 | | mg/L | | 5 | 26-SEP-11 |
| SOLIDS-TOTSUS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2258740 | | | | | | | |
| WG1356052-2 CVS | | | | | | | | |
| Total Suspended Solids | | | 94 | | % | | 85-115 | 26-SEP-11 |
| WG1356052-3 DUP | | L1059318-1 | | | | | | |
| Total Suspended Solids | | <5.0 | <5.0 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| WG1356052-4 DUP | | L1060044-1 | | | | | | |
| Total Suspended Solids | | 7.0 | 8.0 | | mg/L | 13 | 400 | 26-SEP-11 |
| WG1356052-6 DUP | | L1062836-2 | | | | | | |
| Total Suspended Solids | | 60.0 | 61.4 | | mg/L | 2.4 | 20 | 26-SEP-11 |
| WG1356052-7 DUP | | L1063094-1 | | | | | | |
| Total Suspended Solids | | 500 | 510 | | mg/L | 2.0 | 20 | 26-SEP-11 |
| WG1356052-1 MB | | | | | | | | |
| Total Suspended Solids | | | <5.0 | | mg/L | | 5 | 26-SEP-11 |
| TURBIDITY-WP | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| TURBIDITY-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2254943 | | | | | | | |
| WG1352212-3 | DUP | L1059370-5 | | | | | | |
| Turbidity | | 0.63 | 0.63 | | NTU | 0.32 | 15 | 17-SEP-11 |
| WG1352212-4 | DUP | L1060062-7 | | | | | | |
| Turbidity | | 2.21 | 2.20 | | NTU | 0.45 | 15 | 17-SEP-11 |
| WG1352212-2 | LCS | | | | | | | |
| Turbidity | | | 98 | | % | | 85-115 | 17-SEP-11 |
| WG1352212-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 17-SEP-11 |

Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

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

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Contact: Clifton Samoiloff

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|--|
| DLA | Detection Limit Adjusted For required dilution |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

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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 | 14-SEP-11 10:06 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| | 2 | 14-SEP-11 11:03 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| | 3 | 14-SEP-11 12:37 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| | 4 | 14-SEP-11 12:00 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| Total Suspended Solids | | | | | | | |
| | 1 | 14-SEP-11 10:06 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| | 2 | 14-SEP-11 11:03 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| | 3 | 14-SEP-11 12:37 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| | 4 | 14-SEP-11 12:00 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| Turbidity | | | | | | | |
| | 1 | 14-SEP-11 10:06 | 17-SEP-11 09:12 | 48 | 71 | hours | EHTR |
| | 2 | 14-SEP-11 11:03 | 17-SEP-11 09:12 | 48 | 70 | hours | EHTR |
| | 3 | 14-SEP-11 12:37 | 17-SEP-11 09:12 | 48 | 69 | hours | EHTR |
| | 4 | 14-SEP-11 12:00 | 17-SEP-11 09:12 | 48 | 69 | hours | EHTR |
| pH | | | | | | | |
| | 1 | 14-SEP-11 10:06 | 17-SEP-11 10:39 | 0.25 | 72 | hours | EHTR-FM |
| | 2 | 14-SEP-11 11:03 | 17-SEP-11 10:39 | 0.25 | 72 | hours | EHTR-FM |
| | 3 | 14-SEP-11 12:37 | 17-SEP-11 10:39 | 0.25 | 70 | hours | EHTR-FM |
| | 4 | 14-SEP-11 12:00 | 17-SEP-11 10:39 | 0.25 | 71 | hours | EHTR-FM |
| Anions and Nutrients | | | | | | | |
| Bromide | | | | | | | |
| | 1 | 14-SEP-11 10:06 | 19-SEP-11 14:41 | 48 | 125 | hours | EHTR |
| | 2 | 14-SEP-11 11:03 | 19-SEP-11 14:41 | 48 | 124 | hours | EHTR |
| | 3 | 14-SEP-11 12:37 | 19-SEP-11 14:41 | 48 | 122 | hours | EHTR |
| | 4 | 14-SEP-11 12:00 | 19-SEP-11 14:41 | 48 | 123 | hours | EHTR |
| Colour, True | | | | | | | |
| | 1 | 14-SEP-11 10:06 | 17-SEP-11 18:52 | 48 | 81 | hours | EHTR |
| | 2 | 14-SEP-11 11:03 | 17-SEP-11 18:52 | 48 | 80 | hours | EHTR |
| | 3 | 14-SEP-11 12:37 | 17-SEP-11 18:52 | 48 | 78 | hours | EHTR |
| | 4 | 14-SEP-11 12:00 | 17-SEP-11 18:52 | 48 | 79 | hours | EHTR |
| Nitrate as N | | | | | | | |
| | 1 | 14-SEP-11 10:06 | 19-SEP-11 14:41 | 48 | 125 | hours | EHTR |
| | 2 | 14-SEP-11 11:03 | 19-SEP-11 14:41 | 48 | 124 | hours | EHTR |
| | 3 | 14-SEP-11 12:37 | 19-SEP-11 14:41 | 48 | 122 | hours | EHTR |
| | 4 | 14-SEP-11 12:00 | 19-SEP-11 14:41 | 48 | 123 | hours | EHTR |
| Nitrite as N | | | | | | | |
| | 1 | 14-SEP-11 10:06 | 19-SEP-11 14:41 | 48 | 125 | hours | EHTR |
| | 2 | 14-SEP-11 11:03 | 19-SEP-11 14:41 | 48 | 124 | hours | EHTR |
| | 3 | 14-SEP-11 12:37 | 19-SEP-11 14:41 | 48 | 122 | hours | EHTR |
| | 4 | 14-SEP-11 12:00 | 19-SEP-11 14:41 | 48 | 123 | hours | EHTR |
| Phosphorus, Total | | | | | | | |
| | 1 | 14-SEP-11 10:06 | 19-SEP-11 17:44 | 48 | 128 | hours | EHTR |
| | 2 | 14-SEP-11 11:03 | 19-SEP-11 17:44 | 48 | 127 | hours | EHTR |
| | 3 | 14-SEP-11 12:37 | 19-SEP-11 17:44 | 48 | 125 | hours | EHTR |
| | 4 | 14-SEP-11 12:00 | 19-SEP-11 17:44 | 48 | 126 | hours | EHTR |
| Aggregate Organics | | | | | | | |
| Carbonaceous BOD | | | | | | | |
| | 1 | 14-SEP-11 10:06 | 17-SEP-11 10:32 | 48 | 72 | hours | EHTR |
| | 2 | 14-SEP-11 11:03 | 17-SEP-11 10:32 | 48 | 72 | hours | EHTR |

Quality Control Report

Workorder: L1060059

Report Date: 06-OCT-11

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

Page 17 of 17

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|--|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Aggregate Organics | | | | | | | |
| Carbonaceous BOD | | | | | | | |
| | 3 | 14-SEP-11 12:37 | 17-SEP-11 10:32 | 48 | 70 | hours | EHTR |
| | 4 | 14-SEP-11 12:00 | 17-SEP-11 10:32 | 48 | 71 | hours | EHTR |
| Organic Parameters | | | | | | | |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| | 1 | 14-SEP-11 10:06 | 17-SEP-11 10:30 | 48 | 72 | hours | EHTR |
| | 2 | 14-SEP-11 11:03 | 17-SEP-11 10:30 | 48 | 72 | hours | EHTR |
| | 3 | 14-SEP-11 12:37 | 17-SEP-11 10:30 | 48 | 70 | hours | EHTR |
| | 4 | 14-SEP-11 12:00 | 17-SEP-11 10:30 | 48 | 71 | hours | EHTR |

Legend & Qualifier Definitions:

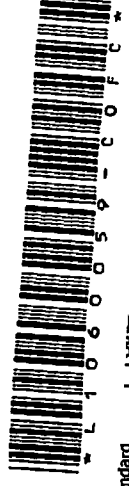
EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended 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 L1060059 were received on 17-SEP-11 10:30.

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.



L106059

Report To: **ALS Environmental**

Company: AECOM -W172

Contact: Cliff Samoloff

Address: 99 Commerce Dr

Phone: _____ Fax: _____

Invoice To Same as Report? Yes No

Hardcopy of Invoice with Report? Yes No

Company: _____ Contact: _____ Address: _____ Phone: _____ Fax: _____

Quote #: Q24534

ALS Contact: Christine Herrod

Sampler: _____

Time (hh:mm): _____

Date (dd-mm-yy): 14 Sep 11

Sample Type: water

| Sample # | Sample Identification (This description will appear on the report) | ALS Contact | | Sampler | | Analysis Request | | | | | | | Number of Containers | |
|----------|---|------------------------------------|--------------------|-----------------|-------------|---------------------------|----------------------------|---------------------------------|--------------|------|-------------------|---------------------|----------------------|-------------------------|
| | | Lab/Work Order # (lab/use only) | Date (dd-mm-yy) | Time (hh:mm) | Sample Type | Chlorophylla / Pheophytin | Acidity, Colour, Turbidity | Anions, Br, silica, ph, ec, Alk | NH3, TKN, PT | CBOD | Solids (TSS, TDS) | Metals & Hg - Total | | Metals & Hg - Dissolved |
| 1 | GHL-01 | | 14 Sep 11 | 10:06 | water | X | X | X | X | X | X | X | X | 6 |
| 2 | GHL-02 | | | 11:03 | | X | X | X | X | X | X | X | X | 6 |
| 3 | GHL-03 | | | 12:37 | | X | X | X | X | X | X | X | X | 6 |
| 4 | DUP-01 | | | 12:00 | | X | X | X | X | X | X | X | X | 6 |

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

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

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.

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

Released by: _____ Date (dd-mm-yy): 17 Sep 11 Time (hh:mm): 10:30

Received by: *bul* Date: 17 Sep 11 Time: 10:30

Temperature: 10.3 °C

Verified by: _____ Date: _____ Time: _____

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

SHIPMENT RELEASE (client use) SHIPMENT RECEIPT (lab use only) SHIPMENT VERIFICATION (lab use only)



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

Date Received: 17-SEP-11
Report Date: 06-OCT-11 15:30 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1060060
Project P.O. #: NOT SUBMITTED
Job Reference: 60212492-200
C of C Numbers:
Legal Site Desc:

Gail Hill
Account Manager

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

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060060-1 SNL-01 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 16:17 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 2.30 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 3.03 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | <1.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 30.1 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 13.8 | | 1.0 | mg/L | | 21-SEP-11 | R2255160 |
| Hardness (as CaCO3) | 61.3 | | 0.30 | mg/L | | 28-SEP-11 | |
| Hardness (as CaCO3) | 61.3 | | 0.20 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.029 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 1.78 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 74.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Total Kjeldahl Nitrogen | 0.76 | | 0.20 | mg/L | 17-SEP-11 | 20-SEP-11 | R2254536 |
| Total Organic Carbon | 14.7 | | 1.0 | mg/L | | 21-SEP-11 | R2255160 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Turbidity | 1.17 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0501 | | 0.0050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Arsenic (As)-Total | 0.00344 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Barium (Ba)-Total | 0.00974 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Calcium (Ca)-Total | 16.0 | | 0.10 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Copper (Cu)-Total | 0.00217 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Iron (Fe)-Total | <0.10 | | 0.10 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Lead (Pb)-Total | 0.000116 | | 0.000090 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Lithium (Li)-Total | 0.0034 | | 0.0020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Magnesium (Mg)-Total | 5.88 | | 0.010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Manganese (Mn)-Total | 0.0282 | | 0.00030 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060060-1 SNL-01 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 16:17 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Potassium (K)-Total | 1.36 | | 0.020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Rubidium (Rb)-Total | 0.00114 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Silicon (Si)-Total | 1.80 | | 0.050 | mg/L | 22-SEP-11 | 27-SEP-11 | R2259333 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Sodium (Na)-Total | 3.08 | | 0.030 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Strontium (Sr)-Total | 0.0331 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Titanium (Ti)-Total | 0.00212 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Vanadium (V)-Total | 0.00036 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0053 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00310 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.00869 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 15.4 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00142 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0030 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 5.58 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00036 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | 0.00013 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 1.24 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00104 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.848 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 2.85 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0332 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060060-1 SNL-01 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 16:17 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00046 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 10.4 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| Phaeophytin a | 2.88 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 58.8 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 71.7 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 120 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 8.03 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060060-2 SNL-02 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 15:14 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 1.10 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 1.56 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.1 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | <1.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 27.5 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 14.3 | | 1.0 | mg/L | | 21-SEP-11 | R2255160 |
| Hardness (as CaCO3) | 54.0 | | 0.30 | mg/L | | 28-SEP-11 | |
| Hardness (as CaCO3) | 54.0 | | 0.20 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.019 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 3.94 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 54.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Total Kjeldahl Nitrogen | 0.67 | | 0.20 | mg/L | 17-SEP-11 | 20-SEP-11 | R2254536 |
| Total Organic Carbon | 15.5 | | 1.0 | mg/L | | 21-SEP-11 | R2255160 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060060-2 SNL-02 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 15:14 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Turbidity | 0.12 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0323 | | 0.0050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Arsenic (As)-Total | 0.00177 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Barium (Ba)-Total | 0.00832 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Calcium (Ca)-Total | 13.1 | | 0.10 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Copper (Cu)-Total | 0.00096 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Iron (Fe)-Total | <0.10 | | 0.10 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Lithium (Li)-Total | 0.0034 | | 0.0020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Magnesium (Mg)-Total | 4.74 | | 0.010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Manganese (Mn)-Total | 0.0356 | | 0.00030 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Potassium (K)-Total | 1.06 | | 0.020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Rubidium (Rb)-Total | 0.00108 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Silicon (Si)-Total | 2.91 | | 0.050 | mg/L | 22-SEP-11 | 27-SEP-11 | R2259333 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Sodium (Na)-Total | 2.25 | | 0.030 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Strontium (Sr)-Total | 0.0295 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Titanium (Ti)-Total | 0.00127 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Vanadium (V)-Total | 0.00023 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0043 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00164 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.00798 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 13.4 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060060-2 SNL-02 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 15:14 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00083 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0031 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 4.98 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00023 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 1.07 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00100 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 1.88 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 2.33 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0294 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00026 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.00020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 4.43 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| Phaeophytin a | 2.18 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 52.9 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 64.5 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 104 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 7.87 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060060-3 TRB-02 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 12:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060060-3 TRB-02 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 12:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.2 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | <1.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | <5.0 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | <1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2255160 |
| Hardness (as CaCO3) | <0.20 | | 0.20 | mg/L | | 28-SEP-11 | |
| Hardness (as CaCO3) | <0.30 | | 0.30 | mg/L | | 28-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | <0.010 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 0.0052 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | <5.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Total Kjeldahl Nitrogen | <0.20 | | 0.20 | mg/L | 17-SEP-11 | 20-SEP-11 | R2254536 |
| Total Organic Carbon | <1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2255160 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Turbidity | 0.10 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | <0.0050 | | 0.0050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Arsenic (As)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Barium (Ba)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Calcium (Ca)-Total | <0.10 | | 0.10 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 27-SEP-11 | R2259295 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Copper (Cu)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Iron (Fe)-Total | <0.10 | | 0.10 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Lithium (Li)-Total | <0.0020 | | 0.0020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Magnesium (Mg)-Total | <0.010 | | 0.010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Manganese (Mn)-Total | <0.00030 | | 0.00030 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 27-SEP-11 | R2259295 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Potassium (K)-Total | <0.020 | | 0.020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Rubidium (Rb)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Silicon (Si)-Total | <0.050 | | 0.050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Sodium (Na)-Total | <0.030 | | 0.030 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060060-3 TRB-02 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 12:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Strontium (Sr)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Titanium (Ti)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 22-SEP-11 | 27-SEP-11 | R2259295 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 22-SEP-11 | 23-SEP-11 | R2257881 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | <0.050 | | 0.050 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | <0.00020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | <0.020 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | <0.050 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | <0.020 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|------|----------|-----------|-----------|----------|
| L1060060-3 TRB-02 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 12:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | <0.10 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| Phaeophytin a | <0.10 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 4.8 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 5.9 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 0.96 | | 0.40 | umhos/cm | | 19-SEP-11 | R2254103 |
| pH | | | | | | | |
| pH | 5.92 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |

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

Reference Information

Qualifiers for Individual Samples Listed:

| Sample Number | Client ID | Qualifier | Description |
|---------------|-----------|-----------|---|
| L1060060-1 | SNL-01 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060060-2 | SNL-02 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060060-3 | TRB-02 | SFPL | Sample was Filtered and Preserved at the laboratory |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|--|---|
| ACY-L-8.3-PCT-WP | Water | Acidity | APHA 2310 B |
| Acidity is measured using auto-titration with sodium hydroxide to an endpoint of pH 8.3 | | | |
| ALK-TOT-WP | Water | Alkalinity | APHA 2320B |
| Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically. | | | |
| BR-IC-WP | Water | Bromide | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| C-DIS-ORG-WP | Water | Dissolved Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| C-TOT-ORG-WP | Water | Total Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| CHL,PHEO-FLUORO-WP | Water | Chlorophyll a, Pheophytin by fluorometry | EPA 445.0 |
| Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification. | | | |
| CL-IC-WP | Water | Chloride | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| COLOUR-TRUE-WP | Water | Colour, True | APHA 2120C |
| True colour in water is analyzed by discrete analyzer using the platinum-cobalt colourimetric method. Colour is pH dependant; unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit. | | | |
| CONSULT-BOD-CBOD-WP | Water | Carbonaceous BOD | APHA 5210 B-5 day Incub.-O ₂ electrode |
| A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis. | | | |
| EC-WP | Water | Conductivity | APHA 2510B |
| Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes. | | | |

Reference Information

Test Method References:

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

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 2540D |
| | | The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C. | |
| TURBIDITY-WP | Water | Turbidity | APHA 2130B (modified) |
| | | Turbidity in aqueous matrices is determined by the nephelometric method. | |

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

Page 1 of 17

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|-----------------|--------------------|--------|-----------|-------|------|--------|-----------|
| ACY-L-8.3-PCT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256906 | | | | | | | |
| WG1355010-3 | DUP | L1060044-1 | | | | | | |
| Acidity (as CaCO3) | | 2.8 | 2.7 | | mg/L | 6.0 | 25 | 21-SEP-11 |
| WG1355010-4 | DUP | L1060061-1 | | | | | | |
| Acidity (as CaCO3) | | 1.8 | 1.8 | | mg/L | 0.13 | 25 | 21-SEP-11 |
| WG1355010-5 | DUP | L1060062-5 | | | | | | |
| Acidity (as CaCO3) | | 1.0 | 1.1 | | mg/L | 4.0 | 25 | 21-SEP-11 |
| WG1355010-6 | DUP | L1060063-7 | | | | | | |
| Acidity (as CaCO3) | | 1.5 | 1.5 | | mg/L | 2.4 | 25 | 21-SEP-11 |
| WG1355010-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 106 | | % | | 70-130 | 21-SEP-11 |
| WG1355010-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | <1.0 | | mg/L | | 1 | 21-SEP-11 |
| ALK-TOT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-3 | CVS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 103 | | % | | 85-115 | 17-SEP-11 |
| WG1351525-4 | DUP | L1059370-11 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 5.1 | 5.9 | | mg/L | 14 | 20 | 17-SEP-11 |
| Bicarbonate (HCO3) | | 6.3 | 7.2 | | mg/L | 14 | 25 | 17-SEP-11 |
| Carbonate (CO3) | | <0.60 | <0.60 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| Hydroxide (OH) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 246 | 247 | | mg/L | 0.25 | 20 | 17-SEP-11 |
| Bicarbonate (HCO3) | | 274 | 270 | | mg/L | 1.3 | 25 | 17-SEP-11 |
| Carbonate (CO3) | | 9.36 | 11.5 | | mg/L | 20 | 25 | 17-SEP-11 |
| Hydroxide (OH) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| BR-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Bromide (Br) | | | 96 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Bromide (Br) | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| C-DIS-ORG-WP | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| C-DIS-ORG-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255160 | | | | | | | |
| WG1353005-2 | CVS | | | | | | | |
| Dissolved Organic Carbon | | | 99 | | % | | 80-120 | 20-SEP-11 |
| WG1352998-2 | DUP | L1060059-1 | | | | | | |
| Dissolved Organic Carbon | | 15.5 | 15.3 | | mg/L | 1.3 | 20 | 21-SEP-11 |
| WG1352998-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <1.0 | | mg/L | | 1 | 20-SEP-11 |
| C-TOT-ORG-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255160 | | | | | | | |
| WG1353005-2 | CVS | | | | | | | |
| Total Organic Carbon | | | 99 | | % | | 80-120 | 20-SEP-11 |
| WG1353005-1 | MB | | | | | | | |
| Total Organic Carbon | | | <1.0 | | mg/L | | 1 | 20-SEP-11 |
| CHL,PHEO-FLUORO-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256760 | | | | | | | |
| WG1354254-1 | CVS | | | | | | | |
| Chlorophyll a | | | 83 | | % | | 65-135 | 23-SEP-11 |
| WG1354254-2 | CVS | | | | | | | |
| Chlorophyll a | | | 115 | | % | | 65-135 | 23-SEP-11 |
| WG1354197-2 | DUP | L1059720-3 | | | | | | |
| Chlorophyll a | | 26.9 | 26.2 | | ug/L | 2.8 | 35 | 23-SEP-11 |
| Phaeophytin a | | 9.76 | 10.7 | | ug/L | 9.4 | 35 | 23-SEP-11 |
| WG1354197-3 | DUP | L1060060-1 | | | | | | |
| Chlorophyll a | | 10.4 | 11.4 | | ug/L | 8.7 | 35 | 23-SEP-11 |
| Phaeophytin a | | 2.88 | 3.28 | | ug/L | 13 | 35 | 23-SEP-11 |
| WG1354197-1 | MB | | | | | | | |
| Chlorophyll a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| Phaeophytin a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| CL-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Chloride | | 1.58 | 1.58 | | mg/L | 0.22 | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Chloride | | | 100 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Chloride | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Chloride | | | 107 | | % | | 75-125 | 19-SEP-11 |



Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|-------------------|--------|-----------|----------|------|--------|-----------|
| COLOUR-TRUE-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253828 | | | | | | | |
| WG1351569-3 | DUP | L1059499-2 | | | | | | |
| Colour, True | | 23.3 | 24.9 | | CU | 6.6 | 400 | 17-SEP-11 |
| WG1351569-4 | DUP | L1060060-2 | | | | | | |
| Colour, True | | 27.5 | 32.7 | | CU | 17 | 20 | 17-SEP-11 |
| WG1351569-2 | LCS | | | | | | | |
| Colour, True | | | 100 | | % | | 85-115 | 17-SEP-11 |
| WG1351569-1 | MB | | | | | | | |
| Colour, True | | | <5.0 | | CU | | 5 | 17-SEP-11 |
| CONSULT-BOD-CBOD-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255920 | | | | | | | |
| WG1351515-3 | DUP | L1060060-2 | | | | | | |
| WG1351515-4 | DUP | L1060062-7 | | | | | | |
| BOD Carbonaceous | | 2.0 | 2.1 | | mg/L | 4.9 | 400 | 22-SEP-11 |
| WG1351515-2 | IRM | 61-GG | | | | | | |
| BOD Carbonaceous | | | 93 | | % | | 85-115 | 22-SEP-11 |
| WG1351515-1 | MB | | | | | | | |
| BOD Carbonaceous | | | <1.0 | | mg/L | | 1 | 22-SEP-11 |
| EC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-1 | CVS | | | | | | | |
| Conductivity | | | 96 | | % | | 90-110 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| Conductivity | | 799 | 798 | | umhos/cm | 0.15 | 10 | 17-SEP-11 |
| Batch | R2254103 | | | | | | | |
| WG1351828-1 | CVS | | | | | | | |
| Conductivity | | | 99 | | % | | 90-110 | 19-SEP-11 |
| WG1351828-2 | DUP | L1060058-2 | | | | | | |
| Conductivity | | 0.98 | 0.97 | | umhos/cm | 1.0 | 400 | 19-SEP-11 |
| F-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Fluoride | | | 101 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Fluoride | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| HG-D-CVAF-WP | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|--------------------|-----------|-----------|-------|------|---------|-----------|
| HG-D-CVAF-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2264510 | | | | | | | |
| WG1363399-5 | DUP | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| WG1363399-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |
| WG1363399-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| WG1363406-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| WG1363399-6 | MS | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |
| HG-T-CVAF-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2263097 | | | | | | | |
| WG1361800-3 | DUP | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | <0.000050 | <0.000050 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-5 | DUP | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | <0.000050 | 0.000070 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 100 | | % | | 80-120 | 30-SEP-11 |
| WG1361800-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000050 | | mg/L | | 0.00005 | 30-SEP-11 |
| WG1361800-4 | MS | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | | 93 | | % | | 70-130 | 30-SEP-11 |
| WG1361800-6 | MS | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | | 85 | | % | | 70-130 | 30-SEP-11 |
| MET-D-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 | DUP | WG1356177-3 | | | | | | |
| Aluminum (Al)-Dissolved | | 2.03 | 1.99 | | mg/L | 1.8 | 20 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | 1.02 | 1.01 | | mg/L | 1.2 | 20 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | 1.00 | 1.01 | | mg/L | 0.34 | 20 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | 0.256 | 0.252 | | mg/L | 1.3 | 20 | 23-SEP-11 |



Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|---------|-----------|-------|------|-------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 | DUP | WG1356177-3 | | | | | | |
| Beryllium (Be)-Dissolved | | 0.105 | 0.101 | | mg/L | 3.4 | 20 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | 1.02 | 1.03 | | mg/L | 0.20 | 20 | 23-SEP-11 |
| Boron (B)-Dissolved | | 1.03 | 1.00 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | 0.103 | 0.106 | | mg/L | 2.7 | 20 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | 50.2 | 50.5 | | mg/L | 0.69 | 20 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | 0.0493 | 0.0489 | | mg/L | 0.70 | 20 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | 0.249 | 0.251 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | 0.257 | 0.256 | | mg/L | 0.20 | 20 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | 0.250 | 0.252 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | 1.00 | 1.01 | | mg/L | 0.49 | 20 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | 0.514 | 0.503 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | 0.263 | 0.254 | | mg/L | 3.7 | 20 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | 50.5 | 50.9 | | mg/L | 0.73 | 20 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | 0.247 | 0.252 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | 0.255 | 0.261 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | 0.513 | 0.520 | | mg/L | 1.4 | 20 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | 2.61 | 2.67 | | mg/L | 2.4 | 20 | 23-SEP-11 |
| Potassium (K)-Dissolved | | 51.8 | 50.9 | | mg/L | 1.8 | 20 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | 0.101 | 0.103 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | 1.01 | 1.01 | | mg/L | 0.29 | 20 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | 1.01 | 1.00 | | mg/L | 0.38 | 20 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | 0.108 | 0.113 | | mg/L | 4.5 | 20 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | 51.4 | 51.9 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | 0.254 | 0.262 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | 0.103 | 0.105 | | mg/L | 1.9 | 20 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | 1.04 | 1.03 | | mg/L | 1.3 | 20 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | 0.0988 | 0.101 | | mg/L | 2.2 | 25 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | 0.523 | 0.540 | | mg/L | 3.1 | 20 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | 0.252 | 0.258 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | 0.101 | 0.0999 | | mg/L | 1.0 | 20 | 23-SEP-11 |
| Uranium (U)-Dissolved | | 0.00518 | 0.00498 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | 0.511 | 0.519 | | mg/L | 1.6 | 20 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | 0.510 | 0.516 | | mg/L | | | 23-SEP-11 |



Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 | DUP | WG1356177-3 | | | | | | |
| Zinc (Zn)-Dissolved | | 0.510 | 0.516 | | mg/L | 1.2 | 20 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | 0.0994 | 0.103 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| WG1356177-2 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Boron (B)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Potassium (K)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | 108 | | % | | 80-120 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |



Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-2 | LCS | | | | | | | |
| Tin (Sn)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Uranium (U)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| WG1356177-1 | MB | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Boron (B)-Dissolved | | | <0.010 | | mg/L | | 0.03 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | <0.000010 | | mg/L | | 0.0002 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | | <0.050 | | mg/L | | 0.2 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | <0.0020 | | mg/L | | 0.002 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | <0.10 | | mg/L | | 0.1 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | <0.000090 | | mg/L | | 0.001 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | <0.0020 | | mg/L | | 0.01 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | | <0.010 | | mg/L | | 0.05 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | <0.0010 | | mg/L | | 0.002 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | <0.10 | | mg/L | | 0.5 | 23-SEP-11 |
| Potassium (K)-Dissolved | | | <0.020 | | mg/L | | 0.1 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | <0.0010 | | mg/L | | 0.005 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | <0.050 | | mg/L | | 0.3 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |



Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------|----------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-1 | MB | | | | | | | |
| Sodium (Na)-Dissolved | | | <0.020 | | mg/L | | 0.05 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | | <0.00010 | | mg/L | | 0.005 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | | <0.00020 | | mg/L | | 0.0006 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Uranium (U)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | | <0.00040 | | mg/L | | 0.001 | 23-SEP-11 |
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2257881 | | | | | | | |
| WG1354038-2 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 95 | | % | | 80-120 | 22-SEP-11 |
| Antimony (Sb)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Arsenic (As)-Total | | | 100 | | % | | 80-120 | 22-SEP-11 |
| Barium (Ba)-Total | | | 100 | | % | | 80-120 | 22-SEP-11 |
| Beryllium (Be)-Total | | | 103 | | % | | 80-120 | 22-SEP-11 |
| Bismuth (Bi)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Boron (B)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Cadmium (Cd)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Calcium (Ca)-Total | | | 102 | | % | | 80-120 | 22-SEP-11 |
| Cesium (Cs)-Total | | | 95 | | % | | 80-120 | 22-SEP-11 |
| Chromium (Cr)-Total | | | 95 | | % | | 80-120 | 22-SEP-11 |
| Cobalt (Co)-Total | | | 101 | | % | | 80-120 | 22-SEP-11 |
| Copper (Cu)-Total | | | 96 | | % | | 80-120 | 22-SEP-11 |
| Iron (Fe)-Total | | | 95 | | % | | 80-120 | 22-SEP-11 |
| Lead (Pb)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Lithium (Li)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Magnesium (Mg)-Total | | | 100 | | % | | 80-120 | 22-SEP-11 |
| Manganese (Mn)-Total | | | 95 | | % | | 80-120 | 22-SEP-11 |
| Molybdenum (Mo)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |



Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257881 | | | | | | | |
| WG1354038-2 | LCS | | | | | | | |
| Molybdenum (Mo)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Nickel (Ni)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Phosphorus (P)-Total | | | 100 | | % | | 80-120 | 22-SEP-11 |
| Potassium (K)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Rubidium (Rb)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Selenium (Se)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Silicon (Si)-Total | | | 96 | | % | | 80-120 | 22-SEP-11 |
| Silver (Ag)-Total | | | 104 | | % | | 80-120 | 22-SEP-11 |
| Sodium (Na)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Strontium (Sr)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Tellurium (Te)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Thallium (Tl)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Thorium (Th)-Total | | | 97 | | % | | 70-130 | 22-SEP-11 |
| Tin (Sn)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Titanium (Ti)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Tungsten (W)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Uranium (U)-Total | | | 99 | | % | | 80-120 | 22-SEP-11 |
| Vanadium (V)-Total | | | 98 | | % | | 80-120 | 22-SEP-11 |
| Zinc (Zn)-Total | | | 97 | | % | | 80-120 | 22-SEP-11 |
| Zirconium (Zr)-Total | | | 100 | | % | | 80-120 | 22-SEP-11 |
| WG1354038-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | <0.0050 | | mg/L | | 0.02 | 22-SEP-11 |
| Antimony (Sb)-Total | | | <0.00020 | | mg/L | | 0.001 | 22-SEP-11 |
| Arsenic (As)-Total | | | <0.00020 | | mg/L | | 0.001 | 22-SEP-11 |
| Barium (Ba)-Total | | | <0.00020 | | mg/L | | 0.0005 | 22-SEP-11 |
| Beryllium (Be)-Total | | | <0.00020 | | mg/L | | 0.001 | 22-SEP-11 |
| Bismuth (Bi)-Total | | | <0.00020 | | mg/L | | 0.0005 | 22-SEP-11 |
| Boron (B)-Total | | | <0.010 | | mg/L | | 0.03 | 22-SEP-11 |
| Cadmium (Cd)-Total | | | <0.000010 | | mg/L | | 0.0002 | 22-SEP-11 |
| Calcium (Ca)-Total | | | <0.10 | | mg/L | | 0.2 | 22-SEP-11 |
| Cesium (Cs)-Total | | | <0.00010 | | mg/L | | 0.0005 | 22-SEP-11 |
| Chromium (Cr)-Total | | | <0.0010 | | mg/L | | 0.002 | 22-SEP-11 |
| Cobalt (Co)-Total | | | <0.00020 | | mg/L | | 0.0005 | 22-SEP-11 |
| Copper (Cu)-Total | | | <0.00020 | | mg/L | | 0.002 | 22-SEP-11 |



Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2257881 | | | | | | | |
| WG1354038-1 | MB | | | | | | | |
| Iron (Fe)-Total | | | <0.10 | | mg/L | | 0.1 | 22-SEP-11 |
| Lead (Pb)-Total | | | <0.000090 | | mg/L | | 0.001 | 22-SEP-11 |
| Lithium (Li)-Total | | | <0.0020 | | mg/L | | 0.002 | 22-SEP-11 |
| Magnesium (Mg)-Total | | | <0.010 | | mg/L | | 0.05 | 22-SEP-11 |
| Manganese (Mn)-Total | | | <0.00030 | | mg/L | | 0.001 | 22-SEP-11 |
| Molybdenum (Mo)-Total | | | <0.00020 | | mg/L | | 0.0005 | 22-SEP-11 |
| Nickel (Ni)-Total | | | <0.0020 | | mg/L | | 0.002 | 22-SEP-11 |
| Phosphorus (P)-Total | | | <0.20 | | mg/L | | 0.5 | 22-SEP-11 |
| Potassium (K)-Total | | | <0.020 | | mg/L | | 0.1 | 22-SEP-11 |
| Rubidium (Rb)-Total | | | <0.00020 | | mg/L | | 0.0005 | 22-SEP-11 |
| Selenium (Se)-Total | | | <0.0010 | | mg/L | | 0.005 | 22-SEP-11 |
| Silicon (Si)-Total | | | <0.050 | | mg/L | | 0.3 | 22-SEP-11 |
| Silver (Ag)-Total | | | <0.00010 | | mg/L | | 0.001 | 22-SEP-11 |
| Sodium (Na)-Total | | | <0.030 | | mg/L | | 0.05 | 22-SEP-11 |
| Strontium (Sr)-Total | | | <0.00010 | | mg/L | | 0.0005 | 22-SEP-11 |
| Tellurium (Te)-Total | | | <0.00020 | | mg/L | | 0.001 | 22-SEP-11 |
| Thallium (Tl)-Total | | | <0.00010 | | mg/L | | 0.005 | 22-SEP-11 |
| Thorium (Th)-Total | | | <0.00010 | | mg/L | | 0.0001 | 22-SEP-11 |
| Tin (Sn)-Total | | | <0.00020 | | mg/L | | 0.0006 | 22-SEP-11 |
| Titanium (Ti)-Total | | | <0.00020 | | mg/L | | 0.001 | 22-SEP-11 |
| Tungsten (W)-Total | | | <0.0010 | | mg/L | | 0.002 | 22-SEP-11 |
| Uranium (U)-Total | | | <0.00010 | | mg/L | | 0.0005 | 22-SEP-11 |
| Vanadium (V)-Total | | | <0.00020 | | mg/L | | 0.002 | 22-SEP-11 |
| Zinc (Zn)-Total | | | <0.0050 | | mg/L | | 0.02 | 22-SEP-11 |
| Zirconium (Zr)-Total | | | <0.00040 | | mg/L | | 0.001 | 22-SEP-11 |
| N-TOTKJ-WP | | Water | | | | | | |
| Batch | R2254536 | | | | | | | |
| WG1352330-1 | CVS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 99 | | % | | 90-110 | 20-SEP-11 |
| WG1351730-4 | DUP | L1059417-1 | | | | | | |
| Total Kjeldahl Nitrogen | | 0.84 | 0.82 | | mg/L | 2.5 | 20 | 20-SEP-11 |
| WG1351730-6 | DUP | L1059720-6 | | | | | | |
| Total Kjeldahl Nitrogen | | 1.81 | 1.84 | | mg/L | 1.9 | 20 | 20-SEP-11 |
| WG1351730-2 | LCS | | | | | | | |



Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| N-TOTKJ-WP | | Water | | | | | | |
| Batch | R2254536 | | | | | | | |
| WG1351730-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 101 | | % | | 75-125 | 20-SEP-11 |
| WG1351730-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.20 | | mg/L | | 0.2 | 20-SEP-11 |
| WG1351730-3 | MS | L1059417-1 | | | | | | |
| Total Kjeldahl Nitrogen | | | 107 | | % | | 70-130 | 20-SEP-11 |
| WG1351730-5 | MS | L1059720-6 | | | | | | |
| Total Kjeldahl Nitrogen | | | N/A | MS-B | % | | - | 20-SEP-11 |
| NH3-COL-WP | | Water | | | | | | |
| Batch | R2260877 | | | | | | | |
| WG1359404-3 | DUP | L1060061-1 | | | | | | |
| Ammonia as N | | 0.062 | 0.062 | | mg/L | 0.65 | 20 | 29-SEP-11 |
| WG1359404-5 | DUP | L1062339-1 | | | | | | |
| Ammonia as N | | 20.9 | 20.9 | DLA | mg/L | 0.12 | 20 | 29-SEP-11 |
| WG1359404-7 | DUP | L1062578-4 | | | | | | |
| Ammonia as N | | 110 | 110 | DLA | mg/L | 0.13 | 20 | 29-SEP-11 |
| WG1359404-2 | LCS | | | | | | | |
| Ammonia as N | | | 105 | | % | | 85-115 | 29-SEP-11 |
| WG1359404-1 | MB | | | | | | | |
| Ammonia as N | | | <0.050 | | mg/L | | 0.05 | 29-SEP-11 |
| WG1359404-4 | MS | L1060058-2 | | | | | | |
| Ammonia as N | | | 104 | | % | | 75-125 | 29-SEP-11 |
| WG1359404-6 | MS | L1060062-5 | | | | | | |
| Ammonia as N | | | 95 | | % | | 75-125 | 29-SEP-11 |
| WG1359404-8 | MS | L1062345-3 | | | | | | |
| Ammonia as N | | | 106 | | % | | 75-125 | 29-SEP-11 |
| NO2-IC-WP | | Water | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Nitrite-N | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Nitrite-N | | | 96 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Nitrite-N | | | <0.050 | | mg/L | | 0.05 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Nitrite-N | | | 104 | | % | | 75-125 | 19-SEP-11 |
| NO3-IC-WP | | Water | | | | | | |



Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|--------|-----------|----------|-------|---------|-----------|
| NO3-IC-WP | | Water | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Nitrate-N | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Nitrate-N | | | 100 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Nitrate-N | | | <0.050 | | mg/L | | 0.05 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Nitrate-N | | | 108 | | % | | 75-125 | 19-SEP-11 |
| P-T-COL-WP | | Water | | | | | | |
| Batch | R2254917 | | | | | | | |
| WG1352018-3 | DUP | L1060058-1 | | | | | | |
| Phosphorus (P)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 20 | 20-SEP-11 |
| WG1352018-5 | DUP | L1060062-3 | | | | | | |
| Phosphorus (P)-Total | | 0.036 | 0.018 | J | mg/L | 0.011 | 0.02 | 20-SEP-11 |
| WG1352018-2 | LCS | | | | | | | |
| Phosphorus (P)-Total | | | 94 | | % | | 80-120 | 20-SEP-11 |
| WG1352018-1 | MB | | | | | | | |
| Phosphorus (P)-Total | | | <0.010 | | mg/L | | 0.01 | 20-SEP-11 |
| WG1352018-6 | MS | L1060063-2 | | | | | | |
| Phosphorus (P)-Total | | | 91 | | % | | 70-130 | 20-SEP-11 |
| WG1352018-7 | MS | L1060065-1 | | | | | | |
| Phosphorus (P)-Total | | | 85 | | % | | 70-130 | 20-SEP-11 |
| WG1352018-8 | MS | L1060115-1 | | | | | | |
| Phosphorus (P)-Total | | | 91 | | % | | 70-130 | 20-SEP-11 |
| PH-WP | | Water | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-4 | DUP | L1059370-11 | | | | | | |
| pH | | 6.40 | 6.29 | J | pH units | 0.11 | 0.2 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| pH | | 8.56 | 8.61 | J | pH units | 0.05 | 0.2 | 17-SEP-11 |
| WG1351525-2 | LCS | | | | | | | |
| pH | | | 7.41 | | pH units | | 7.3-7.5 | 17-SEP-11 |
| SIO2-L-COL-WP | | Water | | | | | | |
| Batch | R2258513 | | | | | | | |
| WG1356848-6 | DUP | L1057743-1 | | | | | | |
| Silica, Reactive (as SiO2) | | 0.321 | 0.323 | | mg/L | 0.70 | 20 | 24-SEP-11 |
| WG1356848-7 | DUP | L1059181-1 | | | | | | |



Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|-------------------|---------|-----------|-------|------|--------|-----------|
| SIO2-L-COL-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2258513 | | | | | | | |
| WG1356848-7 | DUP | L1059181-1 | | | | | | |
| Silica, Reactive (as SiO2) | | 0.0841 | 0.0838 | | mg/L | 0.32 | 20 | 24-SEP-11 |
| WG1356848-8 | DUP | L1060061-2 | | | | | | |
| Silica, Reactive (as SiO2) | | 4.04 | 4.49 | | mg/L | 11 | 20 | 24-SEP-11 |
| WG1356848-9 | DUP | L1060065-3 | | | | | | |
| Silica, Reactive (as SiO2) | | 2.66 | 2.57 | | mg/L | 3.6 | 20 | 24-SEP-11 |
| WG1356848-2 | LCS | | | | | | | |
| Silica, Reactive (as SiO2) | | | 100 | | % | | 85-115 | 24-SEP-11 |
| WG1356848-1 | MB | | | | | | | |
| Silica, Reactive (as SiO2) | | | <0.0050 | | mg/L | | 0.005 | 24-SEP-11 |
| WG1356848-3 | MS | L1060058-1 | | | | | | |
| Silica, Reactive (as SiO2) | | | 103 | | % | | 75-125 | 24-SEP-11 |
| WG1356848-4 | MS | L1060060-3 | | | | | | |
| Silica, Reactive (as SiO2) | | | 97 | | % | | 75-125 | 24-SEP-11 |
| WG1356848-5 | MS | L1060063-7 | | | | | | |
| Silica, Reactive (as SiO2) | | | 113 | | % | | 75-125 | 24-SEP-11 |
| SO4-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Sulfate | | | 102 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Sulfate | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |
| SOLIDS-TDS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2258740 | | | | | | | |
| WG1356052-2 | CVS | | | | | | | |
| Total Dissolved Solids | | | 100 | | % | | 85-115 | 26-SEP-11 |
| WG1356052-3 | DUP | L1059318-1 | | | | | | |
| Total Dissolved Solids | | 184 | 174 | | mg/L | 5.6 | 20 | 26-SEP-11 |
| WG1356052-4 | DUP | L1060044-1 | | | | | | |
| Total Dissolved Solids | | 344 | 330 | | mg/L | 4.2 | 20 | 26-SEP-11 |
| WG1356052-7 | DUP | L1063094-1 | | | | | | |
| Total Dissolved Solids | | 1390 | 1380 | | mg/L | 0.72 | 20 | 26-SEP-11 |
| WG1356052-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <5.0 | | mg/L | | 5 | 26-SEP-11 |
| SOLIDS-TOTSUS-WP | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| SOLIDS-TOTSUS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2258740 | | | | | | | |
| WG1356052-2 | CVS | | | | | | | |
| Total Suspended Solids | | | 94 | | % | | 85-115 | 26-SEP-11 |
| WG1356052-3 | DUP | L1059318-1 | | | | | | |
| Total Suspended Solids | | <5.0 | <5.0 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| WG1356052-4 | DUP | L1060044-1 | | | | | | |
| Total Suspended Solids | | 7.0 | 8.0 | | mg/L | 13 | 400 | 26-SEP-11 |
| WG1356052-6 | DUP | L1062836-2 | | | | | | |
| Total Suspended Solids | | 60.0 | 61.4 | | mg/L | 2.4 | 20 | 26-SEP-11 |
| WG1356052-7 | DUP | L1063094-1 | | | | | | |
| Total Suspended Solids | | 500 | 510 | | mg/L | 2.0 | 20 | 26-SEP-11 |
| WG1356052-1 | MB | | | | | | | |
| Total Suspended Solids | | | <5.0 | | mg/L | | 5 | 26-SEP-11 |
| TURBIDITY-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2254943 | | | | | | | |
| WG1352212-3 | DUP | L1059370-5 | | | | | | |
| Turbidity | | 0.63 | 0.63 | | NTU | 0.32 | 15 | 17-SEP-11 |
| WG1352212-4 | DUP | L1060062-7 | | | | | | |
| Turbidity | | 2.21 | 2.20 | | NTU | 0.45 | 15 | 17-SEP-11 |
| WG1352212-2 | LCS | | | | | | | |
| Turbidity | | | 98 | | % | | 85-115 | 17-SEP-11 |
| WG1352212-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 17-SEP-11 |

Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

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Contact: Clifton Samoiloff

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|--|
| DLA | Detection Limit Adjusted For required dilution |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|--|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Total Dissolved Solids | | | | | | | |
| | 1 | 14-SEP-11 16:17 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| | 2 | 14-SEP-11 15:14 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| | 3 | 14-SEP-11 12:00 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| Total Suspended Solids | | | | | | | |
| | 1 | 14-SEP-11 16:17 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| | 2 | 14-SEP-11 15:14 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| | 3 | 14-SEP-11 12:00 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| Turbidity | | | | | | | |
| | 1 | 14-SEP-11 16:17 | 17-SEP-11 09:12 | 48 | 65 | hours | EHTR |
| | 2 | 14-SEP-11 15:14 | 17-SEP-11 09:12 | 48 | 66 | hours | EHTR |
| | 3 | 14-SEP-11 12:00 | 17-SEP-11 09:12 | 48 | 69 | hours | EHTR |
| pH | | | | | | | |
| | 1 | 14-SEP-11 16:17 | 17-SEP-11 10:39 | 0.25 | 66 | hours | EHTR-FM |
| | 2 | 14-SEP-11 15:14 | 17-SEP-11 10:39 | 0.25 | 67 | hours | EHTR-FM |
| | 3 | 14-SEP-11 12:00 | 17-SEP-11 10:39 | 0.25 | 71 | hours | EHTR-FM |
| Anions and Nutrients | | | | | | | |
| Bromide | | | | | | | |
| | 1 | 14-SEP-11 16:17 | 19-SEP-11 14:41 | 48 | 118 | hours | EHTR |
| | 2 | 14-SEP-11 15:14 | 19-SEP-11 14:41 | 48 | 120 | hours | EHTR |
| | 3 | 14-SEP-11 12:00 | 19-SEP-11 14:41 | 48 | 123 | hours | EHTR |
| Colour, True | | | | | | | |
| | 1 | 14-SEP-11 16:17 | 17-SEP-11 18:52 | 48 | 75 | hours | EHTR |
| | 2 | 14-SEP-11 15:14 | 17-SEP-11 18:58 | 48 | 76 | hours | EHTR |
| | 3 | 14-SEP-11 12:00 | 17-SEP-11 18:58 | 48 | 79 | hours | EHTR |
| Nitrate as N | | | | | | | |
| | 1 | 14-SEP-11 16:17 | 19-SEP-11 14:41 | 48 | 118 | hours | EHTR |
| | 2 | 14-SEP-11 15:14 | 19-SEP-11 14:41 | 48 | 120 | hours | EHTR |
| | 3 | 14-SEP-11 12:00 | 19-SEP-11 14:41 | 48 | 123 | hours | EHTR |
| Nitrite as N | | | | | | | |
| | 1 | 14-SEP-11 16:17 | 19-SEP-11 14:41 | 48 | 118 | hours | EHTR |
| | 2 | 14-SEP-11 15:14 | 19-SEP-11 14:41 | 48 | 120 | hours | EHTR |
| | 3 | 14-SEP-11 12:00 | 19-SEP-11 14:41 | 48 | 123 | hours | EHTR |
| Phosphorus, Total | | | | | | | |
| | 1 | 14-SEP-11 16:17 | 19-SEP-11 17:44 | 48 | 121 | hours | EHTR |
| | 2 | 14-SEP-11 15:14 | 19-SEP-11 17:44 | 48 | 122 | hours | EHTR |
| | 3 | 14-SEP-11 12:00 | 19-SEP-11 17:44 | 48 | 126 | hours | EHTR |
| Aggregate Organics | | | | | | | |
| Carbonaceous BOD | | | | | | | |
| | 1 | 14-SEP-11 16:17 | 17-SEP-11 10:32 | 48 | 66 | hours | EHTR |
| | 2 | 14-SEP-11 15:14 | 17-SEP-11 10:32 | 48 | 67 | hours | EHTR |
| | 3 | 14-SEP-11 12:00 | 17-SEP-11 10:32 | 48 | 71 | hours | EHTR |
| Organic Parameters | | | | | | | |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| | 1 | 14-SEP-11 16:17 | 17-SEP-11 10:30 | 48 | 66 | hours | EHTR |
| | 2 | 14-SEP-11 15:14 | 17-SEP-11 10:30 | 48 | 67 | hours | EHTR |
| | 3 | 14-SEP-11 12:00 | 17-SEP-11 10:30 | 48 | 71 | hours | EHTR |

Legend & Qualifier Definitions:

Quality Control Report

Workorder: L1060060

Report Date: 06-OCT-11

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

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Contact: Clifton Samoiloff

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

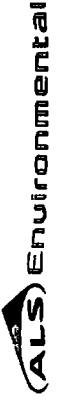
Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1060060 were received on 17-SEP-11 10:30.

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.

L1060060



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

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

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

| Sample # | Sample Identification (This description will appear on the report) | Date (dd-mm-yy) | Time (hh:mm) | Sampler: | Sample Type | Number of Containers | | | | | | | | |
|----------|---|--------------------|-----------------|------------------|-------------|---------------------------|----------------------------|--------------------------------|--------------|------|-------------------|---------------------|-------------------------|----------|
| | | | | | | Chlorophylla / Pheophytin | Acidity, Colour, Turbidity | Antons, Br, silica, ph.ec, Alk | NH3, TKN, PT | CBOD | Solids (TSS, TDS) | Metals & Hg - Total | Metals & Hg - Dissolved | TOC, DOC |
| | SNL-01 | 14 Sep 11 | 16:17 | Christine Herrod | water | X | X | X | X | X | X | X | X | 6 |
| | SNL-02 | ↓ | 15:14 | | ↓ | X | X | X | X | X | X | X | X | 6 |
| | TRB-02 | ↓ | 12:00 | | ↓ | X | X | X | X | X | X | X | X | 6 |

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

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: *by* Received by: *by* Date: *Sep 17* Time: *10:30* Temperature: *10* °C

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

Observations: Yes / No ?
 IF Yes add SIF



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

Date Received: 17-SEP-11
Report Date: 06-OCT-11 15:10 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1060061
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-300
C of C Numbers:
Legal Site Desc:

Gail Hill
Account Manager

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ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060061-1 NTL-01 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 12:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 0.67 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.8 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | 0.062 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 1.4 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 78.3 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 28.0 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Hardness (as CaCO3) | 31.5 | | 0.30 | mg/L | | 27-SEP-11 | |
| Hardness (as CaCO3) | 25.3 | | 0.20 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.011 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 1.24 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 36.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Total Kjeldahl Nitrogen | 1.14 | | 0.20 | mg/L | 17-SEP-11 | 20-SEP-11 | R2254536 |
| Total Organic Carbon | 29.5 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Turbidity | 1.28 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0636 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Arsenic (As)-Total | 0.00105 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Barium (Ba)-Total | 0.0122 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Calcium (Ca)-Total | 8.49 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Copper (Cu)-Total | 0.00042 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Iron (Fe)-Total | 0.16 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lithium (Li)-Total | <0.0020 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Magnesium (Mg)-Total | 2.49 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Manganese (Mn)-Total | 0.0373 | | 0.00030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060061-1 NTL-01 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 12:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Potassium (K)-Total | 0.561 | | 0.020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Rubidium (Rb)-Total | 0.00100 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silicon (Si)-Total | 1.17 | | 0.050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Sodium (Na)-Total | 0.939 | | 0.030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Strontium (Sr)-Total | 0.0137 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Titanium (Ti)-Total | 0.00024 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0406 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00098 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0115 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 6.67 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00048 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 2.10 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00250 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 0.440 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00087 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.556 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 0.770 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0123 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060061-1 NTL-01 Sampled By: CLIENT on 14-SEP-11 @ 12:00 Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | 0.0024 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 4.87 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| Phaeophytin a | 2.68 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 20.6 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 25.1 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 47.0 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 7.32 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060061-2 GSL-01 Sampled By: CLIENT on 14-SEP-11 @ 09:50 Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.4 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | <1.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 85.7 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 21.7 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Hardness (as CaCO3) | 49.9 | | 0.20 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 51.8 | | 0.30 | mg/L | | 27-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.011 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 4.04 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 68.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Total Kjeldahl Nitrogen | 0.74 | | 0.20 | mg/L | 17-SEP-11 | 20-SEP-11 | R2254536 |
| Total Organic Carbon | 22.9 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060061-2 GSL-01 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 09:50 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Turbidity | 1.05 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0093 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Arsenic (As)-Total | 0.00127 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Barium (Ba)-Total | 0.00672 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Calcium (Ca)-Total | 14.5 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Copper (Cu)-Total | 0.00021 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Iron (Fe)-Total | 0.51 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lithium (Li)-Total | 0.0030 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Magnesium (Mg)-Total | 3.78 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Manganese (Mn)-Total | 0.0385 | | 0.00030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Potassium (K)-Total | 0.423 | | 0.020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Rubidium (Rb)-Total | 0.00057 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silicon (Si)-Total | 3.32 | | 0.050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Sodium (Na)-Total | 1.12 | | 0.030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Strontium (Sr)-Total | 0.0195 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Titanium (Ti)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0048 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00123 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.00583 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 13.9 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------------------------|------------|----------|----------|-----------|-----------|----------|
| L1060061-2 | GSL-01 | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 09:50 | | | | | | |
| Matrix: | WATER | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | 0.25 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 3.70 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00104 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 0.415 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00055 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 2.66 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 1.11 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0208 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.00020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 2.70 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| Phaeophytin a | 1.85 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 46.5 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 56.7 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 88.6 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 7.79 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060061-3 | UL1-01 | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 14:15 | | | | | | |
| Matrix: | WATER | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060061-3 UL1-01 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 14:15 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 1.03 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.6 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | 0.128 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 2.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 63.2 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 28.0 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Hardness (as CaCO3) | 30.2 | | 0.20 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 33.4 | | 0.30 | mg/L | | 27-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.024 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 1.41 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 44.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Total Kjeldahl Nitrogen | 1.67 | | 0.20 | mg/L | 17-SEP-11 | 20-SEP-11 | R2254536 |
| Total Organic Carbon | 30.7 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Total Suspended Solids | 5.0 | | 5.0 | mg/L | | 26-SEP-11 | R2258740 |
| Turbidity | 2.41 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0700 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Arsenic (As)-Total | 0.00106 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Barium (Ba)-Total | 0.0208 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Calcium (Ca)-Total | 10.4 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Copper (Cu)-Total | 0.00128 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Iron (Fe)-Total | 0.11 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lead (Pb)-Total | 0.000120 | | 0.000090 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lithium (Li)-Total | 0.0024 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Magnesium (Mg)-Total | 1.79 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Manganese (Mn)-Total | 0.0268 | | 0.00030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Potassium (K)-Total | 0.786 | | 0.020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Rubidium (Rb)-Total | 0.00157 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silicon (Si)-Total | 1.32 | | 0.050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Sodium (Na)-Total | 0.848 | | 0.030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060061-3 UL1-01 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 14:15 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Strontium (Sr)-Total | 0.0174 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Titanium (Ti)-Total | 0.00048 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Vanadium (V)-Total | 0.00030 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0418 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00096 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0189 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 9.36 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00099 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 1.66 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00369 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 0.701 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00145 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.650 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 0.777 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0169 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00023 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|------|----------|-----------|-----------|----------|
| L1060061-3 UL1-01 | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 14:15 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 7.18 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| Phaeophytin a | 3.70 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO ₃) | 26.4 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO ₃) | 32.2 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO ₃) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 58.4 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 7.45 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |

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

Reference Information

Qualifiers for Individual Samples Listed:

| Sample Number | Client ID | Qualifier | Description |
|---------------|-----------|-----------|---|
| L1060061-1 | NTL-01 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060061-2 | GSL-01 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060061-3 | UL1-01 | SFPL | Sample was Filtered and Preserved at the laboratory |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|--|---|
| ACY-L-8.3-PCT-WP | Water | Acidity | APHA 2310 B |
| Acidity is measured using auto-titration with sodium hydroxide to an endpoint of pH 8.3 | | | |
| ALK-TOT-WP | Water | Alkalinity | APHA 2320B |
| Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically. | | | |
| BR-IC-WP | Water | Bromide | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| C-DIS-ORG-WP | Water | Dissolved Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. | | | |
| TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| C-TOT-ORG-WP | Water | Total Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. | | | |
| TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| CHL,PHEO-FLUORO-WP | Water | Chlorophyll a, Pheophytin by fluorometry | EPA 445.0 |
| Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification. | | | |
| CL-IC-WP | Water | Chloride | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| COLOUR-TRUE-WP | Water | Colour, True | APHA 2120C |
| True colour in water is analyzed by discrete analyzer using the platinum-cobalt colourimetric method. Colour is pH dependant; unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit. | | | |
| CONSULT-BOD-CBOD-WP | Water | Carbonaceous BOD | APHA 5210 B-5 day Incub.-O ₂ electrode |
| A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis. | | | |
| EC-WP | Water | Conductivity | APHA 2510B |
| 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. | | | |

Reference Information

Test Method References:

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

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 2540D |
| | | The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C. | |
| TURBIDITY-WP | Water | Turbidity | APHA 2130B (modified) |
| | | Turbidity in aqueous matrices is determined by the nephelometric method. | |

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|-----------------|--------------------|--------|-----------|-------|------|--------|-----------|
| ACY-L-8.3-PCT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256906 | | | | | | | |
| WG1355010-3 | DUP | L1060044-1 | | | | | | |
| Acidity (as CaCO3) | | 2.8 | 2.7 | | mg/L | 6.0 | 25 | 21-SEP-11 |
| WG1355010-4 | DUP | L1060061-1 | | | | | | |
| Acidity (as CaCO3) | | 1.8 | 1.8 | | mg/L | 0.13 | 25 | 21-SEP-11 |
| WG1355010-5 | DUP | L1060062-5 | | | | | | |
| Acidity (as CaCO3) | | 1.0 | 1.1 | | mg/L | 4.0 | 25 | 21-SEP-11 |
| WG1355010-6 | DUP | L1060063-7 | | | | | | |
| Acidity (as CaCO3) | | 1.5 | 1.5 | | mg/L | 2.4 | 25 | 21-SEP-11 |
| WG1355010-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 106 | | % | | 70-130 | 21-SEP-11 |
| WG1355010-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | <1.0 | | mg/L | | 1 | 21-SEP-11 |
| ALK-TOT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-3 | CVS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 103 | | % | | 85-115 | 17-SEP-11 |
| WG1351525-4 | DUP | L1059370-11 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 5.1 | 5.9 | | mg/L | 14 | 20 | 17-SEP-11 |
| Bicarbonate (HCO3) | | 6.3 | 7.2 | | mg/L | 14 | 25 | 17-SEP-11 |
| Carbonate (CO3) | | <0.60 | <0.60 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| Hydroxide (OH) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 246 | 247 | | mg/L | 0.25 | 20 | 17-SEP-11 |
| Bicarbonate (HCO3) | | 274 | 270 | | mg/L | 1.3 | 25 | 17-SEP-11 |
| Carbonate (CO3) | | 9.36 | 11.5 | | mg/L | 20 | 25 | 17-SEP-11 |
| Hydroxide (OH) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| BR-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Bromide (Br) | | | 96 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Bromide (Br) | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| C-DIS-ORG-WP | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| C-DIS-ORG-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255889 | | | | | | | |
| WG1353838-2 | CVS | | | | | | | |
| Dissolved Organic Carbon | | | 101 | | % | | 80-120 | 21-SEP-11 |
| WG1353829-2 | DUP | L1060062-5 | | | | | | |
| Dissolved Organic Carbon | | 21.6 | 21.5 | | mg/L | 0.47 | 20 | 21-SEP-11 |
| WG1353829-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <1.0 | | mg/L | | 1 | 21-SEP-11 |
| C-TOT-ORG-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255889 | | | | | | | |
| WG1353838-2 | CVS | | | | | | | |
| Total Organic Carbon | | | 101 | | % | | 80-120 | 21-SEP-11 |
| WG1353838-3 | DUP | L1060061-1 | | | | | | |
| Total Organic Carbon | | 29.5 | 29.6 | | mg/L | 0.18 | 20 | 21-SEP-11 |
| WG1353838-1 | MB | | | | | | | |
| Total Organic Carbon | | | <1.0 | | mg/L | | 1 | 21-SEP-11 |
| CHL,PHEO-FLUORO-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256760 | | | | | | | |
| WG1354254-1 | CVS | | | | | | | |
| Chlorophyll a | | | 83 | | % | | 65-135 | 23-SEP-11 |
| WG1354254-2 | CVS | | | | | | | |
| Chlorophyll a | | | 115 | | % | | 65-135 | 23-SEP-11 |
| WG1354197-2 | DUP | L1059720-3 | | | | | | |
| Chlorophyll a | | 26.9 | 26.2 | | ug/L | 2.8 | 35 | 23-SEP-11 |
| Phaeophytin a | | 9.76 | 10.7 | | ug/L | 9.4 | 35 | 23-SEP-11 |
| WG1354197-3 | DUP | L1060060-1 | | | | | | |
| Chlorophyll a | | 10.4 | 11.4 | | ug/L | 8.7 | 35 | 23-SEP-11 |
| Phaeophytin a | | 2.88 | 3.28 | | ug/L | 13 | 35 | 23-SEP-11 |
| WG1354197-1 | MB | | | | | | | |
| Chlorophyll a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| Phaeophytin a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| CL-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Chloride | | 1.58 | 1.58 | | mg/L | 0.22 | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Chloride | | | 100 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Chloride | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|------------|--------|-----------|----------|------|--------|-----------|
| CL-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Chloride | | | 107 | | % | | 75-125 | 19-SEP-11 |
| COLOUR-TRUE-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253828 | | | | | | | |
| WG1351569-3 | DUP | L1059499-2 | | | | | | |
| Colour, True | | 23.3 | 24.9 | | CU | 6.6 | 400 | 17-SEP-11 |
| WG1351569-4 | DUP | L1060060-2 | | | | | | |
| Colour, True | | 27.5 | 32.7 | | CU | 17 | 20 | 17-SEP-11 |
| WG1351569-2 | LCS | | | | | | | |
| Colour, True | | | 100 | | % | | 85-115 | 17-SEP-11 |
| WG1351569-1 | MB | | | | | | | |
| Colour, True | | | <5.0 | | CU | | 5 | 17-SEP-11 |
| CONSULT-BOD-CBOD-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255920 | | | | | | | |
| WG1351515-3 | DUP | L1060060-2 | | | | | | |
| WG1351515-4 | DUP | L1060062-7 | | | | | | |
| BOD Carbonaceous | | 2.0 | 2.1 | | mg/L | 4.9 | 400 | 22-SEP-11 |
| WG1351515-2 | IRM | 61-GG | | | | | | |
| BOD Carbonaceous | | | 93 | | % | | 85-115 | 22-SEP-11 |
| WG1351515-1 | MB | | | | | | | |
| BOD Carbonaceous | | | <1.0 | | mg/L | | 1 | 22-SEP-11 |
| EC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-1 | CVS | | | | | | | |
| Conductivity | | | 96 | | % | | 90-110 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| Conductivity | | 799 | 798 | | umhos/cm | 0.15 | 10 | 17-SEP-11 |
| F-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Fluoride | | | 101 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Fluoride | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| HG-D-CVAF-WP | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|-----------|-----------|-------|------|---------|-----------|
| HG-D-CVAF-WP | | Water | | | | | | |
| Batch | R2264510 | | | | | | | |
| WG1363399-5 | DUP | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| WG1363399-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |
| WG1363399-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| WG1363399-6 | MS | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |
| HG-T-CVAF-WP | | Water | | | | | | |
| Batch | R2263097 | | | | | | | |
| WG1361800-3 | DUP | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | <0.000050 | <0.000050 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-5 | DUP | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | <0.000050 | 0.000070 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 100 | | % | | 80-120 | 30-SEP-11 |
| WG1361800-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000050 | | mg/L | | 0.00005 | 30-SEP-11 |
| WG1361800-4 | MS | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | | 93 | | % | | 70-130 | 30-SEP-11 |
| WG1361800-6 | MS | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | | 85 | | % | | 70-130 | 30-SEP-11 |
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 | DUP | WG1356177-3 | | | | | | |
| Aluminum (Al)-Dissolved | | 2.03 | 1.99 | | mg/L | 1.8 | 20 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | 1.02 | 1.01 | | mg/L | 1.2 | 20 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | 1.00 | 1.01 | | mg/L | 0.34 | 20 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | 0.256 | 0.252 | | mg/L | 1.3 | 20 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | 0.105 | 0.101 | | mg/L | 3.4 | 20 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | 1.02 | 1.03 | | mg/L | 0.20 | 20 | 23-SEP-11 |
| Boron (B)-Dissolved | | 1.03 | 1.00 | | mg/L | 2.9 | 20 | 23-SEP-11 |



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|---------|-----------|-------|------|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 | DUP | WG1356177-3 | | | | | | |
| Cadmium (Cd)-Dissolved | | 0.103 | 0.106 | | mg/L | 2.7 | 20 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | 50.2 | 50.5 | | mg/L | 0.69 | 20 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | 0.0493 | 0.0489 | | mg/L | 0.70 | 20 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | 0.249 | 0.251 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | 0.257 | 0.256 | | mg/L | 0.20 | 20 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | 0.250 | 0.252 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | 1.00 | 1.01 | | mg/L | 0.49 | 20 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | 0.514 | 0.503 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | 0.263 | 0.254 | | mg/L | 3.7 | 20 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | 50.5 | 50.9 | | mg/L | 0.73 | 20 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | 0.247 | 0.252 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | 0.255 | 0.261 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | 0.513 | 0.520 | | mg/L | 1.4 | 20 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | 2.61 | 2.67 | | mg/L | 2.4 | 20 | 23-SEP-11 |
| Potassium (K)-Dissolved | | 51.8 | 50.9 | | mg/L | 1.8 | 20 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | 0.101 | 0.103 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | 1.01 | 1.01 | | mg/L | 0.29 | 20 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | 1.01 | 1.00 | | mg/L | 0.38 | 20 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | 0.108 | 0.113 | | mg/L | 4.5 | 20 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | 51.4 | 51.9 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | 0.254 | 0.262 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | 0.103 | 0.105 | | mg/L | 1.9 | 20 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | 1.04 | 1.03 | | mg/L | 1.3 | 20 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | 0.0988 | 0.101 | | mg/L | 2.2 | 25 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | 0.523 | 0.540 | | mg/L | 3.1 | 20 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | 0.252 | 0.258 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | 0.101 | 0.0999 | | mg/L | 1.0 | 20 | 23-SEP-11 |
| Uranium (U)-Dissolved | | 0.00518 | 0.00498 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | 0.511 | 0.519 | | mg/L | 1.6 | 20 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | 0.510 | 0.516 | | mg/L | 1.2 | 20 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | 0.0994 | 0.103 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| WG1356177-2 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------|--------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-2 | LCS | | | | | | | |
| Antimony (Sb)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Boron (B)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Potassium (K)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | 108 | | % | | 80-120 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-2 | LCS | | | | | | | |
| Uranium (U)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| WG1356177-1 | MB | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Boron (B)-Dissolved | | | <0.010 | | mg/L | | 0.03 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | <0.000010 | | mg/L | | 0.0002 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | | <0.050 | | mg/L | | 0.2 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | <0.0020 | | mg/L | | 0.002 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | <0.10 | | mg/L | | 0.1 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | <0.000090 | | mg/L | | 0.001 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | <0.0020 | | mg/L | | 0.01 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | | <0.010 | | mg/L | | 0.05 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | <0.0010 | | mg/L | | 0.002 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | <0.10 | | mg/L | | 0.5 | 23-SEP-11 |
| Potassium (K)-Dissolved | | | <0.020 | | mg/L | | 0.1 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | <0.0010 | | mg/L | | 0.005 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | <0.050 | | mg/L | | 0.3 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | | <0.020 | | mg/L | | 0.05 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-1 | MB | | | | | | | |
| Thallium (Tl)-Dissolved | | | <0.00010 | | mg/L | | 0.005 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | | <0.00020 | | mg/L | | 0.0006 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Uranium (U)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | | <0.00040 | | mg/L | | 0.001 | 23-SEP-11 |
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2258458 | | | | | | | |
| WG1356012-4 | DUP | WG1356012-3 | | | | | | |
| Aluminum (Al)-Total | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Antimony (Sb)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Arsenic (As)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Barium (Ba)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Beryllium (Be)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Bismuth (Bi)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Boron (B)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Cadmium (Cd)-Total | | <0.000010 | <0.000010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Calcium (Ca)-Total | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Cesium (Cs)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Chromium (Cr)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Cobalt (Co)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Copper (Cu)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Iron (Fe)-Total | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Lead (Pb)-Total | | <0.000090 | <0.000090 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Lithium (Li)-Total | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Magnesium (Mg)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Manganese (Mn)-Total | | <0.00030 | <0.00030 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Molybdenum (Mo)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Nickel (Ni)-Total | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Phosphorus (P)-Total | | <0.20 | <0.20 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|-----------|-----------|-------|------|-------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2258458 | | | | | | | |
| WG1356012-4 DUP | | WG1356012-3 | | | | | | |
| Potassium (K)-Total | | <0.020 | <0.020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Rubidium (Rb)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Selenium (Se)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Silicon (Si)-Total | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Silver (Ag)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Sodium (Na)-Total | | <0.030 | <0.030 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Strontium (Sr)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Tellurium (Te)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Thallium (Tl)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Thorium (Th)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 25 | 26-SEP-11 |
| Tin (Sn)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Titanium (Ti)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Tungsten (W)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Uranium (U)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Vanadium (V)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Zinc (Zn)-Total | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Zirconium (Zr)-Total | | <0.00040 | <0.00040 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| WG1356012-6 DUP | | WG1356012-5 | | | | | | |
| Aluminum (Al)-Total | | 0.0800 | 0.0700 | | mg/L | 13 | 20 | 26-SEP-11 |
| Antimony (Sb)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Arsenic (As)-Total | | 0.00287 | 0.00279 | | mg/L | 2.8 | 20 | 26-SEP-11 |
| Barium (Ba)-Total | | 0.0108 | 0.0108 | | mg/L | 0.27 | 20 | 26-SEP-11 |
| Beryllium (Be)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Bismuth (Bi)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Boron (B)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Cadmium (Cd)-Total | | <0.000010 | <0.000010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Calcium (Ca)-Total | | 19.5 | 19.0 | | mg/L | 2.4 | 20 | 26-SEP-11 |
| Cesium (Cs)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Chromium (Cr)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Cobalt (Co)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Copper (Cu)-Total | | 0.00135 | 0.00126 | | mg/L | 6.6 | 20 | 26-SEP-11 |
| Iron (Fe)-Total | | 0.12 | 0.12 | | mg/L | 5.5 | 400 | 26-SEP-11 |
| Lead (Pb)-Total | | <0.000090 | <0.000090 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|----------|-----------|-------|------|--------|-----------|
| MET-T-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2258458 | | | | | | | |
| WG1356012-6 | DUP | WG1356012-5 | | | | | | |
| Lithium (Li)-Total | | 0.0042 | 0.0040 | | mg/L | 6.1 | 400 | 26-SEP-11 |
| Magnesium (Mg)-Total | | 8.30 | 8.20 | | mg/L | 1.2 | 20 | 26-SEP-11 |
| Manganese (Mn)-Total | | 0.0401 | 0.0397 | | mg/L | 0.96 | 20 | 26-SEP-11 |
| Molybdenum (Mo)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Nickel (Ni)-Total | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Phosphorus (P)-Total | | <0.20 | <0.20 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Potassium (K)-Total | | 1.40 | 1.31 | | mg/L | 6.7 | 20 | 26-SEP-11 |
| Rubidium (Rb)-Total | | 0.00142 | 0.00138 | | mg/L | 2.4 | 20 | 26-SEP-11 |
| Selenium (Se)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Silicon (Si)-Total | | 1.98 | 2.15 | | mg/L | 8.3 | 20 | 26-SEP-11 |
| Silver (Ag)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Sodium (Na)-Total | | 3.77 | 3.74 | | mg/L | 0.94 | 20 | 26-SEP-11 |
| Strontium (Sr)-Total | | 0.0475 | 0.0465 | | mg/L | 2.2 | 20 | 26-SEP-11 |
| Tellurium (Te)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Thallium (Tl)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Thorium (Th)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 25 | 26-SEP-11 |
| Tin (Sn)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Tungsten (W)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Uranium (U)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Vanadium (V)-Total | | 0.00055 | 0.00050 | | mg/L | 9.0 | 400 | 26-SEP-11 |
| Zinc (Zn)-Total | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Zirconium (Zr)-Total | | <0.00040 | <0.00040 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| WG1356012-2 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 98 | | % | | 80-120 | 26-SEP-11 |
| Antimony (Sb)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |
| Arsenic (As)-Total | | | 97 | | % | | 80-120 | 26-SEP-11 |
| Barium (Ba)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |
| Beryllium (Be)-Total | | | 102 | | % | | 80-120 | 26-SEP-11 |
| Bismuth (Bi)-Total | | | 97 | | % | | 80-120 | 26-SEP-11 |
| Boron (B)-Total | | | 105 | | % | | 80-120 | 26-SEP-11 |
| Cadmium (Cd)-Total | | | 100 | | % | | 80-120 | 26-SEP-11 |
| Calcium (Ca)-Total | | | 107 | | % | | 80-120 | 26-SEP-11 |
| Cesium (Cs)-Total | | | 93 | | % | | 80-120 | 26-SEP-11 |



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------|----------|-----------|-------|-----|--------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2258458 | | | | | | | |
| WG1356012-2 | LCS | | | | | | | |
| Chromium (Cr)-Total | | | 102 | | % | | 80-120 | 26-SEP-11 |
| Cobalt (Co)-Total | | | 97 | | % | | 80-120 | 26-SEP-11 |
| Copper (Cu)-Total | | | 97 | | % | | 80-120 | 26-SEP-11 |
| Iron (Fe)-Total | | | 99 | | % | | 80-120 | 26-SEP-11 |
| Lead (Pb)-Total | | | 99 | | % | | 80-120 | 26-SEP-11 |
| Lithium (Li)-Total | | | 112 | | % | | 80-120 | 26-SEP-11 |
| Magnesium (Mg)-Total | | | 106 | | % | | 80-120 | 26-SEP-11 |
| Manganese (Mn)-Total | | | 98 | | % | | 80-120 | 26-SEP-11 |
| Molybdenum (Mo)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |
| Nickel (Ni)-Total | | | 102 | | % | | 80-120 | 26-SEP-11 |
| Phosphorus (P)-Total | | | 99 | | % | | 80-120 | 26-SEP-11 |
| Potassium (K)-Total | | | 110 | | % | | 80-120 | 26-SEP-11 |
| Rubidium (Rb)-Total | | | 107 | | % | | 80-120 | 26-SEP-11 |
| Selenium (Se)-Total | | | 94 | | % | | 80-120 | 26-SEP-11 |
| Silicon (Si)-Total | | | 113 | | % | | 80-120 | 26-SEP-11 |
| Silver (Ag)-Total | | | 108 | | % | | 80-120 | 26-SEP-11 |
| Sodium (Na)-Total | | | 113 | | % | | 80-120 | 26-SEP-11 |
| Strontium (Sr)-Total | | | 104 | | % | | 80-120 | 26-SEP-11 |
| Tellurium (Te)-Total | | | 99 | | % | | 80-120 | 26-SEP-11 |
| Thallium (Tl)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |
| Thorium (Th)-Total | | | 95 | | % | | 70-130 | 26-SEP-11 |
| Tin (Sn)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |
| Titanium (Ti)-Total | | | 109 | | % | | 80-120 | 26-SEP-11 |
| Tungsten (W)-Total | | | 97 | | % | | 80-120 | 26-SEP-11 |
| Uranium (U)-Total | | | 94 | | % | | 80-120 | 26-SEP-11 |
| Vanadium (V)-Total | | | 105 | | % | | 80-120 | 26-SEP-11 |
| Zinc (Zn)-Total | | | 99 | | % | | 80-120 | 26-SEP-11 |
| Zirconium (Zr)-Total | | | 103 | | % | | 80-120 | 26-SEP-11 |
| WG1356012-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | <0.0050 | | mg/L | | 0.02 | 26-SEP-11 |
| Antimony (Sb)-Total | | | <0.00020 | | mg/L | | 0.001 | 26-SEP-11 |
| Arsenic (As)-Total | | | <0.00020 | | mg/L | | 0.001 | 26-SEP-11 |
| Barium (Ba)-Total | | | <0.00020 | | mg/L | | 0.0005 | 26-SEP-11 |
| Beryllium (Be)-Total | | | <0.00020 | | mg/L | | 0.001 | 26-SEP-11 |



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2258458 | | | | | | | |
| WG1356012-1 | MB | | | | | | | |
| Bismuth (Bi)-Total | | | <0.00020 | | mg/L | | 0.0005 | 26-SEP-11 |
| Boron (B)-Total | | | <0.010 | | mg/L | | 0.03 | 26-SEP-11 |
| Cadmium (Cd)-Total | | | <0.000010 | | mg/L | | 0.0002 | 26-SEP-11 |
| Calcium (Ca)-Total | | | <0.10 | | mg/L | | 0.2 | 26-SEP-11 |
| Cesium (Cs)-Total | | | <0.00010 | | mg/L | | 0.0005 | 26-SEP-11 |
| Chromium (Cr)-Total | | | <0.0010 | | mg/L | | 0.002 | 26-SEP-11 |
| Cobalt (Co)-Total | | | <0.00020 | | mg/L | | 0.0005 | 26-SEP-11 |
| Copper (Cu)-Total | | | <0.00020 | | mg/L | | 0.002 | 26-SEP-11 |
| Iron (Fe)-Total | | | <0.10 | | mg/L | | 0.1 | 26-SEP-11 |
| Lead (Pb)-Total | | | <0.000090 | | mg/L | | 0.001 | 26-SEP-11 |
| Lithium (Li)-Total | | | <0.0020 | | mg/L | | 0.002 | 26-SEP-11 |
| Magnesium (Mg)-Total | | | <0.010 | | mg/L | | 0.05 | 26-SEP-11 |
| Manganese (Mn)-Total | | | <0.00030 | | mg/L | | 0.001 | 26-SEP-11 |
| Molybdenum (Mo)-Total | | | <0.00020 | | mg/L | | 0.0005 | 26-SEP-11 |
| Nickel (Ni)-Total | | | <0.0020 | | mg/L | | 0.002 | 26-SEP-11 |
| Phosphorus (P)-Total | | | <0.20 | | mg/L | | 0.5 | 26-SEP-11 |
| Potassium (K)-Total | | | <0.020 | | mg/L | | 0.1 | 26-SEP-11 |
| Rubidium (Rb)-Total | | | <0.00020 | | mg/L | | 0.0005 | 26-SEP-11 |
| Selenium (Se)-Total | | | <0.0010 | | mg/L | | 0.005 | 26-SEP-11 |
| Silicon (Si)-Total | | | <0.050 | | mg/L | | 0.3 | 26-SEP-11 |
| Silver (Ag)-Total | | | <0.00010 | | mg/L | | 0.001 | 26-SEP-11 |
| Sodium (Na)-Total | | | <0.030 | | mg/L | | 0.05 | 26-SEP-11 |
| Strontium (Sr)-Total | | | <0.00010 | | mg/L | | 0.0005 | 26-SEP-11 |
| Tellurium (Te)-Total | | | <0.00020 | | mg/L | | 0.001 | 26-SEP-11 |
| Thallium (Tl)-Total | | | <0.00010 | | mg/L | | 0.005 | 26-SEP-11 |
| Thorium (Th)-Total | | | <0.00010 | | mg/L | | 0.0001 | 26-SEP-11 |
| Tin (Sn)-Total | | | <0.00020 | | mg/L | | 0.0006 | 26-SEP-11 |
| Titanium (Ti)-Total | | | <0.00020 | | mg/L | | 0.001 | 26-SEP-11 |
| Tungsten (W)-Total | | | <0.0010 | | mg/L | | 0.002 | 26-SEP-11 |
| Uranium (U)-Total | | | <0.00010 | | mg/L | | 0.0005 | 26-SEP-11 |
| Vanadium (V)-Total | | | <0.00020 | | mg/L | | 0.002 | 26-SEP-11 |
| Zinc (Zn)-Total | | | <0.0050 | | mg/L | | 0.02 | 26-SEP-11 |
| Zirconium (Zr)-Total | | | <0.00040 | | mg/L | | 0.001 | 26-SEP-11 |



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| N-TOTKJ-WP | | Water | | | | | | |
| Batch | R2254536 | | | | | | | |
| WG1352330-1 | CVS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 99 | | % | | 90-110 | 20-SEP-11 |
| WG1351730-4 | DUP | L1059417-1 | | | | | | |
| Total Kjeldahl Nitrogen | | 0.84 | 0.82 | | mg/L | 2.5 | 20 | 20-SEP-11 |
| WG1351730-6 | DUP | L1059720-6 | | | | | | |
| Total Kjeldahl Nitrogen | | 1.81 | 1.84 | | mg/L | 1.9 | 20 | 20-SEP-11 |
| WG1351730-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 101 | | % | | 75-125 | 20-SEP-11 |
| WG1351730-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.20 | | mg/L | | 0.2 | 20-SEP-11 |
| WG1351730-3 | MS | L1059417-1 | | | | | | |
| Total Kjeldahl Nitrogen | | | 107 | | % | | 70-130 | 20-SEP-11 |
| WG1351730-5 | MS | L1059720-6 | | | | | | |
| Total Kjeldahl Nitrogen | | | N/A | MS-B | % | | - | 20-SEP-11 |
| NH3-COL-WP | | Water | | | | | | |
| Batch | R2260877 | | | | | | | |
| WG1359404-3 | DUP | L1060061-1 | | | | | | |
| Ammonia as N | | 0.062 | 0.062 | | mg/L | 0.65 | 20 | 29-SEP-11 |
| WG1359404-5 | DUP | L1062339-1 | | | | | | |
| Ammonia as N | | 20.9 | 20.9 | DLA | mg/L | 0.12 | 20 | 29-SEP-11 |
| WG1359404-7 | DUP | L1062578-4 | | | | | | |
| Ammonia as N | | 110 | 110 | DLA | mg/L | 0.13 | 20 | 29-SEP-11 |
| WG1359404-2 | LCS | | | | | | | |
| Ammonia as N | | | 105 | | % | | 85-115 | 29-SEP-11 |
| WG1359404-1 | MB | | | | | | | |
| Ammonia as N | | | <0.050 | | mg/L | | 0.05 | 29-SEP-11 |
| WG1359404-4 | MS | L1060058-2 | | | | | | |
| Ammonia as N | | | 104 | | % | | 75-125 | 29-SEP-11 |
| WG1359404-6 | MS | L1060062-5 | | | | | | |
| Ammonia as N | | | 95 | | % | | 75-125 | 29-SEP-11 |
| WG1359404-8 | MS | L1062345-3 | | | | | | |
| Ammonia as N | | | 106 | | % | | 75-125 | 29-SEP-11 |
| NO2-IC-WP | | Water | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Nitrite-N | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Nitrite-N | | | 96 | | % | | 85-115 | 19-SEP-11 |



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------|-----------------|--------------------|--------|-----------|----------|-------|--------|-----------|
| NO2-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-1 | MB | | | | | | | |
| Nitrite-N | | | <0.050 | | mg/L | | 0.05 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Nitrite-N | | | 104 | | % | | 75-125 | 19-SEP-11 |
| NO3-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Nitrate-N | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Nitrate-N | | | 100 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Nitrate-N | | | <0.050 | | mg/L | | 0.05 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Nitrate-N | | | 108 | | % | | 75-125 | 19-SEP-11 |
| P-T-COL-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2254917 | | | | | | | |
| WG1352018-3 | DUP | L1060058-1 | | | | | | |
| Phosphorus (P)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 20 | 20-SEP-11 |
| WG1352018-5 | DUP | L1060062-3 | | | | | | |
| Phosphorus (P)-Total | | 0.036 | 0.018 | J | mg/L | 0.011 | 0.02 | 20-SEP-11 |
| WG1352018-2 | LCS | | | | | | | |
| Phosphorus (P)-Total | | | 94 | | % | | 80-120 | 20-SEP-11 |
| WG1352018-1 | MB | | | | | | | |
| Phosphorus (P)-Total | | | <0.010 | | mg/L | | 0.01 | 20-SEP-11 |
| WG1352018-6 | MS | L1060063-2 | | | | | | |
| Phosphorus (P)-Total | | | 91 | | % | | 70-130 | 20-SEP-11 |
| WG1352018-7 | MS | L1060065-1 | | | | | | |
| Phosphorus (P)-Total | | | 85 | | % | | 70-130 | 20-SEP-11 |
| WG1352018-8 | MS | L1060115-1 | | | | | | |
| Phosphorus (P)-Total | | | 91 | | % | | 70-130 | 20-SEP-11 |
| PH-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-4 | DUP | L1059370-11 | | | | | | |
| pH | | 6.40 | 6.29 | J | pH units | 0.11 | 0.2 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| pH | | 8.56 | 8.61 | J | pH units | 0.05 | 0.2 | 17-SEP-11 |
| WG1351525-2 | LCS | | | | | | | |



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|------------|---------|-----------|----------|------|---------|-----------|
| PH-WP Water | | | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-2 | LCS | | | | | | | |
| pH | | | 7.41 | | pH units | | 7.3-7.5 | 17-SEP-11 |
| SIO2-L-COL-WP Water | | | | | | | | |
| Batch | R2258513 | | | | | | | |
| WG1356848-6 | DUP | L1057743-1 | | | | | | |
| Silica, Reactive (as SiO2) | | 0.321 | 0.323 | | mg/L | 0.70 | 20 | 24-SEP-11 |
| WG1356848-7 | DUP | L1059181-1 | | | | | | |
| Silica, Reactive (as SiO2) | | 0.0841 | 0.0838 | | mg/L | 0.32 | 20 | 24-SEP-11 |
| WG1356848-8 | DUP | L1060061-2 | | | | | | |
| Silica, Reactive (as SiO2) | | 4.04 | 4.49 | | mg/L | 11 | 20 | 24-SEP-11 |
| WG1356848-9 | DUP | L1060065-3 | | | | | | |
| Silica, Reactive (as SiO2) | | 2.66 | 2.57 | | mg/L | 3.6 | 20 | 24-SEP-11 |
| WG1356848-2 | LCS | | | | | | | |
| Silica, Reactive (as SiO2) | | | 100 | | % | | 85-115 | 24-SEP-11 |
| WG1356848-1 | MB | | | | | | | |
| Silica, Reactive (as SiO2) | | | <0.0050 | | mg/L | | 0.005 | 24-SEP-11 |
| WG1356848-3 | MS | L1060058-1 | | | | | | |
| Silica, Reactive (as SiO2) | | | 103 | | % | | 75-125 | 24-SEP-11 |
| WG1356848-4 | MS | L1060060-3 | | | | | | |
| Silica, Reactive (as SiO2) | | | 97 | | % | | 75-125 | 24-SEP-11 |
| WG1356848-5 | MS | L1060063-7 | | | | | | |
| Silica, Reactive (as SiO2) | | | 113 | | % | | 75-125 | 24-SEP-11 |
| SO4-IC-WP Water | | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Sulfate | | | 102 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Sulfate | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |
| SOLIDS-TDS-WP Water | | | | | | | | |
| Batch | R2258740 | | | | | | | |
| WG1356052-2 | CVS | | | | | | | |
| Total Dissolved Solids | | | 100 | | % | | 85-115 | 26-SEP-11 |
| WG1356052-3 | DUP | L1059318-1 | | | | | | |
| Total Dissolved Solids | | 184 | 174 | | mg/L | 5.6 | 20 | 26-SEP-11 |
| WG1356052-4 | DUP | L1060044-1 | | | | | | |
| Total Dissolved Solids | | 344 | 330 | | mg/L | 4.2 | 20 | 26-SEP-11 |
| WG1356052-7 | DUP | L1063094-1 | | | | | | |



Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|------------|-------------------|--------|-----------|-------|------|--------|-----------|
| SOLIDS-TDS-WP | | Water | | | | | | |
| Batch | R2258740 | | | | | | | |
| WG1356052-7 | DUP | L1063094-1 | | | | | | |
| Total Dissolved Solids | | 1390 | 1380 | | mg/L | 0.72 | 20 | 26-SEP-11 |
| WG1356052-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <5.0 | | mg/L | | 5 | 26-SEP-11 |
| SOLIDS-TOTSUS-WP | | Water | | | | | | |
| Batch | R2258740 | | | | | | | |
| WG1356052-2 | CVS | | | | | | | |
| Total Suspended Solids | | | 94 | | % | | 85-115 | 26-SEP-11 |
| WG1356052-3 | DUP | L1059318-1 | | | | | | |
| Total Suspended Solids | | <5.0 | <5.0 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| WG1356052-4 | DUP | L1060044-1 | | | | | | |
| Total Suspended Solids | | 7.0 | 8.0 | | mg/L | 13 | 400 | 26-SEP-11 |
| WG1356052-6 | DUP | L1062836-2 | | | | | | |
| Total Suspended Solids | | 60.0 | 61.4 | | mg/L | 2.4 | 20 | 26-SEP-11 |
| WG1356052-7 | DUP | L1063094-1 | | | | | | |
| Total Suspended Solids | | 500 | 510 | | mg/L | 2.0 | 20 | 26-SEP-11 |
| WG1356052-1 | MB | | | | | | | |
| Total Suspended Solids | | | <5.0 | | mg/L | | 5 | 26-SEP-11 |
| TURBIDITY-WP | | Water | | | | | | |
| Batch | R2254943 | | | | | | | |
| WG1352212-3 | DUP | L1059370-5 | | | | | | |
| Turbidity | | 0.63 | 0.63 | | NTU | 0.32 | 15 | 17-SEP-11 |
| WG1352212-4 | DUP | L1060062-7 | | | | | | |
| Turbidity | | 2.21 | 2.20 | | NTU | 0.45 | 15 | 17-SEP-11 |
| WG1352212-2 | LCS | | | | | | | |
| Turbidity | | | 98 | | % | | 85-115 | 17-SEP-11 |
| WG1352212-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 17-SEP-11 |

Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

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Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|--|
| DLA | Detection Limit Adjusted For required dilution |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

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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 | 14-SEP-11 12:00 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| | 2 | 14-SEP-11 09:50 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| | 3 | 14-SEP-11 14:15 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| Total Suspended Solids | | | | | | | |
| | 1 | 14-SEP-11 12:00 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| | 2 | 14-SEP-11 09:50 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| | 3 | 14-SEP-11 14:15 | 26-SEP-11 10:07 | 7 | 12 | days | EHT |
| Turbidity | | | | | | | |
| | 1 | 14-SEP-11 12:00 | 17-SEP-11 09:12 | 48 | 69 | hours | EHTR |
| | 2 | 14-SEP-11 09:50 | 17-SEP-11 09:12 | 48 | 71 | hours | EHTR |
| | 3 | 14-SEP-11 14:15 | 17-SEP-11 09:12 | 48 | 67 | hours | EHTR |
| pH | | | | | | | |
| | 1 | 14-SEP-11 12:00 | 17-SEP-11 10:39 | 0.25 | 71 | hours | EHTR-FM |
| | 2 | 14-SEP-11 09:50 | 17-SEP-11 10:39 | 0.25 | 73 | hours | EHTR-FM |
| | 3 | 14-SEP-11 14:15 | 17-SEP-11 10:39 | 0.25 | 68 | hours | EHTR-FM |
| Anions and Nutrients | | | | | | | |
| Bromide | | | | | | | |
| | 1 | 14-SEP-11 12:00 | 19-SEP-11 14:41 | 48 | 123 | hours | EHTR |
| | 2 | 14-SEP-11 09:50 | 19-SEP-11 14:41 | 48 | 125 | hours | EHTR |
| | 3 | 14-SEP-11 14:15 | 19-SEP-11 14:41 | 48 | 120 | hours | EHTR |
| Colour, True | | | | | | | |
| | 1 | 14-SEP-11 12:00 | 17-SEP-11 18:58 | 48 | 79 | hours | EHTR |
| | 2 | 14-SEP-11 09:50 | 17-SEP-11 18:58 | 48 | 81 | hours | EHTR |
| | 3 | 14-SEP-11 14:15 | 17-SEP-11 18:58 | 48 | 77 | hours | EHTR |
| Nitrate as N | | | | | | | |
| | 1 | 14-SEP-11 12:00 | 19-SEP-11 14:41 | 48 | 123 | hours | EHTR |
| | 2 | 14-SEP-11 09:50 | 19-SEP-11 14:41 | 48 | 125 | hours | EHTR |
| | 3 | 14-SEP-11 14:15 | 19-SEP-11 14:41 | 48 | 120 | hours | EHTR |
| Nitrite as N | | | | | | | |
| | 1 | 14-SEP-11 12:00 | 19-SEP-11 14:41 | 48 | 123 | hours | EHTR |
| | 2 | 14-SEP-11 09:50 | 19-SEP-11 14:41 | 48 | 125 | hours | EHTR |
| | 3 | 14-SEP-11 14:15 | 19-SEP-11 14:41 | 48 | 120 | hours | EHTR |
| Phosphorus, Total | | | | | | | |
| | 1 | 14-SEP-11 12:00 | 19-SEP-11 17:44 | 48 | 126 | hours | EHTR |
| | 2 | 14-SEP-11 09:50 | 19-SEP-11 17:44 | 48 | 128 | hours | EHTR |
| | 3 | 14-SEP-11 14:15 | 19-SEP-11 17:44 | 48 | 124 | hours | EHTR |
| Aggregate Organics | | | | | | | |
| Carbonaceous BOD | | | | | | | |
| | 1 | 14-SEP-11 12:00 | 17-SEP-11 10:32 | 48 | 71 | hours | EHTR |
| | 2 | 14-SEP-11 09:50 | 17-SEP-11 10:32 | 48 | 73 | hours | EHTR |
| | 3 | 14-SEP-11 14:15 | 17-SEP-11 10:32 | 48 | 68 | hours | EHTR |
| Organic Parameters | | | | | | | |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| | 1 | 14-SEP-11 12:00 | 17-SEP-11 10:30 | 48 | 71 | hours | EHTR |
| | 2 | 14-SEP-11 09:50 | 17-SEP-11 10:30 | 48 | 73 | hours | EHTR |
| | 3 | 14-SEP-11 14:15 | 17-SEP-11 10:30 | 48 | 68 | hours | EHTR |

Legend & Qualifier Definitions:

Quality Control Report

Workorder: L1060061

Report Date: 06-OCT-11

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

Page 19 of 19

Contact: Clifton Samoiloff

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

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1060061 were received on 17-SEP-11 10:30.

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.

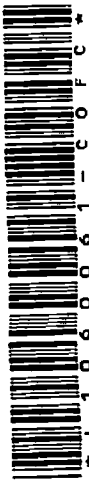
Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



COC #

4

Page 1 of 1



Report To
 Company: AECOM -W172
 Contact: Cliff Samoloff
 Address: 99 Commerce Dr
 Phone: _____ Fax: _____
 Invoice To Same as Report? Yes No
 Hardcopy of Invoice with Report? Yes No
 Company: _____ Contact: _____
 Address: _____ Phone: _____ Fax: _____
 Quote #: Q24534
 ALS Contact: Christine Herrod
 Lab/Work Order# (lab use only): _____
 Sample Identification (This description will appear on the report)
 Sample #: 1 NTL-01
 2 GSL-01
 3 ULI-01
 Date (dd-mm-yy): 14/8/11
 Time (hh:mm): 1200
 950
 1415
 Sampler: _____
 Sample Type: water
 ↓
 Rep: Standard Other PDF Excel Digital Fax
 Email 1: cliff.samoloff@aecom.com
 Email 2: shawna.kjartanson@aecom.com
 Email 3: mark.hedfield@aecom.com
 Client / Project Information
 Job #: 60213483-300
 PO / AFE: _____
 LSD: _____
 Service Requested (Rush for routine analysis subject to availability)
 Regular (Standard Turnaround Times - Business Days)
 Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
 Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
 Same Day or Weekend Emergency - Contact ALS to Confirm TAT
Analysis Request
 Please indicate below Filtered, Preserved or both (F, P, F/P)

| | F | P | F/P | Chlorophylla / Pheophytin | Acidity, Colour, Turbidity | Anions, Br, silica, ph, ec, Alk | NH3, TKN, PT | CBOD | Solids (TSS, TDS) | Metals & Hg - Total | Metals & Hg - Dissolved | TOC, DOC | Number of Containers |
|---|---|---|-----|---------------------------|----------------------------|---------------------------------|--------------|------|-------------------|---------------------|-------------------------|----------|----------------------|
| 1 | X | X | X | X | X | X | X | X | X | X | X | X | 6 |
| 2 | X | X | X | X | X | X | X | X | X | X | X | X | 6 |
| 3 | X | X | X | X | X | X | X | X | X | X | X | X | 6 |

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

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

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.

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

Released by: _____ Date (dd-mm-yy): _____ Time (hh-mm): _____ Received by: blr Date: Sat 17 10:30 Temperature: 8 °C
 SHIPMENT DESCRIPTION (lab use only) SHIPMENT VERIFICATION (lab use only)
 Observations: Yes / No ? If Yes add SIF



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

Date Received: 17-SEP-11
Report Date: 06-OCT-11 15:33 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1060062
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-300
C of C Numbers:
Legal Site Desc:

Gail Hill
Account Manager

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

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060062-1 ARL-01 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 09:45 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.4 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 1.3 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 82.6 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 22.9 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Hardness (as CaCO3) | 36.6 | | 0.20 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 37.6 | | 0.30 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | <0.010 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 2.33 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 46.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Total Kjeldahl Nitrogen | 0.95 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 24.9 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Turbidity | 0.83 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0203 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Arsenic (As)-Total | 0.00139 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Barium (Ba)-Total | 0.00807 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 9.38 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Copper (Cu)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Iron (Fe)-Total | 0.11 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lithium (Li)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | 3.43 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Manganese (Mn)-Total | 0.0139 | | 0.00030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060062-1 ARL-01 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 09:45 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Potassium (K)-Total | 0.299 | | 0.020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Rubidium (Rb)-Total | 0.00051 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silicon (Si)-Total | 1.40 | | 0.050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Sodium (Na)-Total | 1.08 | | 0.030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Strontium (Sr)-Total | 0.0173 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Titanium (Ti)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0167 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00145 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.00677 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 9.31 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00023 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 3.26 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00420 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 0.293 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00053 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 1.07 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 1.04 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0179 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060062-1 ARL-01 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 09:45 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00021 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 1.85 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| Phaeophytin a | 1.75 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 34.4 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 41.9 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 68.0 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 7.60 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060062-2 ANB-01 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 14:15 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 14.2 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | 0.21 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 134 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.3 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 1.4 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 23.2 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 12.8 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Hardness (as CaCO3) | 206 | | 0.30 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 209 | | 0.20 | mg/L | | 28-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.018 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 1.20 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 270 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Total Kjeldahl Nitrogen | 0.67 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 14.0 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060062-2 ANB-01 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 14:15 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Suspended Solids | 5.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Turbidity | 1.49 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0393 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Antimony (Sb)-Total | 0.00578 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Arsenic (As)-Total | 0.00225 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Barium (Ba)-Total | 0.0247 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Boron (B)-Total | 0.020 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | 0.000015 | | 0.000010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 64.9 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Copper (Cu)-Total | 0.00111 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Iron (Fe)-Total | 0.16 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lithium (Li)-Total | 0.0048 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | 10.7 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Manganese (Mn)-Total | 0.0191 | | 0.00030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | 0.00052 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Potassium (K)-Total | 5.30 | | 0.020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Rubidium (Rb)-Total | 0.00287 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silicon (Si)-Total | 0.910 | | 0.050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Sodium (Na)-Total | 10.0 | | 0.030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Strontium (Sr)-Total | 0.153 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Titanium (Ti)-Total | 0.00185 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Vanadium (V)-Total | 0.00034 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zinc (Zn)-Total | 0.0131 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0038 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | 0.00516 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00190 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0191 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | 0.019 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 69.8 | | 0.050 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060062-2 ANB-01 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 14:15 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00125 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0048 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 8.47 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00281 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | 0.00058 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 4.21 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00275 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.580 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 8.35 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.141 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | 0.00049 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00039 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | 0.0091 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 2.56 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| Phaeophytin a | 1.90 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 67.1 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 81.8 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 432 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 7.93 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060062-3 ANB-02 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 15:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 8.27 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | 0.12 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060062-3 ANB-02 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 15:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 52.8 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | <1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 2.1 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 36.2 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 13.2 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Hardness (as CaCO3) | 141 | | 0.30 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 128 | | 0.20 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.036 | | 0.010 | mg/L | | 22-SEP-11 | R2256465 |
| Silica, Reactive (as SiO2) | 0.472 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 160 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Total Kjeldahl Nitrogen | 0.83 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 14.4 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Total Suspended Solids | 5.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Turbidity | 1.52 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0140 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Antimony (Sb)-Total | 0.00191 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Arsenic (As)-Total | 0.00214 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Barium (Ba)-Total | 0.0162 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Boron (B)-Total | 0.014 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 39.5 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Copper (Cu)-Total | 0.00042 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Iron (Fe)-Total | <0.10 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lithium (Li)-Total | 0.0037 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | 10.2 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Manganese (Mn)-Total | 0.0257 | | 0.00030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | 0.00023 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Potassium (K)-Total | 2.55 | | 0.020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Rubidium (Rb)-Total | 0.00174 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silicon (Si)-Total | 0.270 | | 0.050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Sodium (Na)-Total | 6.71 | | 0.030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060062-3 ANB-02 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 15:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Strontium (Sr)-Total | 0.0911 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Titanium (Ti)-Total | 0.00058 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Vanadium (V)-Total | 0.00048 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0060 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | 0.00198 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00207 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0136 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | 0.013 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 35.9 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00067 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0040 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 9.24 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00373 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | 0.00025 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 2.36 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00187 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.213 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 6.16 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0904 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | 0.00023 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00054 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060062-3 ANB-02 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 15:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 6.25 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| Phaeophytin a | 3.13 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 79.6 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 30.6 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | 31.5 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 247 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 9.67 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060062-4 ANB-05 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 16:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 5.39 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 14.5 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | <1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 1.7 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 24.7 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 12.2 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Hardness (as CaCO3) | 82.8 | | 0.20 | mg/L | | 28-SEP-11 | |
| Hardness (as CaCO3) | 96.9 | | 0.30 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.024 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 2.62 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 104 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Total Kjeldahl Nitrogen | 0.66 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 13.5 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Total Suspended Solids | 8.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Turbidity | 3.10 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0580 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Antimony (Sb)-Total | 0.00052 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Arsenic (As)-Total | 0.00245 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Barium (Ba)-Total | 0.0140 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060062-4 ANB-05 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 16:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Boron (B)-Total | 0.011 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 23.8 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Copper (Cu)-Total | 0.00036 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Iron (Fe)-Total | <0.10 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lithium (Li)-Total | 0.0033 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | 9.13 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Manganese (Mn)-Total | 0.0488 | | 0.00030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Potassium (K)-Total | 1.61 | | 0.020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Rubidium (Rb)-Total | 0.00146 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silicon (Si)-Total | 1.71 | | 0.050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Sodium (Na)-Total | 4.61 | | 0.030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Strontium (Sr)-Total | 0.0548 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Titanium (Ti)-Total | 0.00223 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Vanadium (V)-Total | 0.00049 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0036 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | 0.00053 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00103 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.00990 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 20.3 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00036 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0032 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|----------|-----------|-----------|----------|
| L1060062-4 ANB-05 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 16:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Magnesium (Mg)-Dissolved | 7.78 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00053 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | 0.00015 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 1.32 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00131 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 1.24 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 4.00 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0541 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00070 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 9.80 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| Phaeophytin a | 2.37 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256760 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 79.6 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 75.4 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | 9.49 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 180 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 8.78 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060062-5 THL-01 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 09:25 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060062-5 THL-01 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 09:25 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 2.2 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 44.8 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 21.6 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Hardness (as CaCO3) | 43.0 | | 0.30 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 38.2 | | 0.20 | mg/L | | 28-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.010 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 1.47 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 56.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Total Kjeldahl Nitrogen | 0.95 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 23.7 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Turbidity | 2.07 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0121 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Arsenic (As)-Total | 0.00147 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Barium (Ba)-Total | 0.00993 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 11.5 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Copper (Cu)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Iron (Fe)-Total | 0.14 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lithium (Li)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | 3.50 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Manganese (Mn)-Total | 0.0557 | | 0.00030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Potassium (K)-Total | 0.578 | | 0.020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Rubidium (Rb)-Total | 0.00087 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silicon (Si)-Total | 0.970 | | 0.050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Sodium (Na)-Total | 1.19 | | 0.030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Strontium (Sr)-Total | 0.0225 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Titanium (Ti)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060062-5 THL-01 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 09:25 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0062 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00132 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.00698 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 10.3 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 3.03 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00079 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 0.524 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00083 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.670 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 1.08 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0204 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 3.58 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 1.44 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 38.8 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 47.4 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060062-5 THL-01 Sampled By: CLIENT on 15-SEP-11 @ 09:25 Matrix: WATER | | | | | | | |
| Alkalinity Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity Conductivity | 76.0 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH pH | 7.82 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060062-6 THL-02 Sampled By: CLIENT on 15-SEP-11 @ 10:30 Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride Chloride | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate Sulfate | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.1 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 1.6 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 40.8 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 21.2 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Hardness (as CaCO3) | 40.5 | | 0.20 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 42.6 | | 0.30 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.013 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 1.35 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 54.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Total Kjeldahl Nitrogen | 1.00 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 23.7 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Turbidity | 2.59 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0116 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Arsenic (As)-Total | 0.00148 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Barium (Ba)-Total | 0.0103 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 11.5 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060062-6 THL-02 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 10:30 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Copper (Cu)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Iron (Fe)-Total | 0.18 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lithium (Li)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | 3.38 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Manganese (Mn)-Total | 0.0582 | | 0.00030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Potassium (K)-Total | 0.566 | | 0.020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Rubidium (Rb)-Total | 0.00089 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silicon (Si)-Total | 0.845 | | 0.050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Sodium (Na)-Total | 1.19 | | 0.030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Strontium (Sr)-Total | 0.0213 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Titanium (Ti)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0056 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00137 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.00719 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 10.9 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 3.24 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00029 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 0.572 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00089 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|----------|-----------|-----------|----------|
| L1060062-6 THL-02 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 10:30 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.627 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 1.14 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0214 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00022 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 4.21 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 1.84 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 38.9 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 47.5 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 76.3 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 7.85 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060062-7 THL-03 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 11:30 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 2.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 39.8 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 21.7 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Hardness (as CaCO3) | 35.7 | | 0.30 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 40.4 | | 0.20 | mg/L | | 28-SEP-11 | |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060062-7 THL-03 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 11:30 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.013 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 1.38 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 48.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Total Kjeldahl Nitrogen | 1.00 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 24.1 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Turbidity | 2.21 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0091 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Arsenic (As)-Total | 0.00120 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Barium (Ba)-Total | 0.00929 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 9.55 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Copper (Cu)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Iron (Fe)-Total | 0.11 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lithium (Li)-Total | <0.00020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | 2.87 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Manganese (Mn)-Total | 0.0462 | | 0.00030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Potassium (K)-Total | 0.700 | | 0.020 | mg/L | 23-SEP-11 | 27-SEP-11 | R2259333 |
| Rubidium (Rb)-Total | 0.00077 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silicon (Si)-Total | 0.860 | | 0.050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Sodium (Na)-Total | 1.02 | | 0.030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Strontium (Sr)-Total | 0.0184 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Titanium (Ti)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0066 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060062-7 THL-03 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 11:30 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Arsenic (As)-Dissolved | 0.00135 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.00812 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 10.9 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 3.22 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00327 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 0.587 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00092 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.632 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 1.13 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0220 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 4.52 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 1.88 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 38.3 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 46.7 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 75.2 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 7.84 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060062-8 DUP-02 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 11:30 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.1 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 5.9 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 40.5 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 21.6 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Hardness (as CaCO3) | 40.7 | | 0.20 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 43.3 | | 0.30 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.013 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 1.41 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 54.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Total Kjeldahl Nitrogen | 0.99 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 24.0 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Turbidity | 2.42 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0117 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Arsenic (As)-Total | 0.00149 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Barium (Ba)-Total | 0.0107 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 11.7 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Copper (Cu)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Iron (Fe)-Total | 0.14 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lithium (Li)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | 3.45 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Manganese (Mn)-Total | 0.0570 | | 0.00030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060062-8 DUP-02 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 11:30 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Potassium (K)-Total | 0.597 | | 0.020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Rubidium (Rb)-Total | 0.00089 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silicon (Si)-Total | 1.09 | | 0.050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Sodium (Na)-Total | 1.24 | | 0.030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Strontium (Sr)-Total | 0.0221 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Titanium (Ti)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0059 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00135 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.00810 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 10.09 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 3.24 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00042 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 0.554 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00090 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.636 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 1.16 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0219 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060062-8 DUP-02 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 11:30 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 4.91 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 2.30 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 38.4 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 46.8 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 75.4 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 7.84 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060062-9 ANC-01 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 13:50 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 17.2 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | 0.25 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 179 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.4 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 2.1 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 10.2 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 10.5 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Hardness (as CaCO3) | 241 | | 0.20 | mg/L | | 28-SEP-11 | |
| Hardness (as CaCO3) | 234 | | 0.30 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.016 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 0.957 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 332 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Total Kjeldahl Nitrogen | 0.59 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 11.5 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|----------|-------|-----------|-----------|----------|
| L1060062-9 ANC-01 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 13:50 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Suspended Solids | 11.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Turbidity | 2.93 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.103 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Antimony (Sb)-Total | 0.00754 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Arsenic (As)-Total | 0.00263 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Barium (Ba)-Total | 0.0276 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Boron (B)-Total | 0.024 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | 0.000027 | | 0.000010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 78.2 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cobalt (Co)-Total | 0.00022 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Copper (Cu)-Total | 0.00179 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Iron (Fe)-Total | 0.24 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lead (Pb)-Total | 0.000144 | | 0.000090 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lithium (Li)-Total | 0.0058 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | 9.52 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Manganese (Mn)-Total | 0.0232 | | 0.00030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | 0.00069 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Potassium (K)-Total | 6.15 | | 0.020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Rubidium (Rb)-Total | 0.00375 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silicon (Si)-Total | 0.897 | | 0.050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Sodium (Na)-Total | 10.5 | | 0.030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Strontium (Sr)-Total | 0.181 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Titanium (Ti)-Total | 0.00499 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Vanadium (V)-Total | 0.00049 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zinc (Zn)-Total | 0.0340 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0030 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | 0.00733 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00225 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0239 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | 0.021 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | 0.000014 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 82.1 | | 0.050 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060062-9 ANC-01 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 13:50 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00156 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0053 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 8.68 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00530 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | 0.00046 | | 0.00010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 5.91 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00371 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.439 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 10.2 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.184 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | 0.00066 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00026 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | 0.0272 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 1.46 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 1.21 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 53.5 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 65.3 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 498 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 7.93 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |

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

Reference Information

Qualifiers for Individual Samples Listed:

| Sample Number | Client ID | Qualifier | Description |
|---------------|-----------|-----------|---|
| L1060062-1 | ARL-01 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060062-2 | ANB-01 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060062-3 | ANB-02 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060062-4 | ANB-05 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060062-6 | THL-02 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060062-7 | THL-03 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060062-8 | DUP-02 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060062-9 | ANC-01 | SFPL | Sample was Filtered and Preserved at the laboratory |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|--|---------------------------------------|
| ACY-L-8.3-PCT-WP | Water | Acidity | APHA 2310 B |
| Acidity is measured using auto-titration with sodium hydroxide to an endpoint of pH 8.3 | | | |
| ALK-TOT-WP | Water | Alkalinity | APHA 2320B |
| Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically. | | | |
| BR-IC-WP | Water | Bromide | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| C-DIS-ORG-WP | Water | Dissolved Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| C-TOT-ORG-WP | Water | Total Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| CHL,PHEO-FLUORO-WP | Water | Chlorophyll a, Pheophytin by fluorometry | EPA 445.0 |
| Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification. | | | |
| CL-IC-WP | Water | Chloride | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| COLOUR-TRUE-WP | Water | Colour, True | APHA 2120C |
| True colour in water is analyzed by discrete analyzer using the platinum-cobalt colourimetric method. Colour is pH dependant; unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit. | | | |
| CONSULT-BOD-CBOD-WP | Water | Carbonaceous BOD | APHA 5210 B-5 day Incub.-O2 electrode |

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|----------------------------|---------------------------------------|
| <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 | HARDNESS CALCULATED |
| ETL-HARDNESS-TOT-WP | Water | Hardness Calculated | HARDNESS CALCULATED |
| F-IC-WP | Water | Fluoride | EPA 300.1 IC |
| <p>This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography".</p> | | | |
| HG-D-CVAF-WP | Water | Mercury Dissolved | EPA245.7 V2.0 |
| <p>Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.</p> | | | |
| HG-T-CVAF-WP | Water | Mercury Total | EPA245.7 V2.0 |
| <p>Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry.</p> | | | |
| MET-D-L-MS-WP | Water | Dissolved Metals by ICP-MS | U.S. EPA 200.8-DL |
| <p>Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.</p> | | | |
| MET-T-L-MS-WP | Water | Total Metals by ICP-MS | U.S. EPA 200.8-TL |
| <p>Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry.</p> | | | |
| N-TOTKJ-WP | Water | Total Kjeldahl Nitrogen | Quickchem method 10-107-06-2-E Lachat |
| <p>Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration.</p> | | | |
| NH3-COL-WP | Water | Ammonia by colour | APHA 4500 NH3 F |
| <p>Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.</p> | | | |
| NO2+NO3-CALC-WP | Water | Nitrate+Nitrite | CALCULATION |
| NO2-IC-WP | Water | Nitrite as N | EPA 300.1 IC |
| NO3-IC-WP | Water | Nitrate as N | EPA 300.1 IC |
| P-T-COL-WP | Water | Phosphorus, Total | APHA 4500 P PHOSPHORUS |
| <p>This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.</p> | | | |
| PH-WP | Water | pH | APHA 4500H |
| <p>The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.</p> | | | |
| SIO2-L-COL-WP | Water | Reactive Silica by colour | APHA 4500 SIO2 |

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|------------------------|-----------------------|
| This analysis is carried out using procedures adapted from APHA Method 4500-SiO ₂ "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method. | | | |
| SO4-IC-WP | Water | Sulfate | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| SOLIDS-TDS-WP | Water | Total Dissolved Solids | APHA 2540C |
| The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature. | | | |
| SOLIDS-TOTSUS-WP | Water | Total Suspended Solids | APHA 2540D |
| The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C. | | | |
| TURBIDITY-WP | Water | Turbidity | APHA 2130B (modified) |
| Turbidity in aqueous matrices is determined by the nephelometric method. | | | |

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1060062

Report Date: 06-OCT-11

Page 1 of 21

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|-----------------|--------------------|--------|-----------|-------|------|--------|-----------|
| ACY-L-8.3-PCT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256906 | | | | | | | |
| WG1355010-3 | DUP | L1060044-1 | | | | | | |
| Acidity (as CaCO3) | | 2.8 | 2.7 | | mg/L | 6.0 | 25 | 21-SEP-11 |
| WG1355010-4 | DUP | L1060061-1 | | | | | | |
| Acidity (as CaCO3) | | 1.8 | 1.8 | | mg/L | 0.13 | 25 | 21-SEP-11 |
| WG1355010-5 | DUP | L1060062-5 | | | | | | |
| Acidity (as CaCO3) | | 1.0 | 1.1 | | mg/L | 4.0 | 25 | 21-SEP-11 |
| WG1355010-6 | DUP | L1060063-7 | | | | | | |
| Acidity (as CaCO3) | | 1.5 | 1.5 | | mg/L | 2.4 | 25 | 21-SEP-11 |
| WG1355010-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 106 | | % | | 70-130 | 21-SEP-11 |
| WG1355010-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | <1.0 | | mg/L | | 1 | 21-SEP-11 |
| ALK-TOT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-3 | CVS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 103 | | % | | 85-115 | 17-SEP-11 |
| WG1351525-4 | DUP | L1059370-11 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 5.1 | 5.9 | | mg/L | 14 | 20 | 17-SEP-11 |
| Bicarbonate (HCO3) | | 6.3 | 7.2 | | mg/L | 14 | 25 | 17-SEP-11 |
| Carbonate (CO3) | | <0.60 | <0.60 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| Hydroxide (OH) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 246 | 247 | | mg/L | 0.25 | 20 | 17-SEP-11 |
| Bicarbonate (HCO3) | | 274 | 270 | | mg/L | 1.3 | 25 | 17-SEP-11 |
| Carbonate (CO3) | | 9.36 | 11.5 | | mg/L | 20 | 25 | 17-SEP-11 |
| Hydroxide (OH) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| BR-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Bromide (Br) | | | 96 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Bromide (Br) | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| C-DIS-ORG-WP | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L1060062

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| C-DIS-ORG-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255889 | | | | | | | |
| WG1353838-2 | CVS | | | | | | | |
| Dissolved Organic Carbon | | | 101 | | % | | 80-120 | 21-SEP-11 |
| WG1353829-2 | DUP | L1060062-5 | | | | | | |
| Dissolved Organic Carbon | | 21.6 | 21.5 | | mg/L | 0.47 | 20 | 21-SEP-11 |
| WG1353829-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <1.0 | | mg/L | | 1 | 21-SEP-11 |
| C-TOT-ORG-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255889 | | | | | | | |
| WG1353838-2 | CVS | | | | | | | |
| Total Organic Carbon | | | 101 | | % | | 80-120 | 21-SEP-11 |
| WG1353838-3 | DUP | L1060061-1 | | | | | | |
| Total Organic Carbon | | 29.5 | 29.6 | | mg/L | 0.18 | 20 | 21-SEP-11 |
| WG1353838-1 | MB | | | | | | | |
| Total Organic Carbon | | | <1.0 | | mg/L | | 1 | 21-SEP-11 |
| CHL,PHEO-FLUORO-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256760 | | | | | | | |
| WG1354254-1 | CVS | | | | | | | |
| Chlorophyll a | | | 83 | | % | | 65-135 | 23-SEP-11 |
| WG1354254-2 | CVS | | | | | | | |
| Chlorophyll a | | | 115 | | % | | 65-135 | 23-SEP-11 |
| WG1354197-2 | DUP | L1059720-3 | | | | | | |
| Chlorophyll a | | 26.9 | 26.2 | | ug/L | 2.8 | 35 | 23-SEP-11 |
| Phaeophytin a | | 9.76 | 10.7 | | ug/L | 9.4 | 35 | 23-SEP-11 |
| WG1354197-3 | DUP | L1060060-1 | | | | | | |
| Chlorophyll a | | 10.4 | 11.4 | | ug/L | 8.7 | 35 | 23-SEP-11 |
| Phaeophytin a | | 2.88 | 3.28 | | ug/L | 13 | 35 | 23-SEP-11 |
| WG1354197-1 | MB | | | | | | | |
| Chlorophyll a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| Phaeophytin a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| Batch | R2256774 | | | | | | | |
| WG1354255-1 | CVS | | | | | | | |
| Chlorophyll a | | | 82 | | % | | 65-135 | 23-SEP-11 |
| WG1354255-2 | CVS | | | | | | | |
| Chlorophyll a | | | 112 | | % | | 65-135 | 23-SEP-11 |
| WG1354200-2 | DUP | L1060065-1 | | | | | | |
| Chlorophyll a | | 11.5 | 10.6 | | ug/L | 8.0 | 35 | 23-SEP-11 |
| Phaeophytin a | | 1.89 | 2.29 | | ug/L | 19 | 35 | 23-SEP-11 |



Quality Control Report

Workorder: L1060062

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| CHL,PHEO-FLUORO-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256774 | | | | | | | |
| WG1354200-3 | DUP | L1060067-1 | | | | | | |
| Chlorophyll a | | 2.84 | 2.88 | | ug/L | 1.4 | 35 | 23-SEP-11 |
| Phaeophytin a | | 1.88 | 1.95 | | ug/L | 3.7 | 35 | 23-SEP-11 |
| WG1354200-1 | MB | | | | | | | |
| Chlorophyll a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| Phaeophytin a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| CL-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Chloride | | 1.58 | 1.58 | | mg/L | 0.22 | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Chloride | | | 100 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Chloride | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Chloride | | | 107 | | % | | 75-125 | 19-SEP-11 |
| COLOUR-TRUE-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253828 | | | | | | | |
| WG1351569-3 | DUP | L1059499-2 | | | | | | |
| Colour, True | | 23.3 | 24.9 | | CU | 6.6 | 400 | 17-SEP-11 |
| WG1351569-4 | DUP | L1060060-2 | | | | | | |
| Colour, True | | 27.5 | 32.7 | | CU | 17 | 20 | 17-SEP-11 |
| WG1351569-2 | LCS | | | | | | | |
| Colour, True | | | 100 | | % | | 85-115 | 17-SEP-11 |
| WG1351569-1 | MB | | | | | | | |
| Colour, True | | | <5.0 | | CU | | 5 | 17-SEP-11 |
| CONSULT-BOD-CBOD-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255920 | | | | | | | |
| WG1351515-3 | DUP | L1060060-2 | | | | | | |
| WG1351515-4 | DUP | L1060062-7 | | | | | | |
| BOD Carbonaceous | | 2.0 | 2.1 | | mg/L | 4.9 | 400 | 22-SEP-11 |
| WG1351515-2 | IRM | 61-GG | | | | | | |
| BOD Carbonaceous | | | 93 | | % | | 85-115 | 22-SEP-11 |
| WG1351515-1 | MB | | | | | | | |
| BOD Carbonaceous | | | <1.0 | | mg/L | | 1 | 22-SEP-11 |
| EC-WP | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L1060062

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|-----------|-----------|----------|------|---------|-----------|
| EC-WP | | Water | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-1 | CVS | | | | | | | |
| Conductivity | | | 96 | | % | | 90-110 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| Conductivity | | 799 | 798 | | umhos/cm | 0.15 | 10 | 17-SEP-11 |
| F-IC-WP | | Water | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Fluoride | | | 101 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Fluoride | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| HG-D-CVAF-WP | | Water | | | | | | |
| Batch | R2264510 | | | | | | | |
| WG1363399-5 | DUP | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| WG1363399-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |
| WG1363399-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| WG1363406-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| WG1363399-6 | MS | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |
| HG-T-CVAF-WP | | Water | | | | | | |
| Batch | R2263097 | | | | | | | |
| WG1361800-3 | DUP | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | <0.000050 | <0.000050 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-5 | DUP | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | <0.000050 | 0.000070 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 100 | | % | | 80-120 | 30-SEP-11 |
| WG1361800-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000050 | | mg/L | | 0.00005 | 30-SEP-11 |



Quality Control Report

Workorder: L1060062

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|--------|-----------|-------|------|--------|-----------|
| HG-T-CVAF-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2263097 | | | | | | | |
| WG1361800-4 MS | | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | | 93 | | % | | 70-130 | 30-SEP-11 |
| WG1361800-6 MS | | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | | 85 | | % | | 70-130 | 30-SEP-11 |
| MET-D-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 DUP | | WG1356177-3 | | | | | | |
| Aluminum (Al)-Dissolved | | 2.03 | 1.99 | | mg/L | 1.8 | 20 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | 1.02 | 1.01 | | mg/L | 1.2 | 20 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | 1.00 | 1.01 | | mg/L | 0.34 | 20 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | 0.256 | 0.252 | | mg/L | 1.3 | 20 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | 0.105 | 0.101 | | mg/L | 3.4 | 20 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | 1.02 | 1.03 | | mg/L | 0.20 | 20 | 23-SEP-11 |
| Boron (B)-Dissolved | | 1.03 | 1.00 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | 0.103 | 0.106 | | mg/L | 2.7 | 20 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | 50.2 | 50.5 | | mg/L | 0.69 | 20 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | 0.0493 | 0.0489 | | mg/L | 0.70 | 20 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | 0.249 | 0.251 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | 0.257 | 0.256 | | mg/L | 0.20 | 20 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | 0.250 | 0.252 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | 1.00 | 1.01 | | mg/L | 0.49 | 20 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | 0.514 | 0.503 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | 0.263 | 0.254 | | mg/L | 3.7 | 20 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | 50.5 | 50.9 | | mg/L | 0.73 | 20 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | 0.247 | 0.252 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | 0.255 | 0.261 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | 0.513 | 0.520 | | mg/L | 1.4 | 20 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | 2.61 | 2.67 | | mg/L | 2.4 | 20 | 23-SEP-11 |
| Potassium (K)-Dissolved | | 51.8 | 50.9 | | mg/L | 1.8 | 20 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | 0.101 | 0.103 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | 1.01 | 1.01 | | mg/L | 0.29 | 20 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | 1.01 | 1.00 | | mg/L | 0.38 | 20 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | 0.108 | 0.113 | | mg/L | 4.5 | 20 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | 51.4 | 51.9 | | mg/L | 1.1 | 20 | 23-SEP-11 |



Quality Control Report

Workorder: L1060062

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 | DUP | WG1356177-3 | | | | | | |
| Strontium (Sr)-Dissolved | | 0.254 | 0.262 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | 0.103 | 0.105 | | mg/L | 1.9 | 20 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | 1.04 | 1.03 | | mg/L | 1.3 | 20 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | 0.0988 | 0.101 | | mg/L | 2.2 | 25 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | 0.523 | 0.540 | | mg/L | 3.1 | 20 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | 0.252 | 0.258 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | 0.101 | 0.0999 | | mg/L | 1.0 | 20 | 23-SEP-11 |
| Uranium (U)-Dissolved | | 0.00518 | 0.00498 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | 0.511 | 0.519 | | mg/L | 1.6 | 20 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | 0.510 | 0.516 | | mg/L | 1.2 | 20 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | 0.0994 | 0.103 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| WG1356177-2 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Boron (B)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |



Quality Control Report

Workorder: L1060062

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-2 LCS | | | | | | | | |
| Potassium (K)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | 108 | | % | | 80-120 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Uranium (U)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| WG1356177-1 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Boron (B)-Dissolved | | | <0.010 | | mg/L | | 0.03 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | <0.000010 | | mg/L | | 0.0002 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | | <0.050 | | mg/L | | 0.2 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | <0.0020 | | mg/L | | 0.002 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | <0.10 | | mg/L | | 0.1 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | <0.000090 | | mg/L | | 0.001 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | <0.0020 | | mg/L | | 0.01 | 23-SEP-11 |



Quality Control Report

Workorder: L1060062

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|

MET-D-L-MS-WP **Water**

Batch **R2257942**

WG1356177-1 MB

| | | | | | | | | |
|---------------------------|--|--|----------|--|------|--|--------|-----------|
| Magnesium (Mg)-Dissolved | | | <0.010 | | mg/L | | 0.05 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | <0.0010 | | mg/L | | 0.002 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | <0.10 | | mg/L | | 0.5 | 23-SEP-11 |
| Potassium (K)-Dissolved | | | <0.020 | | mg/L | | 0.1 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | <0.0010 | | mg/L | | 0.005 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | <0.050 | | mg/L | | 0.3 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | | <0.020 | | mg/L | | 0.05 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | | <0.00010 | | mg/L | | 0.005 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | | <0.00020 | | mg/L | | 0.0006 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Uranium (U)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | | <0.00040 | | mg/L | | 0.001 | 23-SEP-11 |

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

Batch **R2257780**

WG1354838-4 DUP

WG1354838-3

| | | | | | | | |
|----------------------|-----------|-----------|--------|------|-----|-----|-----------|
| Aluminum (Al)-Total | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Antimony (Sb)-Total | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Arsenic (As)-Total | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Barium (Ba)-Total | 0.00067 | 0.00068 | | mg/L | 1.6 | 400 | 23-SEP-11 |
| Beryllium (Be)-Total | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Bismuth (Bi)-Total | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Boron (B)-Total | 0.059 | 0.060 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Cadmium (Cd)-Total | <0.000010 | <0.000010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |



Quality Control Report

Workorder: L1060062

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|----------|-----------|-------|------|-------|-----------|
| MET-T-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257780 | | | | | | | |
| WG1354838-4 DUP | | WG1354838-3 | | | | | | |
| Calcium (Ca)-Total | | 0.81 | 0.80 | | mg/L | 0.98 | 20 | 23-SEP-11 |
| Cesium (Cs)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Chromium (Cr)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Cobalt (Co)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Copper (Cu)-Total | | 0.0345 | 0.0344 | | mg/L | 0.19 | 20 | 23-SEP-11 |
| Iron (Fe)-Total | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Lead (Pb)-Total | | 0.000105 | 0.000120 | | mg/L | 13 | 400 | 23-SEP-11 |
| Lithium (Li)-Total | | 0.0032 | 0.0033 | | mg/L | 2.9 | 400 | 23-SEP-11 |
| Magnesium (Mg)-Total | | 0.176 | 0.182 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Manganese (Mn)-Total | | <0.00030 | <0.00030 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Molybdenum (Mo)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Nickel (Ni)-Total | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Phosphorus (P)-Total | | <0.20 | <0.20 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Potassium (K)-Total | | 0.712 | 0.710 | | mg/L | 0.18 | 20 | 23-SEP-11 |
| Rubidium (Rb)-Total | | 0.00068 | 0.00064 | | mg/L | 5.3 | 400 | 23-SEP-11 |
| Selenium (Se)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Silicon (Si)-Total | | 0.198 | 0.192 | | mg/L | 2.7 | 400 | 23-SEP-11 |
| Silver (Ag)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Sodium (Na)-Total | | 14.6 | 15.6 | | mg/L | 6.5 | 20 | 23-SEP-11 |
| Strontium (Sr)-Total | | 0.00182 | 0.00183 | | mg/L | 0.11 | 20 | 23-SEP-11 |
| Tellurium (Te)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Thallium (Tl)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Thorium (Th)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 25 | 23-SEP-11 |
| Tin (Sn)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Titanium (Ti)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Tungsten (W)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Uranium (U)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Vanadium (V)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Zinc (Zn)-Total | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Zirconium (Zr)-Total | | <0.00040 | <0.00040 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| WG1354838-6 DUP | | WG1354838-5 | | | | | | |
| Antimony (Sb)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Arsenic (As)-Total | | 0.00128 | 0.00122 | | mg/L | 4.6 | 20 | 23-SEP-11 |



Quality Control Report

Workorder: L1060062

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|-----------|-----------|-------|------|-------|-----------|
| MET-T-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257780 | | | | | | | |
| WG1354838-6 | DUP | WG1354838-5 | | | | | | |
| Barium (Ba)-Total | | 0.0992 | 0.102 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Beryllium (Be)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Bismuth (Bi)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Boron (B)-Total | | 0.233 | 0.234 | | mg/L | 0.33 | 20 | 23-SEP-11 |
| Cadmium (Cd)-Total | | <0.000010 | <0.000010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Calcium (Ca)-Total | | 63.8 | 65.8 | | mg/L | 3.0 | 20 | 23-SEP-11 |
| Cesium (Cs)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Chromium (Cr)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Cobalt (Co)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Copper (Cu)-Total | | 0.00160 | 0.00140 | | mg/L | 13 | 20 | 23-SEP-11 |
| Iron (Fe)-Total | | 0.27 | 0.22 | | mg/L | 19 | 400 | 23-SEP-11 |
| Lead (Pb)-Total | | 0.000144 | 0.000131 | | mg/L | 9.5 | 400 | 23-SEP-11 |
| Lithium (Li)-Total | | 0.0337 | 0.0336 | | mg/L | 0.35 | 20 | 23-SEP-11 |
| Magnesium (Mg)-Total | | 71.6 | 71.3 | | mg/L | 0.45 | 20 | 23-SEP-11 |
| Molybdenum (Mo)-Total | | 0.00353 | 0.00355 | | mg/L | 0.31 | 20 | 23-SEP-11 |
| Nickel (Ni)-Total | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Phosphorus (P)-Total | | <0.20 | <0.20 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Potassium (K)-Total | | 7.22 | 7.02 | | mg/L | 2.8 | 20 | 23-SEP-11 |
| Rubidium (Rb)-Total | | 0.00442 | 0.00448 | | mg/L | 1.5 | 20 | 23-SEP-11 |
| Selenium (Se)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Silicon (Si)-Total | | 5.96 | 5.91 | | mg/L | 0.80 | 20 | 23-SEP-11 |
| Silver (Ag)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Sodium (Na)-Total | | 11.7 | 11.8 | | mg/L | 0.77 | 20 | 23-SEP-11 |
| Strontium (Sr)-Total | | 0.459 | 0.472 | | mg/L | 2.8 | 20 | 23-SEP-11 |
| Tellurium (Te)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Thallium (Tl)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Thorium (Th)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 25 | 23-SEP-11 |
| Tin (Sn)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Titanium (Ti)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Tungsten (W)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Uranium (U)-Total | | 0.00150 | 0.00154 | | mg/L | 2.7 | 20 | 23-SEP-11 |
| Vanadium (V)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Zinc (Zn)-Total | | <0.0050 | <0.0050 | | mg/L | | | 23-SEP-11 |



Quality Control Report

Workorder: L1060062

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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 | R2257780 | | | | | | | |
| WG1354838-6 | DUP | WG1354838-5 | | | | | | |
| Zinc (Zn)-Total | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Zirconium (Zr)-Total | | <0.00040 | <0.00040 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| WG1354838-2 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 106 | | % | | 80-120 | 23-SEP-11 |
| Antimony (Sb)-Total | | | 93 | | % | | 80-120 | 23-SEP-11 |
| Arsenic (As)-Total | | | 98 | | % | | 80-120 | 23-SEP-11 |
| Barium (Ba)-Total | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Beryllium (Be)-Total | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Bismuth (Bi)-Total | | | 113 | | % | | 80-120 | 23-SEP-11 |
| Boron (B)-Total | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Cadmium (Cd)-Total | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Calcium (Ca)-Total | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Cesium (Cs)-Total | | | 97 | | % | | 80-120 | 23-SEP-11 |
| Chromium (Cr)-Total | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Cobalt (Co)-Total | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Copper (Cu)-Total | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Iron (Fe)-Total | | | 109 | | % | | 80-120 | 23-SEP-11 |
| Lead (Pb)-Total | | | 96 | | % | | 80-120 | 23-SEP-11 |
| Lithium (Li)-Total | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Magnesium (Mg)-Total | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Manganese (Mn)-Total | | | 108 | | % | | 80-120 | 23-SEP-11 |
| Molybdenum (Mo)-Total | | | 106 | | % | | 80-120 | 23-SEP-11 |
| Nickel (Ni)-Total | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Phosphorus (P)-Total | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Potassium (K)-Total | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Rubidium (Rb)-Total | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Selenium (Se)-Total | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Silicon (Si)-Total | | | 111 | | % | | 80-120 | 23-SEP-11 |
| Silver (Ag)-Total | | | 108 | | % | | 80-120 | 23-SEP-11 |
| Sodium (Na)-Total | | | 106 | | % | | 80-120 | 23-SEP-11 |
| Strontium (Sr)-Total | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Tellurium (Te)-Total | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Thallium (Tl)-Total | | | 106 | | % | | 80-120 | 23-SEP-11 |
| Thorium (Th)-Total | | | 84 | | % | | 70-130 | 23-SEP-11 |



Quality Control Report

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2257780 | | | | | | | |
| WG1354838-2 | LCS | | | | | | | |
| Tin (Sn)-Total | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Titanium (Ti)-Total | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Tungsten (W)-Total | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Uranium (U)-Total | | | 111 | | % | | 80-120 | 23-SEP-11 |
| Vanadium (V)-Total | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zinc (Zn)-Total | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Zirconium (Zr)-Total | | | 104 | | % | | 80-120 | 23-SEP-11 |
| WG1354838-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | <0.0050 | | mg/L | | 0.02 | 23-SEP-11 |
| Antimony (Sb)-Total | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Arsenic (As)-Total | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Barium (Ba)-Total | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Beryllium (Be)-Total | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Bismuth (Bi)-Total | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Boron (B)-Total | | | <0.010 | | mg/L | | 0.03 | 23-SEP-11 |
| Cadmium (Cd)-Total | | | <0.000010 | | mg/L | | 0.0002 | 23-SEP-11 |
| Calcium (Ca)-Total | | | <0.10 | | mg/L | | 0.2 | 23-SEP-11 |
| Cesium (Cs)-Total | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Chromium (Cr)-Total | | | <0.0010 | | mg/L | | 0.002 | 23-SEP-11 |
| Cobalt (Co)-Total | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Copper (Cu)-Total | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Iron (Fe)-Total | | | <0.10 | | mg/L | | 0.1 | 23-SEP-11 |
| Lead (Pb)-Total | | | <0.000090 | | mg/L | | 0.001 | 23-SEP-11 |
| Lithium (Li)-Total | | | <0.0020 | | mg/L | | 0.002 | 23-SEP-11 |
| Magnesium (Mg)-Total | | | <0.010 | | mg/L | | 0.05 | 23-SEP-11 |
| Manganese (Mn)-Total | | | <0.00030 | | mg/L | | 0.001 | 23-SEP-11 |
| Molybdenum (Mo)-Total | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Nickel (Ni)-Total | | | <0.0020 | | mg/L | | 0.002 | 23-SEP-11 |
| Phosphorus (P)-Total | | | <0.20 | | mg/L | | 0.5 | 23-SEP-11 |
| Potassium (K)-Total | | | <0.020 | | mg/L | | 0.1 | 23-SEP-11 |
| Rubidium (Rb)-Total | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Selenium (Se)-Total | | | <0.0010 | | mg/L | | 0.005 | 23-SEP-11 |
| Silicon (Si)-Total | | | <0.050 | | mg/L | | 0.3 | 23-SEP-11 |
| Silver (Ag)-Total | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |



Quality Control Report

Workorder: L1060062

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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 | R2257780 | | | | | | | |
| WG1354838-1 MB | | | | | | | | |
| Sodium (Na)-Total | | | <0.030 | | mg/L | | 0.05 | 23-SEP-11 |
| Strontium (Sr)-Total | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Tellurium (Te)-Total | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Thallium (Tl)-Total | | | <0.00010 | | mg/L | | 0.005 | 23-SEP-11 |
| Thorium (Th)-Total | | | <0.00010 | | mg/L | | 0.0001 | 23-SEP-11 |
| Tin (Sn)-Total | | | <0.00020 | | mg/L | | 0.0006 | 23-SEP-11 |
| Titanium (Ti)-Total | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Tungsten (W)-Total | | | <0.0010 | | mg/L | | 0.002 | 23-SEP-11 |
| Uranium (U)-Total | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Vanadium (V)-Total | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Zinc (Zn)-Total | | | <0.0050 | | mg/L | | 0.02 | 23-SEP-11 |
| Zirconium (Zr)-Total | | | <0.00040 | | mg/L | | 0.001 | 23-SEP-11 |
| N-TOTKJ-WP | | Water | | | | | | |
| Batch | R2255224 | | | | | | | |
| WG1353102-1 CVS | | | | | | | | |
| Total Kjeldahl Nitrogen | | | 95 | | % | | 90-110 | 21-SEP-11 |
| WG1352408-4 DUP | L1060071-2 | | | | | | | |
| Total Kjeldahl Nitrogen | | 1.61 | 1.68 | | mg/L | 4.1 | 20 | 21-SEP-11 |
| WG1352408-6 DUP | L1060073-3 | | | | | | | |
| Total Kjeldahl Nitrogen | | 1.31 | 1.26 | | mg/L | 3.9 | 20 | 21-SEP-11 |
| WG1352408-2 LCS | | | | | | | | |
| Total Kjeldahl Nitrogen | | | 105 | | % | | 75-125 | 21-SEP-11 |
| WG1352408-1 MB | | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.20 | | mg/L | | 0.2 | 21-SEP-11 |
| WG1352408-3 MS | L1060071-2 | | | | | | | |
| Total Kjeldahl Nitrogen | | | N/A | MS-B | % | | - | 21-SEP-11 |
| WG1352408-5 MS | L1060073-3 | | | | | | | |
| Total Kjeldahl Nitrogen | | | N/A | MS-B | % | | - | 21-SEP-11 |
| NH3-COL-WP | | Water | | | | | | |
| Batch | R2260877 | | | | | | | |
| WG1359404-3 DUP | L1060061-1 | | | | | | | |
| Ammonia as N | | 0.062 | 0.062 | | mg/L | 0.65 | 20 | 29-SEP-11 |
| WG1359404-5 DUP | L1062339-1 | | | | | | | |
| Ammonia as N | | 20.9 | 20.9 | DLA | mg/L | 0.12 | 20 | 29-SEP-11 |
| WG1359404-7 DUP | L1062578-4 | | | | | | | |



Quality Control Report

Workorder: L1060062

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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 | R2260877 | | | | | | | |
| WG1359404-7 | DUP | L1062578-4 | | | | | | |
| Ammonia as N | | 110 | 110 | DLA | mg/L | 0.13 | 20 | 29-SEP-11 |
| WG1359404-2 | LCS | | | | | | | |
| Ammonia as N | | | 105 | | % | | 85-115 | 29-SEP-11 |
| WG1359404-1 | MB | | | | | | | |
| Ammonia as N | | | <0.050 | | mg/L | | 0.05 | 29-SEP-11 |
| WG1359404-4 | MS | L1060058-2 | | | | | | |
| Ammonia as N | | | 104 | | % | | 75-125 | 29-SEP-11 |
| WG1359404-6 | MS | L1060062-5 | | | | | | |
| Ammonia as N | | | 95 | | % | | 75-125 | 29-SEP-11 |
| WG1359404-8 | MS | L1062345-3 | | | | | | |
| Ammonia as N | | | 106 | | % | | 75-125 | 29-SEP-11 |
| NO2-IC-WP | | Water | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Nitrite-N | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Nitrite-N | | | 96 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Nitrite-N | | | <0.050 | | mg/L | | 0.05 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Nitrite-N | | | 104 | | % | | 75-125 | 19-SEP-11 |
| NO3-IC-WP | | Water | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Nitrate-N | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Nitrate-N | | | 100 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Nitrate-N | | | <0.050 | | mg/L | | 0.05 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Nitrate-N | | | 108 | | % | | 75-125 | 19-SEP-11 |
| P-T-COL-WP | | Water | | | | | | |
| Batch | R2254917 | | | | | | | |
| WG1352018-3 | DUP | L1060058-1 | | | | | | |
| Phosphorus (P)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 20 | 20-SEP-11 |
| WG1352018-5 | DUP | L1060062-3 | | | | | | |



Quality Control Report

Workorder: L1060062

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|---------|-----------|----------|-------|---------|-----------|
| P-T-COL-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2254917 | | | | | | | |
| WG1352018-5 | DUP | L1060062-3 | | | | | | |
| Phosphorus (P)-Total | | 0.036 | 0.018 | J | mg/L | 0.011 | 0.02 | 20-SEP-11 |
| WG1352018-2 | LCS | | | | | | | |
| Phosphorus (P)-Total | | | 94 | | % | | 80-120 | 20-SEP-11 |
| WG1352018-1 | MB | | | | | | | |
| Phosphorus (P)-Total | | | <0.010 | | mg/L | | 0.01 | 20-SEP-11 |
| WG1352018-6 | MS | L1060063-2 | | | | | | |
| Phosphorus (P)-Total | | | 91 | | % | | 70-130 | 20-SEP-11 |
| WG1352018-7 | MS | L1060065-1 | | | | | | |
| Phosphorus (P)-Total | | | 85 | | % | | 70-130 | 20-SEP-11 |
| WG1352018-8 | MS | L1060115-1 | | | | | | |
| Phosphorus (P)-Total | | | 91 | | % | | 70-130 | 20-SEP-11 |
| PH-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-4 | DUP | L1059370-11 | | | | | | |
| pH | | 6.40 | 6.29 | J | pH units | 0.11 | 0.2 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| pH | | 8.56 | 8.61 | J | pH units | 0.05 | 0.2 | 17-SEP-11 |
| WG1351525-2 | LCS | | | | | | | |
| pH | | | 7.41 | | pH units | | 7.3-7.5 | 17-SEP-11 |
| SIO2-L-COL-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2258513 | | | | | | | |
| WG1356848-6 | DUP | L1057743-1 | | | | | | |
| Silica, Reactive (as SiO2) | | 0.321 | 0.323 | | mg/L | 0.70 | 20 | 24-SEP-11 |
| WG1356848-7 | DUP | L1059181-1 | | | | | | |
| Silica, Reactive (as SiO2) | | 0.0841 | 0.0838 | | mg/L | 0.32 | 20 | 24-SEP-11 |
| WG1356848-8 | DUP | L1060061-2 | | | | | | |
| Silica, Reactive (as SiO2) | | 4.04 | 4.49 | | mg/L | 11 | 20 | 24-SEP-11 |
| WG1356848-9 | DUP | L1060065-3 | | | | | | |
| Silica, Reactive (as SiO2) | | 2.66 | 2.57 | | mg/L | 3.6 | 20 | 24-SEP-11 |
| WG1356848-2 | LCS | | | | | | | |
| Silica, Reactive (as SiO2) | | | 100 | | % | | 85-115 | 24-SEP-11 |
| WG1356848-1 | MB | | | | | | | |
| Silica, Reactive (as SiO2) | | | <0.0050 | | mg/L | | 0.005 | 24-SEP-11 |
| WG1356848-3 | MS | L1060058-1 | | | | | | |
| Silica, Reactive (as SiO2) | | | 103 | | % | | 75-125 | 24-SEP-11 |
| WG1356848-4 | MS | L1060060-3 | | | | | | |
| Silica, Reactive (as SiO2) | | | 97 | | % | | 75-125 | 24-SEP-11 |



Quality Control Report

Workorder: L1060062

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------------------|----------|------------|--------|-----------|-------|-----|--------|-----------|
| SIO2-L-COL-WP Water | | | | | | | | |
| Batch | R2258513 | | | | | | | |
| WG1356848-5 | MS | L1060063-7 | | | | | | |
| Silica, Reactive (as SiO2) | | | 113 | | % | | 75-125 | 24-SEP-11 |
| SO4-IC-WP Water | | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Sulfate | | | 102 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Sulfate | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |
| SOLIDS-TDS-WP Water | | | | | | | | |
| Batch | R2259447 | | | | | | | |
| WG1356855-2 | CVS | | | | | | | |
| Total Dissolved Solids | | | 100 | | % | | 85-115 | 27-SEP-11 |
| WG1356855-3 | DUP | L1060736-1 | | | | | | |
| Total Dissolved Solids | | | 3330 | | mg/L | 2.4 | 20 | 27-SEP-11 |
| WG1356855-8 | DUP | L1063648-1 | | | | | | |
| Total Dissolved Solids | | | 670 | | mg/L | 4.6 | 20 | 27-SEP-11 |
| WG1356855-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <5.0 | | mg/L | | 5 | 27-SEP-11 |
| SOLIDS-TOTSUS-WP Water | | | | | | | | |
| Batch | R2259447 | | | | | | | |
| WG1356855-2 | CVS | | | | | | | |
| Total Suspended Solids | | | 102 | | % | | 85-115 | 27-SEP-11 |
| WG1356855-3 | DUP | L1060736-1 | | | | | | |
| Total Suspended Solids | | | 25.0 | | mg/L | 4.1 | 400 | 27-SEP-11 |
| WG1356855-5 | DUP | L1063117-1 | | | | | | |
| Total Suspended Solids | | | 7.0 | | mg/L | 0.0 | 400 | 27-SEP-11 |
| WG1356855-6 | DUP | L1063120-1 | | | | | | |
| Total Suspended Solids | | | 5.0 | | mg/L | 0.0 | 400 | 27-SEP-11 |
| WG1356855-8 | DUP | L1063648-1 | | | | | | |
| Total Suspended Solids | | | 97.1 | | mg/L | 2.9 | 20 | 27-SEP-11 |
| WG1356855-1 | MB | | | | | | | |
| Total Suspended Solids | | | <5.0 | | mg/L | | 5 | 27-SEP-11 |
| TURBIDITY-WP Water | | | | | | | | |



Quality Control Report

Workorder: L1060062

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| TURBIDITY-WP | | Water | | | | | | |
| Batch | R2254943 | | | | | | | |
| WG1352212-3 | DUP | L1059370-5 | | | | | | |
| Turbidity | | 0.63 | 0.63 | | NTU | 0.32 | 15 | 17-SEP-11 |
| WG1352212-4 | DUP | L1060062-7 | | | | | | |
| Turbidity | | 2.21 | 2.20 | | NTU | 0.45 | 15 | 17-SEP-11 |
| WG1352212-2 | LCS | | | | | | | |
| Turbidity | | | 98 | | % | | 85-115 | 17-SEP-11 |
| WG1352212-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 17-SEP-11 |

Quality Control Report

Workorder: L1060062

Report Date: 06-OCT-11

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

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Contact: Clifton Samoiloff

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|--|
| DLA | Detection Limit Adjusted For required dilution |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L1060062

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Total Dissolved Solids | | | | | | | |
| | 1 | 15-SEP-11 09:45 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 2 | 15-SEP-11 14:15 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 3 | 15-SEP-11 15:00 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 4 | 15-SEP-11 16:00 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 5 | 15-SEP-11 09:25 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 6 | 15-SEP-11 10:30 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 7 | 15-SEP-11 11:30 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 8 | 15-SEP-11 11:30 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 9 | 15-SEP-11 13:50 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| Total Suspended Solids | | | | | | | |
| | 1 | 15-SEP-11 09:45 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 2 | 15-SEP-11 14:15 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 3 | 15-SEP-11 15:00 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 4 | 15-SEP-11 16:00 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 5 | 15-SEP-11 09:25 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 6 | 15-SEP-11 10:30 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 7 | 15-SEP-11 11:30 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 8 | 15-SEP-11 11:30 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 9 | 15-SEP-11 13:50 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| pH | | | | | | | |
| | 1 | 15-SEP-11 09:45 | 17-SEP-11 10:39 | 0.25 | 49 | hours | EHTR-FM |
| | 2 | 15-SEP-11 14:15 | 17-SEP-11 10:39 | 0.25 | 44 | hours | EHTR-FM |
| | 3 | 15-SEP-11 15:00 | 17-SEP-11 10:39 | 0.25 | 44 | hours | EHTR-FM |
| | 4 | 15-SEP-11 16:00 | 17-SEP-11 10:39 | 0.25 | 43 | hours | EHTR-FM |
| | 5 | 15-SEP-11 09:25 | 17-SEP-11 10:39 | 0.25 | 49 | hours | EHTR-FM |
| | 6 | 15-SEP-11 10:30 | 17-SEP-11 10:39 | 0.25 | 48 | hours | EHTR-FM |
| | 7 | 15-SEP-11 11:30 | 17-SEP-11 10:39 | 0.25 | 47 | hours | EHTR-FM |
| | 8 | 15-SEP-11 11:30 | 17-SEP-11 10:39 | 0.25 | 47 | hours | EHTR-FM |
| | 9 | 15-SEP-11 13:50 | 17-SEP-11 10:39 | 0.25 | 45 | hours | EHTR-FM |
| Anions and Nutrients | | | | | | | |
| Bromide | | | | | | | |
| | 1 | 15-SEP-11 09:45 | 19-SEP-11 14:41 | 48 | 101 | hours | EHTR |
| | 2 | 15-SEP-11 14:15 | 19-SEP-11 14:41 | 48 | 96 | hours | EHTL |
| | 3 | 15-SEP-11 15:00 | 19-SEP-11 14:41 | 48 | 96 | hours | EHTL |
| | 4 | 15-SEP-11 16:00 | 19-SEP-11 14:41 | 48 | 95 | hours | EHTL |
| | 5 | 15-SEP-11 09:25 | 19-SEP-11 14:41 | 48 | 101 | hours | EHTR |
| | 6 | 15-SEP-11 10:30 | 19-SEP-11 14:41 | 48 | 100 | hours | EHTL |
| | 7 | 15-SEP-11 11:30 | 19-SEP-11 14:41 | 48 | 99 | hours | EHTL |
| | 8 | 15-SEP-11 11:30 | 19-SEP-11 14:41 | 48 | 99 | hours | EHTL |
| | 9 | 15-SEP-11 13:50 | 19-SEP-11 14:41 | 48 | 97 | hours | EHTL |
| Colour, True | | | | | | | |
| | 1 | 15-SEP-11 09:45 | 17-SEP-11 18:58 | 48 | 57 | hours | EHTR |
| | 2 | 15-SEP-11 14:15 | 17-SEP-11 18:58 | 48 | 53 | hours | EHTL |
| | 3 | 15-SEP-11 15:00 | 17-SEP-11 18:58 | 48 | 52 | hours | EHTL |
| | 4 | 15-SEP-11 16:00 | 17-SEP-11 18:58 | 48 | 51 | hours | EHTL |
| | 5 | 15-SEP-11 09:25 | 17-SEP-11 18:59 | 48 | 58 | hours | EHTR |
| | 6 | 15-SEP-11 10:30 | 17-SEP-11 18:59 | 48 | 56 | hours | EHTL |
| | 7 | 15-SEP-11 11:30 | 17-SEP-11 18:59 | 48 | 55 | hours | EHTL |
| | 8 | 15-SEP-11 11:30 | 17-SEP-11 18:59 | 48 | 55 | hours | EHTL |
| | 9 | 15-SEP-11 13:50 | 17-SEP-11 18:41 | 48 | 53 | hours | EHTL |
| Nitrate as N | | | | | | | |

Quality Control Report

Workorder: L1060062

Report Date: 06-OCT-11

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

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|--|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Anions and Nutrients | | | | | | | |
| Nitrate as N | | | | | | | |
| | 1 | 15-SEP-11 09:45 | 19-SEP-11 14:41 | 48 | 101 | hours | EHTR |
| | 2 | 15-SEP-11 14:15 | 19-SEP-11 14:41 | 48 | 96 | hours | EHTL |
| | 3 | 15-SEP-11 15:00 | 19-SEP-11 14:41 | 48 | 96 | hours | EHTL |
| | 4 | 15-SEP-11 16:00 | 19-SEP-11 14:41 | 48 | 95 | hours | EHTL |
| | 5 | 15-SEP-11 09:25 | 19-SEP-11 14:41 | 48 | 101 | hours | EHTR |
| | 6 | 15-SEP-11 10:30 | 19-SEP-11 14:41 | 48 | 100 | hours | EHTL |
| | 7 | 15-SEP-11 11:30 | 19-SEP-11 14:41 | 48 | 99 | hours | EHTL |
| | 8 | 15-SEP-11 11:30 | 19-SEP-11 14:41 | 48 | 99 | hours | EHTL |
| | 9 | 15-SEP-11 13:50 | 19-SEP-11 14:41 | 48 | 97 | hours | EHTL |
| Nitrite as N | | | | | | | |
| | 1 | 15-SEP-11 09:45 | 19-SEP-11 14:41 | 48 | 101 | hours | EHTR |
| | 2 | 15-SEP-11 14:15 | 19-SEP-11 14:41 | 48 | 96 | hours | EHTL |
| | 3 | 15-SEP-11 15:00 | 19-SEP-11 14:41 | 48 | 96 | hours | EHTL |
| | 4 | 15-SEP-11 16:00 | 19-SEP-11 14:41 | 48 | 95 | hours | EHTL |
| | 5 | 15-SEP-11 09:25 | 19-SEP-11 14:41 | 48 | 101 | hours | EHTR |
| | 6 | 15-SEP-11 10:30 | 19-SEP-11 14:41 | 48 | 100 | hours | EHTL |
| | 7 | 15-SEP-11 11:30 | 19-SEP-11 14:41 | 48 | 99 | hours | EHTL |
| | 8 | 15-SEP-11 11:30 | 19-SEP-11 14:41 | 48 | 99 | hours | EHTL |
| | 9 | 15-SEP-11 13:50 | 19-SEP-11 14:41 | 48 | 97 | hours | EHTL |
| Phosphorus, Total | | | | | | | |
| | 1 | 15-SEP-11 09:45 | 19-SEP-11 17:44 | 48 | 104 | hours | EHTR |
| | 2 | 15-SEP-11 14:15 | 19-SEP-11 17:44 | 48 | 100 | hours | EHTL |
| | 3 | 15-SEP-11 15:00 | 19-SEP-11 17:44 | 48 | 99 | hours | EHTL |
| | 4 | 15-SEP-11 16:00 | 19-SEP-11 17:44 | 48 | 98 | hours | EHTL |
| | 5 | 15-SEP-11 09:25 | 19-SEP-11 17:44 | 48 | 104 | hours | EHTR |
| | 6 | 15-SEP-11 10:30 | 19-SEP-11 17:44 | 48 | 103 | hours | EHTL |
| | 7 | 15-SEP-11 11:30 | 19-SEP-11 17:44 | 48 | 102 | hours | EHTL |
| | 8 | 15-SEP-11 11:30 | 19-SEP-11 17:44 | 48 | 102 | hours | EHTL |
| | 9 | 15-SEP-11 13:50 | 19-SEP-11 17:44 | 48 | 100 | hours | EHTL |
| Aggregate Organics | | | | | | | |
| Carbonaceous BOD | | | | | | | |
| | 1 | 15-SEP-11 09:45 | 17-SEP-11 10:32 | 48 | 49 | hours | EHTR |
| | 5 | 15-SEP-11 09:25 | 17-SEP-11 10:32 | 48 | 49 | hours | EHTR |
| Organic Parameters | | | | | | | |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| | 1 | 15-SEP-11 09:45 | 17-SEP-11 10:30 | 48 | 49 | hours | EHTR |
| | 5 | 15-SEP-11 09:25 | 17-SEP-11 10:30 | 48 | 49 | 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 L1060062 were received on 17-SEP-11 10:30.

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

Quality Control Report

Workorder: L1060062

Report Date: 06-OCT-11

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

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Contact: Clifton Samoiloff

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.



C



COC #

L1060062

Page 1 of 5

Report To

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

Report

Standard Other PDF Excel Digital Fax

Email 1: cliff.samoiloff@aecom.com
 Email 2: shawna.kiantanson@aecom.com
 Email 3: mark.hadfield@aecom.com

Client / Project Information

Job #: 60213483-300
 PO / AFE: _____
 LSD: _____

Quote #: Q24534
 ALS Contact: Christine Herrod

| Sample # | Sample Identification (This description will appear on the report) | Date (dd-mm-yy) | Time (hh:mm) | Sampler: | Sample Type | Analysis Request | | | | | | | | | | Number of Containers | |
|----------|---|--------------------|-----------------|----------|-------------|---------------------------|----------------------------|----------------------------------|--------------|------|-------------------|---------------------|-------------------------|----------|---|----------------------|---|
| | | | | | | Chlorophylla / Pheophytin | Acidity, Colour, Turbidity | Antions, Br, silica, ph, ec, Alk | NH3, TKN, PT | CBOD | Solids (TSS, TDS) | Metals & Hg - Total | Metals & Hg - Dissolved | TOC, DOC | | | |
| 1 | ARL-01 | 15 Sep 11 | 9:45 | | water | X | X | X | X | X | X | X | X | X | X | X | 6 |
| 2 | ARL-02 | | 14:15 | | | X | X | X | X | X | X | X | X | X | X | X | 6 |
| 3 | ANB-01 | | 15:00 | | | X | X | X | X | X | X | X | X | X | X | X | 6 |
| 4 | ANB-02 | | 16:00 | | | X | X | X | X | X | X | X | X | X | X | X | 6 |
| 5 | ANB-05 | | 9:05 | | | X | X | X | X | X | X | X | X | X | X | X | 6 |
| 6 | THL-01 | | 10:30 | | | X | X | X | X | X | X | X | X | X | X | X | 6 |
| 7 | THL-02 | | 11:30 | | | X | X | X | X | X | X | X | X | X | X | X | 6 |
| 8 | THL-03 | | 11:30 | | | X | X | X | X | X | X | X | X | X | X | X | 6 |
| 9 | DUP-02 | | 13:50 | | | X | X | X | X | X | X | X | X | X | X | X | 6 |
| 10 | ANC-01 | | | | | X | X | X | X | X | X | X | X | X | X | X | 6 |

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

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

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.

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

Released by: *bu* Date (dd-mm-yy): *Sept 17* Time (hh-mm): *10:20am* Temperature: *8* °C

Received by: _____ Date: _____ Time: _____

SHIPMENT RECEIPT (lab use only) SHIPMENT VERIFICATION (lab use only)

Verified by: _____ Date: _____ Time: _____

Observations: Yes / No? If Yes add SIF

GENF 18.01 Front



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

Date Received: 17-SEP-11
Report Date: 07-OCT-11 14:17 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1060063
Project P.O. #: NOT SUBMITTED
Job Reference: 60212435-300
C of C Numbers:
Legal Site Desc:

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
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060063-1 STC03 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 14:40 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 2.93 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 2.89 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 4.4 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | 0.325 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 1.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 141 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 30.9 | | 1.0 | mg/L | | 22-SEP-11 | R2256631 |
| Hardness (as CaCO3) | 145 | | 0.30 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 142 | | 0.20 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.081 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 13.5 | | 0.0050 | mg/L | | 28-SEP-11 | R2260561 |
| Total Dissolved Solids | 190 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Total Kjeldahl Nitrogen | 1.14 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 32.5 | | 1.0 | mg/L | | 22-SEP-11 | R2256631 |
| Total Suspended Solids | 14.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Turbidity | 1.32 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0925 | | 0.0050 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Arsenic (As)-Total | 0.00121 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Barium (Ba)-Total | 0.0156 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Boron (B)-Total | 0.015 | | 0.010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 32.6 | | 0.10 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Cobalt (Co)-Total | 0.00036 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Copper (Cu)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Iron (Fe)-Total | 1.43 | | 0.10 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Lithium (Li)-Total | 0.0036 | | 0.0020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | 15.5 | | 0.010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Manganese (Mn)-Total | 0.469 | | 0.00030 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060063-1 STC03 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 14:40 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Potassium (K)-Total | 1.41 | | 0.020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Rubidium (Rb)-Total | 0.00083 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Silicon (Si)-Total | 6.56 | | 0.050 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Sodium (Na)-Total | 9.46 | | 0.030 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Strontium (Sr)-Total | 0.0913 | | 0.00010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Titanium (Ti)-Total | 0.00445 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Vanadium (V)-Total | 0.00052 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0121 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00107 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0102 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | 0.013 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 31.0 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00022 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | 0.75 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0042 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 15.8 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.120 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 1.32 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00072 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 5.62 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 9.85 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0938 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060063-1 STC03 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 14:40 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Titanium (Ti)-Dissolved | 0.00070 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00045 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 4.54 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 3.76 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 150 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 183 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 256 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 7.90 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060063-2 STC02 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 16:12 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 5.10 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 31.7 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 2.7 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 3.9 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 130 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 34.8 | | 1.0 | mg/L | | 22-SEP-11 | R2256631 |
| Hardness (as CaCO3) | 176 | | 0.30 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 170 | | 0.20 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.047 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 5.56 | | 0.0050 | mg/L | | 28-SEP-11 | R2260561 |
| Total Dissolved Solids | 230 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Total Kjeldahl Nitrogen | 1.39 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 36.3 | | 1.0 | mg/L | | 22-SEP-11 | R2256631 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060063-2 STC02 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 16:12 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Suspended Solids | 30.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Turbidity | 1.73 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0593 | | 0.0050 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Arsenic (As)-Total | 0.00071 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Barium (Ba)-Total | 0.0284 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Boron (B)-Total | 0.018 | | 0.010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 42.4 | | 0.10 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Cobalt (Co)-Total | 0.00022 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Copper (Cu)-Total | 0.00053 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Iron (Fe)-Total | 0.17 | | 0.10 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Lithium (Li)-Total | 0.0049 | | 0.0020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | 17.0 | | 0.010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Manganese (Mn)-Total | 0.0289 | | 0.00030 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Potassium (K)-Total | 1.21 | | 0.020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Rubidium (Rb)-Total | 0.00115 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Silicon (Si)-Total | 2.97 | | 0.050 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Sodium (Na)-Total | 9.66 | | 0.030 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Strontium (Sr)-Total | 0.126 | | 0.00010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Titanium (Ti)-Total | 0.00278 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Vanadium (V)-Total | 0.00025 | | 0.00020 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 23-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0081 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00072 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0213 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | 0.018 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 39.8 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060063-2 STC02 | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 16:12 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00024 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0053 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 17.2 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00613 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 1.16 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00106 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 2.57 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 9.67 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.125 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | 0.00037 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00052 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.00020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 11.4 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 9.98 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 149 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 181 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 307 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 8.07 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060063-3 STC01 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 10:10 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 5.17 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | 0.16 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060063-3 STC01 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 10:10 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 37.2 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.6 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | <1.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 49.7 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 21.9 | | 1.0 | mg/L | | 22-SEP-11 | R2256631 |
| Hardness (as CaCO3) | 215 | | 0.20 | mg/L | | 28-SEP-11 | |
| Hardness (as CaCO3) | 223 | | 0.30 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | <0.010 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 7.77 | | 0.0050 | mg/L | | 28-SEP-11 | R2260561 |
| Total Dissolved Solids | 264 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Total Kjeldahl Nitrogen | 0.73 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 23.1 | | 1.0 | mg/L | | 22-SEP-11 | R2256631 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Turbidity | 0.27 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0308 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Arsenic (As)-Total | 0.00106 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Barium (Ba)-Total | 0.0285 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Boron (B)-Total | 0.031 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | 0.000014 | | 0.000010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 54.4 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cobalt (Co)-Total | 0.00219 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Copper (Cu)-Total | 0.00957 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Iron (Fe)-Total | 0.23 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lithium (Li)-Total | 0.0031 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | 21.2 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Manganese (Mn)-Total | 0.318 | | 0.00030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | 0.00021 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Nickel (Ni)-Total | 0.0021 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Potassium (K)-Total | 3.66 | | 0.020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Rubidium (Rb)-Total | 0.00135 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silicon (Si)-Total | 4.84 | | 0.050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Sodium (Na)-Total | 9.73 | | 0.030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060063-3 STC01 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 10:10 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Strontium (Sr)-Total | 0.134 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Titanium (Ti)-Total | 0.00086 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Uranium (U)-Total | 0.00035 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zinc (Zn)-Total | 0.0178 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0150 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00106 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0227 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | 0.032 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | 0.000016 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 51.9 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | 0.00128 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00915 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0044 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 20.8 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.205 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | 0.00023 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | 0.0018 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 3.53 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00144 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 3.50 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 9.98 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.130 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | 0.00024 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | 0.00031 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Zinc (Zn)-Dissolved | 0.0143 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060063-3 STC01 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 10:10 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 0.35 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 0.52 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 193 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 235 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 419 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 8.14 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060063-4 STL01 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 14:40 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 54.2 | | 2.5 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | 1.06 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.25 | | 0.25 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.25 | | 0.25 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 964 | | 2.5 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 235 | | 25 | mg/L | | 23-SEP-11 | R2256873 |
| Ammonia as N | 4.29 | DLA | 0.50 | mg/L | | 03-OCT-11 | R2262851 |
| Bromide (Br) | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | <1.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | <5.0 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | <1.0 | | 1.0 | mg/L | | 23-SEP-11 | R2257774 |
| Hardness (as CaCO3) | 723 | | 0.30 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 785 | | 0.20 | mg/L | | 28-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.35 | | 0.35 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | <0.010 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 8.41 | | 0.0050 | mg/L | | 28-SEP-11 | R2260561 |
| Total Dissolved Solids | 1290 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Total Kjeldahl Nitrogen | 4.31 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | <1.0 | | 1.0 | mg/L | | 23-SEP-11 | R2257774 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Turbidity | 0.16 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 21.0 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Arsenic (As)-Total | 0.00099 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Barium (Ba)-Total | 0.0197 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|----------|-------|-----------|-----------|----------|
| L1060063-4 STL01 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 14:40 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Beryllium (Be)-Total | 0.00027 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Boron (B)-Total | 0.039 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | 0.00555 | | 0.000010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 147 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cesium (Cs)-Total | 0.00019 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cobalt (Co)-Total | 0.283 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Copper (Cu)-Total | 0.180 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Iron (Fe)-Total | 9.32 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lead (Pb)-Total | 0.00290 | | 0.000090 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lithium (Li)-Total | 0.0451 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | 86.5 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Manganese (Mn)-Total | 3.45 | | 0.00030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Nickel (Ni)-Total | 0.0380 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Potassium (K)-Total | 7.62 | | 0.020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Rubidium (Rb)-Total | 0.0120 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Selenium (Se)-Total | 0.0011 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silicon (Si)-Total | 3.52 | | 0.050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Sodium (Na)-Total | 22.6 | | 0.030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Strontium (Sr)-Total | 0.276 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Titanium (Ti)-Total | 0.00688 | | 0.00020 | mg/L | 23-SEP-11 | 27-SEP-11 | R2259333 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Uranium (U)-Total | 0.00019 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zinc (Zn)-Total | 6.71 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 25.3 | | 0.0020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Antimony (Sb)-Dissolved | 0.00030 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00072 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0155 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | 0.00041 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | 0.033 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | 0.00520 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 162 | | 0.050 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Cesium (Cs)-Dissolved | 0.00016 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | 0.271 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Copper (Cu)-Dissolved | 0.203 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Iron (Fe)-Dissolved | 8.50 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | 0.00306 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0458 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|----------|-----------|-----------|----------|
| L1060063-4 STL01 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 14:40 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Magnesium (Mg)-Dissolved | 92.5 | | 0.010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Manganese (Mn)-Dissolved | 3.55 | | 0.00010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | 0.0416 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 6.14 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.0124 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 3.05 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 21.4 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.276 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | 0.00702 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | 0.00018 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | 6.80 | | 0.0020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | <0.10 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 0.16 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | <1.0 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | <2.0 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 1770 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 2.95 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060063-5 STL02 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 13:10 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 53.9 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | 0.94 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 920 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 236 | | 25 | mg/L | | 23-SEP-11 | R2256873 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060063-5 STL02 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 13:10 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Ammonia as N | 4.39 | DLA | 0.50 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | <1.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | <5.0 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | <1.0 | | 1.0 | mg/L | | 22-SEP-11 | R2256631 |
| Hardness (as CaCO3) | 752 | | 0.30 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 783 | | 0.20 | mg/L | | 28-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.012 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 7.98 | | 0.0050 | mg/L | | 28-SEP-11 | R2260561 |
| Total Dissolved Solids | 1350 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Total Kjeldahl Nitrogen | 4.51 | | 0.20 | mg/L | 30-SEP-11 | 04-OCT-11 | R2262878 |
| Total Organic Carbon | <1.0 | | 1.0 | mg/L | | 22-SEP-11 | R2256631 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Turbidity | 0.20 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 21.3 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Arsenic (As)-Total | 0.00100 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Barium (Ba)-Total | 0.0192 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Beryllium (Be)-Total | 0.00021 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Boron (B)-Total | 0.040 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | 0.00528 | | 0.000010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 152 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cesium (Cs)-Total | 0.00018 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cobalt (Co)-Total | 0.278 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Copper (Cu)-Total | 0.175 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Iron (Fe)-Total | 9.21 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lead (Pb)-Total | 0.00279 | | 0.000090 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lithium (Li)-Total | 0.0462 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | 90.6 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Manganese (Mn)-Total | 3.62 | | 0.00030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Nickel (Ni)-Total | 0.0374 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Potassium (K)-Total | 7.35 | | 0.020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Rubidium (Rb)-Total | 0.0112 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Selenium (Se)-Total | 0.0012 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silicon (Si)-Total | 3.48 | | 0.050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Sodium (Na)-Total | 24.5 | | 0.030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Strontium (Sr)-Total | 0.263 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Titanium (Ti)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|----------|-------|-----------|-----------|----------|
| L1060063-5 STL02 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 13:10 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Uranium (U)-Total | 0.00018 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zinc (Zn)-Total | 6.71 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 24.6 | | 0.0020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Antimony (Sb)-Dissolved | 0.00026 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00070 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0153 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | 0.00039 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | 0.032 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | 0.00529 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 161 | | 0.050 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Cesium (Cs)-Dissolved | 0.00016 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | 0.280 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Copper (Cu)-Dissolved | 0.204 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Iron (Fe)-Dissolved | 8.18 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | 0.00308 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0439 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 92.5 | | 0.010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Manganese (Mn)-Dissolved | 3.67 | | 0.00010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | 0.0410 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 6.06 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.0127 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 2.91 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 19.9 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.289 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | 0.00018 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | 6.54 | | 0.0020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | <0.10 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 0.15 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | <1.0 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | <2.0 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060063-5 STL02 Sampled By: CLIENT on 16-SEP-11 @ 13:10 Matrix: WATER | | | | | | | |
| Alkalinity Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity Conductivity | 1760 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH pH | 2.95 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060063-6 STL03 Sampled By: CLIENT on 16-SEP-11 @ 11:45 Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride Chloride | 55.0 | | 2.5 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride Fluoride | 0.98 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N Nitrate-N | <0.25 | | 0.25 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N Nitrite-N | <0.25 | | 0.25 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate Sulfate | 976 | | 2.5 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 236 | | 25 | mg/L | | 23-SEP-11 | R2256873 |
| Ammonia as N | 4.28 | DLA | 0.50 | mg/L | | 03-OCT-11 | R2262851 |
| Bromide (Br) | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | <1.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | <5.0 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | <1.0 | | 1.0 | mg/L | | 22-SEP-11 | R2256631 |
| Hardness (as CaCO3) | 790 | | 0.20 | mg/L | | 28-SEP-11 | |
| Hardness (as CaCO3) | 715 | | 0.30 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.35 | | 0.35 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.011 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 8.23 | | 0.0050 | mg/L | | 28-SEP-11 | R2260561 |
| Total Dissolved Solids | 1320 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Total Kjeldahl Nitrogen | 4.31 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | <1.0 | | 1.0 | mg/L | | 22-SEP-11 | R2256631 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 27-SEP-11 | R2259447 |
| Turbidity | 0.17 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 21.4 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Arsenic (As)-Total | 0.00100 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Barium (Ba)-Total | 0.0197 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Beryllium (Be)-Total | 0.00034 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Boron (B)-Total | 0.040 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | 0.00555 | | 0.000010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 144 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cesium (Cs)-Total | 0.00019 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|----------|-------|-----------|-----------|----------|
| L1060063-6 STL03 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 11:45 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Cobalt (Co)-Total | 0.282 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Copper (Cu)-Total | 0.177 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Iron (Fe)-Total | 9.55 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lead (Pb)-Total | 0.00285 | | 0.000090 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lithium (Li)-Total | 0.0457 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | 86.3 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Manganese (Mn)-Total | 3.35 | | 0.00030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Nickel (Ni)-Total | 0.0382 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Potassium (K)-Total | 7.45 | | 0.020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Rubidium (Rb)-Total | 0.0120 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Selenium (Se)-Total | 0.0013 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silicon (Si)-Total | 3.34 | | 0.050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Sodium (Na)-Total | 24.4 | | 0.030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Strontium (Sr)-Total | 0.283 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Titanium (Ti)-Total | 0.00031 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Uranium (U)-Total | 0.00019 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zinc (Zn)-Total | 6.56 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 24.1 | | 0.0020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Antimony (Sb)-Dissolved | 0.00024 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00069 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0153 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | 0.00037 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | 0.030 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | 0.00529 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 163 | | 0.050 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Cesium (Cs)-Dissolved | 0.00016 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | 0.268 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Copper (Cu)-Dissolved | 0.205 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Iron (Fe)-Dissolved | 8.28 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | 0.00299 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0447 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 92.9 | | 0.010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Manganese (Mn)-Dissolved | 3.55 | | 0.00010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | 0.0403 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 5.90 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.0123 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|----------|-----------|-----------|----------|
| L1060063-6 STL03 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 11:45 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 2.86 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 19.2 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.283 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | 0.00018 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | 6.96 | | 0.0020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259333 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | <0.10 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 0.27 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | <1.0 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | <2.0 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 1760 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 2.95 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060063-7 FLB02 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 13:15 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.5 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | <1.0 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | <5.0 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | <1.0 | | 1.0 | mg/L | | 22-SEP-11 | R2256631 |
| Hardness (as CaCO3) | <0.20 | | 0.20 | mg/L | | 28-SEP-11 | |
| Hardness (as CaCO3) | 0.38 | | 0.30 | mg/L | | 26-SEP-11 | |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060063-7 FLB02 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 13:15 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | <0.010 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | <0.0050 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | <5.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Total Kjeldahl Nitrogen | <0.20 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | <1.0 | | 1.0 | mg/L | | 22-SEP-11 | R2256631 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Turbidity | <0.10 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | <0.0050 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Arsenic (As)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Barium (Ba)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Calcium (Ca)-Total | 0.15 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Copper (Cu)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Iron (Fe)-Total | <0.10 | | 0.10 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Lithium (Li)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Magnesium (Mg)-Total | <0.010 | | 0.010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Manganese (Mn)-Total | <0.00030 | | 0.00030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Potassium (K)-Total | <0.020 | | 0.020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Rubidium (Rb)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silicon (Si)-Total | <0.050 | | 0.050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Sodium (Na)-Total | <0.030 | | 0.030 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Strontium (Sr)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Titanium (Ti)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 23-SEP-11 | 24-SEP-11 | R2257780 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060063-7 FLB02 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 13:15 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Arsenic (As)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Barium (Ba)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Calcium (Ca)-Dissolved | <0.050 | | 0.050 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Copper (Cu)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Lithium (Li)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Magnesium (Mg)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Manganese (Mn)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Potassium (K)-Dissolved | <0.020 | | 0.020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Rubidium (Rb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Silicon (Si)-Dissolved | <0.050 | | 0.050 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Sodium (Na)-Dissolved | <0.020 | | 0.020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Strontium (Sr)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 27-SEP-11 | R2259295 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | <0.10 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | <0.10 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 5.6 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 6.8 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 1.41 | | 0.40 | umhos/cm | | 19-SEP-11 | R2254103 |
| pH | | | | | | | |
| pH | 6.19 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |

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

Reference Information

Qualifiers for Individual Samples Listed:

| Sample Number | Client ID | Qualifier | Description |
|---------------|-----------|-----------|---|
| L1060063-4 | STL01 | LPM | Lab Preserved for Metals. Received with pH > 2, preserved at the lab and held for 16 hours in accordance with EPA 200.8 |

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** |
|--|--------|--|---|
| ACY-8.3-PCT-WP | Water | Acidity (as CaCO ₃) | APHA 2310 B |
| Acidity is measured using auto-titration with sodium hydroxide to an endpoint of pH 8.3 | | | |
| ACY-L-8.3-PCT-WP | Water | Acidity | APHA 2310 B |
| Acidity is measured using auto-titration with sodium hydroxide to an endpoint of pH 8.3 | | | |
| ALK-TOT-WP | Water | Alkalinity | APHA 2320B |
| Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically. | | | |
| BR-IC-WP | Water | Bromide | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| C-DIS-ORG-WP | Water | Dissolved Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| C-TOT-ORG-WP | Water | Total Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| CHL,PHEO-FLUORO-WP | Water | Chlorophyll a, Pheophytin by fluorometry | EPA 445.0 |
| Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification. | | | |
| CL-IC-WP | Water | Chloride | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| COLOUR-TRUE-WP | Water | Colour, True | APHA 2120C |
| True colour in water is analyzed by discrete analyzer using the platinum-cobalt colourimetric method. Colour is pH dependant; unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit. | | | |
| CONSULT-BOD-CBOD- | Water | Carbonaceous BOD | APHA 5210 B-5 day Incub.-O ₂ electrode |

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------------|--------|---|---------------------------------------|
| WP | | | |
| | | A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis. | |
| EC-WP | Water | Conductivity | APHA 2510B |
| | | Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes. | |
| ETL-HARDNESS-DIS-WP | Water | Hardness Calculated | HARDNESS CALCULATED |
| ETL-HARDNESS-TOT-WP | Water | Hardness Calculated | HARDNESS CALCULATED |
| F-IC-WP | Water | Fluoride | EPA 300.1 IC |
| | | This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | |
| HG-D-CVAF-WP | Water | Mercury Dissolved | EPA245.7 V2.0 |
| | | Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry. | |
| HG-T-CVAF-WP | Water | Mercury Total | EPA245.7 V2.0 |
| | | Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry. | |
| MET-D-L-MS-WP | Water | Dissolved Metals by ICP-MS | U.S. EPA 200.8-DL |
| | | Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry. | |
| MET-T-L-MS-WP | Water | Total Metals by ICP-MS | U.S. EPA 200.8-TL |
| | | Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry. | |
| N-TOTKJ-WP | Water | Total Kjeldahl Nitrogen | Quickchem method 10-107-06-2-E Lachat |
| | | Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration. | |
| NH3-COL-WP | Water | Ammonia by colour | APHA 4500 NH3 F |
| | | Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically. | |
| NO2+NO3-CALC-WP | Water | Nitrate+Nitrite | CALCULATION |
| NO2-IC-WP | Water | Nitrite as N | EPA 300.1 IC |
| NO3-IC-WP | Water | Nitrate as N | EPA 300.1 IC |
| P-T-COL-WP | Water | Phosphorus, Total | APHA 4500 P PHOSPHORUS |
| | | This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample. | |
| PH-WP | Water | pH | APHA 4500H |
| | | The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode. | |

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|---------------------------|-----------------------|
| SIO2-L-COL-WP | Water | Reactive Silica by colour | APHA 4500 SIO2 |
| This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method. | | | |
| SO4-IC-WP | Water | Sulfate | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| SOLIDS-TDS-WP | Water | Total Dissolved Solids | APHA 2540C |
| The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature. | | | |
| SOLIDS-TOTSUS-WP | Water | Total Suspended Solids | APHA 2540D |
| The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C. | | | |
| TURBIDITY-WP | Water | Turbidity | APHA 2130B (modified) |
| Turbidity in aqueous matrices is determined by the nephelometric method. | | | |

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|-----------------|--------------------|--------|-----------|-------|------|--------|-----------|
| ACY-8.3-PCT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256873 | | | | | | | |
| WG1354937-3 | DUP | L1060063-6 | | | | | | |
| Acidity (as CaCO3) | | 236 | 237 | | mg/L | 0.56 | 25 | 23-SEP-11 |
| WG1354937-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 102 | | % | | 70-130 | 23-SEP-11 |
| WG1354937-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | <25 | | mg/L | | 25 | 23-SEP-11 |
| ACY-L-8.3-PCT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256906 | | | | | | | |
| WG1355010-3 | DUP | L1060044-1 | | | | | | |
| Acidity (as CaCO3) | | 2.8 | 2.7 | | mg/L | 6.0 | 25 | 21-SEP-11 |
| WG1355010-4 | DUP | L1060061-1 | | | | | | |
| Acidity (as CaCO3) | | 1.8 | 1.8 | | mg/L | 0.13 | 25 | 21-SEP-11 |
| WG1355010-5 | DUP | L1060062-5 | | | | | | |
| Acidity (as CaCO3) | | 1.0 | 1.1 | | mg/L | 4.0 | 25 | 21-SEP-11 |
| WG1355010-6 | DUP | L1060063-7 | | | | | | |
| Acidity (as CaCO3) | | 1.5 | 1.5 | | mg/L | 2.4 | 25 | 21-SEP-11 |
| WG1355010-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 106 | | % | | 70-130 | 21-SEP-11 |
| WG1355010-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | <1.0 | | mg/L | | 1 | 21-SEP-11 |
| ALK-TOT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-3 | CVS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 103 | | % | | 85-115 | 17-SEP-11 |
| WG1351525-4 | DUP | L1059370-11 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 5.1 | 5.9 | | mg/L | 14 | 20 | 17-SEP-11 |
| Bicarbonate (HCO3) | | 6.3 | 7.2 | | mg/L | 14 | 25 | 17-SEP-11 |
| Carbonate (CO3) | | <0.60 | <0.60 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| Hydroxide (OH) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 246 | 247 | | mg/L | 0.25 | 20 | 17-SEP-11 |
| Bicarbonate (HCO3) | | 274 | 270 | | mg/L | 1.3 | 25 | 17-SEP-11 |
| Carbonate (CO3) | | 9.36 | 11.5 | | mg/L | 20 | 25 | 17-SEP-11 |
| Hydroxide (OH) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| BR-IC-WP | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| BR-IC-WP | | Water | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Bromide (Br) | | | 96 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Bromide (Br) | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| C-DIS-ORG-WP | | Water | | | | | | |
| Batch | R2256631 | | | | | | | |
| WG1354641-2 | CVS | | | | | | | |
| Dissolved Organic Carbon | | | 102 | | % | | 80-120 | 22-SEP-11 |
| WG1354639-2 | DUP | L1060063-1 | | | | | | |
| Dissolved Organic Carbon | | 30.9 | 30.9 | | mg/L | 0.12 | 20 | 22-SEP-11 |
| WG1354639-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <1.0 | | mg/L | | 1 | 22-SEP-11 |
| Batch | R2257774 | | | | | | | |
| WG1355953-2 | CVS | | | | | | | |
| Dissolved Organic Carbon | | | 99 | | % | | 80-120 | 23-SEP-11 |
| C-TOT-ORG-WP | | Water | | | | | | |
| Batch | R2256631 | | | | | | | |
| WG1354641-2 | CVS | | | | | | | |
| Total Organic Carbon | | | 101 | | % | | 80-120 | 22-SEP-11 |
| WG1354641-1 | MB | | | | | | | |
| Total Organic Carbon | | | <1.0 | | mg/L | | 1 | 22-SEP-11 |
| Batch | R2257774 | | | | | | | |
| WG1355953-2 | CVS | | | | | | | |
| Total Organic Carbon | | | 100 | | % | | 80-120 | 23-SEP-11 |
| WG1355953-1 | MB | | | | | | | |
| Total Organic Carbon | | | <1.0 | | mg/L | | 1 | 23-SEP-11 |
| CHL,PHEO-FLUORO-WP | | Water | | | | | | |
| Batch | R2256774 | | | | | | | |
| WG1354255-1 | CVS | | | | | | | |
| Chlorophyll a | | | 82 | | % | | 65-135 | 23-SEP-11 |
| WG1354255-2 | CVS | | | | | | | |
| Chlorophyll a | | | 112 | | % | | 65-135 | 23-SEP-11 |
| WG1354200-2 | DUP | L1060065-1 | | | | | | |
| Chlorophyll a | | 11.5 | 10.6 | | ug/L | 8.0 | 35 | 23-SEP-11 |
| Phaeophytin a | | 1.89 | 2.29 | | ug/L | 19 | 35 | 23-SEP-11 |
| WG1354200-3 | DUP | L1060067-1 | | | | | | |



Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| CHL,PHEO-FLUORO-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256774 | | | | | | | |
| WG1354200-3 | DUP | L1060067-1 | | | | | | |
| Chlorophyll a | | 2.84 | 2.88 | | ug/L | 1.4 | 35 | 23-SEP-11 |
| Phaeophytin a | | 1.88 | 1.95 | | ug/L | 3.7 | 35 | 23-SEP-11 |
| WG1354200-1 | MB | | | | | | | |
| Chlorophyll a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| Phaeophytin a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| CL-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Chloride | | 1.58 | 1.58 | | mg/L | 0.22 | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Chloride | | | 100 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Chloride | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Chloride | | | 107 | | % | | 75-125 | 19-SEP-11 |
| COLOUR-TRUE-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253828 | | | | | | | |
| WG1351569-3 | DUP | L1059499-2 | | | | | | |
| Colour, True | | 23.3 | 24.9 | | CU | 6.6 | 400 | 17-SEP-11 |
| WG1351569-4 | DUP | L1060060-2 | | | | | | |
| Colour, True | | 27.5 | 32.7 | | CU | 17 | 20 | 17-SEP-11 |
| WG1351569-2 | LCS | | | | | | | |
| Colour, True | | | 100 | | % | | 85-115 | 17-SEP-11 |
| WG1351569-1 | MB | | | | | | | |
| Colour, True | | | <5.0 | | CU | | 5 | 17-SEP-11 |
| CONSULT-BOD-CBOD-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255920 | | | | | | | |
| WG1351515-3 | DUP | L1060060-2 | | | | | | |
| WG1351515-4 | DUP | L1060062-7 | | | | | | |
| BOD Carbonaceous | | 2.0 | 2.1 | | mg/L | 4.9 | 400 | 22-SEP-11 |
| WG1351515-5 | DUP | L1060065-2 | | | | | | |
| BOD Carbonaceous | | 1.3 | 1.4 | | mg/L | 7.4 | 400 | 22-SEP-11 |
| WG1351515-2 | IRM | 61-GG | | | | | | |
| BOD Carbonaceous | | | 93 | | % | | 85-115 | 22-SEP-11 |
| WG1351515-1 | MB | | | | | | | |
| BOD Carbonaceous | | | <1.0 | | mg/L | | 1 | 22-SEP-11 |



Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|-----------|-----------|----------|------|---------|-----------|
| EC-WP | | Water | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-1 | CVS | | | | | | | |
| Conductivity | | | 96 | | % | | 90-110 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| Conductivity | | 799 | 798 | | umhos/cm | 0.15 | 10 | 17-SEP-11 |
| Batch | R2254103 | | | | | | | |
| WG1351828-1 | CVS | | | | | | | |
| Conductivity | | | 99 | | % | | 90-110 | 19-SEP-11 |
| WG1351828-2 | DUP | L1060058-2 | | | | | | |
| Conductivity | | 0.98 | 0.97 | | umhos/cm | 1.0 | 400 | 19-SEP-11 |
| F-IC-WP | | Water | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Fluoride | | | 101 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Fluoride | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| HG-D-CVAF-WP | | Water | | | | | | |
| Batch | R2264510 | | | | | | | |
| WG1363399-5 | DUP | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| WG1363399-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |
| WG1363399-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| WG1363406-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| WG1363399-6 | MS | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |
| HG-T-CVAF-WP | | Water | | | | | | |
| Batch | R2263097 | | | | | | | |
| WG1361800-3 | DUP | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | <0.000050 | <0.000050 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-5 | DUP | L1060062-5 | | | | | | |



Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|-----------|-----------|-------|------|---------|-----------|
| HG-T-CVAF-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2263097 | | | | | | | |
| WG1361800-5 | DUP | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | <0.000050 | 0.000070 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 100 | | % | | 80-120 | 30-SEP-11 |
| WG1361800-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000050 | | mg/L | | 0.00005 | 30-SEP-11 |
| WG1361800-4 | MS | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | | 93 | | % | | 70-130 | 30-SEP-11 |
| WG1361800-6 | MS | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | | 85 | | % | | 70-130 | 30-SEP-11 |
| MET-D-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 | DUP | WG1356177-3 | | | | | | |
| Aluminum (Al)-Dissolved | | 2.03 | 1.99 | | mg/L | 1.8 | 20 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | 1.02 | 1.01 | | mg/L | 1.2 | 20 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | 1.00 | 1.01 | | mg/L | 0.34 | 20 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | 0.256 | 0.252 | | mg/L | 1.3 | 20 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | 0.105 | 0.101 | | mg/L | 3.4 | 20 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | 1.02 | 1.03 | | mg/L | 0.20 | 20 | 23-SEP-11 |
| Boron (B)-Dissolved | | 1.03 | 1.00 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | 0.103 | 0.106 | | mg/L | 2.7 | 20 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | 50.2 | 50.5 | | mg/L | 0.69 | 20 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | 0.0493 | 0.0489 | | mg/L | 0.70 | 20 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | 0.249 | 0.251 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | 0.257 | 0.256 | | mg/L | 0.20 | 20 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | 0.250 | 0.252 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | 1.00 | 1.01 | | mg/L | 0.49 | 20 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | 0.514 | 0.503 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | 0.263 | 0.254 | | mg/L | 3.7 | 20 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | 50.5 | 50.9 | | mg/L | 0.73 | 20 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | 0.247 | 0.252 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | 0.255 | 0.261 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | 0.513 | 0.520 | | mg/L | 1.4 | 20 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | 2.61 | 2.67 | | mg/L | 2.4 | 20 | 23-SEP-11 |
| Potassium (K)-Dissolved | | 51.8 | 50.9 | | mg/L | 1.8 | 20 | 23-SEP-11 |



Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|---------|-----------|-------|------|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 | DUP | WG1356177-3 | | | | | | |
| Rubidium (Rb)-Dissolved | | 0.101 | 0.103 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | 1.01 | 1.01 | | mg/L | 0.29 | 20 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | 1.01 | 1.00 | | mg/L | 0.38 | 20 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | 0.108 | 0.113 | | mg/L | 4.5 | 20 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | 51.4 | 51.9 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | 0.254 | 0.262 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | 0.103 | 0.105 | | mg/L | 1.9 | 20 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | 1.04 | 1.03 | | mg/L | 1.3 | 20 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | 0.0988 | 0.101 | | mg/L | 2.2 | 25 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | 0.523 | 0.540 | | mg/L | 3.1 | 20 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | 0.252 | 0.258 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | 0.101 | 0.0999 | | mg/L | 1.0 | 20 | 23-SEP-11 |
| Uranium (U)-Dissolved | | 0.00518 | 0.00498 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | 0.511 | 0.519 | | mg/L | 1.6 | 20 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | 0.510 | 0.516 | | mg/L | 1.2 | 20 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | 0.0994 | 0.103 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| WG1356177-2 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Boron (B)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |



Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-2 LCS | | | | | | | | |
| Magnesium (Mg)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Potassium (K)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | 108 | | % | | 80-120 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Uranium (U)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| WG1356177-1 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Boron (B)-Dissolved | | | <0.010 | | mg/L | | 0.03 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | <0.000010 | | mg/L | | 0.0002 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | | <0.050 | | mg/L | | 0.2 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | <0.0020 | | mg/L | | 0.002 | 23-SEP-11 |



Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|

MET-D-L-MS-WP **Water**

Batch **R2257942**

WG1356177-1 MB

| | | | | | | | | |
|---------------------------|--|--|-----------|--|------|--|--------|-----------|
| Cobalt (Co)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | <0.10 | | mg/L | | 0.1 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | <0.000090 | | mg/L | | 0.001 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | <0.0020 | | mg/L | | 0.01 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | | <0.010 | | mg/L | | 0.05 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | <0.0010 | | mg/L | | 0.002 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | <0.10 | | mg/L | | 0.5 | 23-SEP-11 |
| Potassium (K)-Dissolved | | | <0.020 | | mg/L | | 0.1 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | <0.0010 | | mg/L | | 0.005 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | <0.050 | | mg/L | | 0.3 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | | <0.020 | | mg/L | | 0.05 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | | <0.00010 | | mg/L | | 0.005 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | | <0.00020 | | mg/L | | 0.0006 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Uranium (U)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | | <0.00040 | | mg/L | | 0.001 | 23-SEP-11 |

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

Batch **R2257780**

WG1354838-4 DUP

WG1354838-3

| | | | | | | | | |
|---------------------|--|----------|----------|--------|------|-----|-----|-----------|
| Aluminum (Al)-Total | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Antimony (Sb)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Arsenic (As)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |



Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|-----------|-----------|-------|------|-------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2257780 | | | | | | | |
| WG1354838-4 | DUP | WG1354838-3 | | | | | | |
| Barium (Ba)-Total | | 0.00067 | 0.00068 | | mg/L | 1.6 | 400 | 23-SEP-11 |
| Beryllium (Be)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Bismuth (Bi)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Boron (B)-Total | | 0.059 | 0.060 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Cadmium (Cd)-Total | | <0.000010 | <0.000010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Calcium (Ca)-Total | | 0.81 | 0.80 | | mg/L | 0.98 | 20 | 23-SEP-11 |
| Cesium (Cs)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Chromium (Cr)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Cobalt (Co)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Copper (Cu)-Total | | 0.0345 | 0.0344 | | mg/L | 0.19 | 20 | 23-SEP-11 |
| Iron (Fe)-Total | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Lead (Pb)-Total | | 0.000105 | 0.000120 | | mg/L | 13 | 400 | 23-SEP-11 |
| Lithium (Li)-Total | | 0.0032 | 0.0033 | | mg/L | 2.9 | 400 | 23-SEP-11 |
| Magnesium (Mg)-Total | | 0.176 | 0.182 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Manganese (Mn)-Total | | <0.00030 | <0.00030 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Molybdenum (Mo)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Nickel (Ni)-Total | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Phosphorus (P)-Total | | <0.20 | <0.20 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Potassium (K)-Total | | 0.712 | 0.710 | | mg/L | 0.18 | 20 | 23-SEP-11 |
| Rubidium (Rb)-Total | | 0.00068 | 0.00064 | | mg/L | 5.3 | 400 | 23-SEP-11 |
| Selenium (Se)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Silicon (Si)-Total | | 0.198 | 0.192 | | mg/L | 2.7 | 400 | 23-SEP-11 |
| Silver (Ag)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Sodium (Na)-Total | | 14.6 | 15.6 | | mg/L | 6.5 | 20 | 23-SEP-11 |
| Strontium (Sr)-Total | | 0.00182 | 0.00183 | | mg/L | 0.11 | 20 | 23-SEP-11 |
| Tellurium (Te)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Thallium (Tl)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Thorium (Th)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 25 | 23-SEP-11 |
| Tin (Sn)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Titanium (Ti)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Tungsten (W)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Uranium (U)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Vanadium (V)-Total | | <0.00020 | <0.00020 | | mg/L | | | 23-SEP-11 |



Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|-----------|-----------|-------|------|-------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2257780 | | | | | | | |
| WG1354838-4 DUP | | WG1354838-3 | | | | | | |
| Vanadium (V)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Zinc (Zn)-Total | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Zirconium (Zr)-Total | | <0.00040 | <0.00040 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| WG1354838-6 DUP | | WG1354838-5 | | | | | | |
| Antimony (Sb)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Arsenic (As)-Total | | 0.00128 | 0.00122 | | mg/L | 4.6 | 20 | 23-SEP-11 |
| Barium (Ba)-Total | | 0.0992 | 0.102 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Beryllium (Be)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Bismuth (Bi)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Boron (B)-Total | | 0.233 | 0.234 | | mg/L | 0.33 | 20 | 23-SEP-11 |
| Cadmium (Cd)-Total | | <0.000010 | <0.000010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Calcium (Ca)-Total | | 63.8 | 65.8 | | mg/L | 3.0 | 20 | 23-SEP-11 |
| Cesium (Cs)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Chromium (Cr)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Cobalt (Co)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Copper (Cu)-Total | | 0.00160 | 0.00140 | | mg/L | 13 | 20 | 23-SEP-11 |
| Iron (Fe)-Total | | 0.27 | 0.22 | | mg/L | 19 | 400 | 23-SEP-11 |
| Lead (Pb)-Total | | 0.000144 | 0.000131 | | mg/L | 9.5 | 400 | 23-SEP-11 |
| Lithium (Li)-Total | | 0.0337 | 0.0336 | | mg/L | 0.35 | 20 | 23-SEP-11 |
| Magnesium (Mg)-Total | | 71.6 | 71.3 | | mg/L | 0.45 | 20 | 23-SEP-11 |
| Molybdenum (Mo)-Total | | 0.00353 | 0.00355 | | mg/L | 0.31 | 20 | 23-SEP-11 |
| Nickel (Ni)-Total | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Phosphorus (P)-Total | | <0.20 | <0.20 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Potassium (K)-Total | | 7.22 | 7.02 | | mg/L | 2.8 | 20 | 23-SEP-11 |
| Rubidium (Rb)-Total | | 0.00442 | 0.00448 | | mg/L | 1.5 | 20 | 23-SEP-11 |
| Selenium (Se)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Silicon (Si)-Total | | 5.96 | 5.91 | | mg/L | 0.80 | 20 | 23-SEP-11 |
| Silver (Ag)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Sodium (Na)-Total | | 11.7 | 11.8 | | mg/L | 0.77 | 20 | 23-SEP-11 |
| Strontium (Sr)-Total | | 0.459 | 0.472 | | mg/L | 2.8 | 20 | 23-SEP-11 |
| Tellurium (Te)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Thallium (Tl)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Thorium (Th)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 25 | 23-SEP-11 |



Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|----------|-----------|-------|-----|--------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2257780 | | | | | | | |
| WG1354838-6 | DUP | WG1354838-5 | | | | | | |
| Tin (Sn)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Titanium (Ti)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Tungsten (W)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Uranium (U)-Total | | 0.00150 | 0.00154 | | mg/L | 2.7 | 20 | 23-SEP-11 |
| Vanadium (V)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Zinc (Zn)-Total | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| Zirconium (Zr)-Total | | <0.00040 | <0.00040 | RPD-NA | mg/L | N/A | 400 | 23-SEP-11 |
| WG1354838-2 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 106 | | % | | 80-120 | 23-SEP-11 |
| Antimony (Sb)-Total | | | 93 | | % | | 80-120 | 23-SEP-11 |
| Arsenic (As)-Total | | | 98 | | % | | 80-120 | 23-SEP-11 |
| Barium (Ba)-Total | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Beryllium (Be)-Total | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Bismuth (Bi)-Total | | | 113 | | % | | 80-120 | 23-SEP-11 |
| Boron (B)-Total | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Cadmium (Cd)-Total | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Calcium (Ca)-Total | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Cesium (Cs)-Total | | | 97 | | % | | 80-120 | 23-SEP-11 |
| Chromium (Cr)-Total | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Cobalt (Co)-Total | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Copper (Cu)-Total | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Iron (Fe)-Total | | | 109 | | % | | 80-120 | 23-SEP-11 |
| Lead (Pb)-Total | | | 96 | | % | | 80-120 | 23-SEP-11 |
| Lithium (Li)-Total | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Magnesium (Mg)-Total | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Manganese (Mn)-Total | | | 108 | | % | | 80-120 | 23-SEP-11 |
| Molybdenum (Mo)-Total | | | 106 | | % | | 80-120 | 23-SEP-11 |
| Nickel (Ni)-Total | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Phosphorus (P)-Total | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Potassium (K)-Total | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Rubidium (Rb)-Total | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Selenium (Se)-Total | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Silicon (Si)-Total | | | 111 | | % | | 80-120 | 23-SEP-11 |



Quality Control Report

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|-----------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257780 | | | | | | | |
| WG1354838-2 | LCS | | | | | | | |
| Silver (Ag)-Total | | | 108 | | % | | 80-120 | 23-SEP-11 |
| Sodium (Na)-Total | | | 106 | | % | | 80-120 | 23-SEP-11 |
| Strontium (Sr)-Total | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Tellurium (Te)-Total | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Thallium (Tl)-Total | | | 106 | | % | | 80-120 | 23-SEP-11 |
| Thorium (Th)-Total | | | 84 | | % | | 70-130 | 23-SEP-11 |
| Tin (Sn)-Total | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Titanium (Ti)-Total | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Tungsten (W)-Total | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Uranium (U)-Total | | | 111 | | % | | 80-120 | 23-SEP-11 |
| Vanadium (V)-Total | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zinc (Zn)-Total | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Zirconium (Zr)-Total | | | 104 | | % | | 80-120 | 23-SEP-11 |
| WG1354838-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | <0.0050 | | mg/L | | 0.02 | 23-SEP-11 |
| Antimony (Sb)-Total | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Arsenic (As)-Total | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Barium (Ba)-Total | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Beryllium (Be)-Total | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Bismuth (Bi)-Total | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Boron (B)-Total | | | <0.010 | | mg/L | | 0.03 | 23-SEP-11 |
| Cadmium (Cd)-Total | | | <0.000010 | | mg/L | | 0.0002 | 23-SEP-11 |
| Calcium (Ca)-Total | | | <0.10 | | mg/L | | 0.2 | 23-SEP-11 |
| Cesium (Cs)-Total | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Chromium (Cr)-Total | | | <0.0010 | | mg/L | | 0.002 | 23-SEP-11 |
| Cobalt (Co)-Total | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Copper (Cu)-Total | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Iron (Fe)-Total | | | <0.10 | | mg/L | | 0.1 | 23-SEP-11 |
| Lead (Pb)-Total | | | <0.000090 | | mg/L | | 0.001 | 23-SEP-11 |
| Lithium (Li)-Total | | | <0.0020 | | mg/L | | 0.002 | 23-SEP-11 |
| Magnesium (Mg)-Total | | | <0.010 | | mg/L | | 0.05 | 23-SEP-11 |
| Manganese (Mn)-Total | | | <0.00030 | | mg/L | | 0.001 | 23-SEP-11 |
| Molybdenum (Mo)-Total | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Nickel (Ni)-Total | | | <0.0020 | | mg/L | | 0.002 | 23-SEP-11 |



Quality Control Report

Workorder: L1060063

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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 R2257780 | | | | | | | | |
| WG1354838-1 MB | | | | | | | | |
| Phosphorus (P)-Total | | | <0.20 | | mg/L | | 0.5 | 23-SEP-11 |
| Potassium (K)-Total | | | <0.020 | | mg/L | | 0.1 | 23-SEP-11 |
| Rubidium (Rb)-Total | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Selenium (Se)-Total | | | <0.0010 | | mg/L | | 0.005 | 23-SEP-11 |
| Silicon (Si)-Total | | | <0.050 | | mg/L | | 0.3 | 23-SEP-11 |
| Silver (Ag)-Total | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Sodium (Na)-Total | | | <0.030 | | mg/L | | 0.05 | 23-SEP-11 |
| Strontium (Sr)-Total | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Tellurium (Te)-Total | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Thallium (Tl)-Total | | | <0.00010 | | mg/L | | 0.005 | 23-SEP-11 |
| Thorium (Th)-Total | | | <0.00010 | | mg/L | | 0.0001 | 23-SEP-11 |
| Tin (Sn)-Total | | | <0.00020 | | mg/L | | 0.0006 | 23-SEP-11 |
| Titanium (Ti)-Total | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Tungsten (W)-Total | | | <0.0010 | | mg/L | | 0.002 | 23-SEP-11 |
| Uranium (U)-Total | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Vanadium (V)-Total | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Zinc (Zn)-Total | | | <0.0050 | | mg/L | | 0.02 | 23-SEP-11 |
| Zirconium (Zr)-Total | | | <0.00040 | | mg/L | | 0.001 | 23-SEP-11 |
| N-TOTKJ-WP | | Water | | | | | | |
| Batch R2255224 | | | | | | | | |
| WG1353102-1 CVS | | | | | | | | |
| Total Kjeldahl Nitrogen | | | 95 | | % | | 90-110 | 21-SEP-11 |
| WG1352408-4 DUP | | L1060071-2 | | | | | | |
| Total Kjeldahl Nitrogen | | 1.61 | 1.68 | | mg/L | 4.1 | 20 | 21-SEP-11 |
| WG1352408-6 DUP | | L1060073-3 | | | | | | |
| Total Kjeldahl Nitrogen | | 1.31 | 1.26 | | mg/L | 3.9 | 20 | 21-SEP-11 |
| WG1352408-2 LCS | | | | | | | | |
| Total Kjeldahl Nitrogen | | | 105 | | % | | 75-125 | 21-SEP-11 |
| WG1352408-1 MB | | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.20 | | mg/L | | 0.2 | 21-SEP-11 |
| WG1352408-3 MS | | L1060071-2 | | | | | | |
| Total Kjeldahl Nitrogen | | | N/A | MS-B | % | | - | 21-SEP-11 |
| WG1352408-5 MS | | L1060073-3 | | | | | | |
| Total Kjeldahl Nitrogen | | | N/A | MS-B | % | | - | 21-SEP-11 |



Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|-------|--------|-----------|
| N-TOTKJ-WP | | Water | | | | | | |
| Batch | R2262878 | | | | | | | |
| WG1361609-1 | CVS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 97 | | % | | 90-110 | 04-OCT-11 |
| WG1360034-4 | DUP | L1065092-1 | | | | | | |
| Total Kjeldahl Nitrogen | | 0.57 | 0.59 | | mg/L | 3.6 | 20 | 04-OCT-11 |
| WG1360034-6 | DUP | L1065114-1 | | | | | | |
| Total Kjeldahl Nitrogen | | 0.83 | 0.87 | | mg/L | 4.6 | 20 | 04-OCT-11 |
| WG1360034-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 102 | | % | | 75-125 | 04-OCT-11 |
| WG1360034-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.20 | | mg/L | | 0.2 | 04-OCT-11 |
| WG1360034-3 | MS | L1065092-1 | | | | | | |
| Total Kjeldahl Nitrogen | | | 104 | | % | | 70-130 | 04-OCT-11 |
| WG1360034-5 | MS | L1065114-1 | | | | | | |
| Total Kjeldahl Nitrogen | | | 106 | | % | | 70-130 | 04-OCT-11 |
| NH3-COL-WP | | Water | | | | | | |
| Batch | R2260877 | | | | | | | |
| WG1359404-3 | DUP | L1060061-1 | | | | | | |
| Ammonia as N | | 0.062 | 0.062 | | mg/L | 0.65 | 20 | 29-SEP-11 |
| WG1359404-5 | DUP | L1062339-1 | | | | | | |
| Ammonia as N | | 20.9 | 20.9 | DLA | mg/L | 0.12 | 20 | 29-SEP-11 |
| WG1359404-7 | DUP | L1062578-4 | | | | | | |
| Ammonia as N | | 110 | 110 | DLA | mg/L | 0.13 | 20 | 29-SEP-11 |
| WG1359404-2 | LCS | | | | | | | |
| Ammonia as N | | | 105 | | % | | 85-115 | 29-SEP-11 |
| WG1359404-1 | MB | | | | | | | |
| Ammonia as N | | | <0.050 | | mg/L | | 0.05 | 29-SEP-11 |
| WG1359404-4 | MS | L1060058-2 | | | | | | |
| Ammonia as N | | | 104 | | % | | 75-125 | 29-SEP-11 |
| WG1359404-6 | MS | L1060062-5 | | | | | | |
| Ammonia as N | | | 95 | | % | | 75-125 | 29-SEP-11 |
| WG1359404-8 | MS | L1062345-3 | | | | | | |
| Ammonia as N | | | 106 | | % | | 75-125 | 29-SEP-11 |
| Batch | R2262851 | | | | | | | |
| WG1361524-11 | DUP | L1064532-1 | | | | | | |
| Ammonia as N | | 0.207 | 0.207 | | mg/L | 0.053 | 20 | 03-OCT-11 |
| WG1361524-13 | DUP | L1066645-3 | | | | | | |
| Ammonia as N | | 0.063 | 0.063 | | mg/L | 0.54 | 20 | 04-OCT-11 |
| WG1361524-3 | DUP | L1062167-2 | | | | | | |



Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|--------|-----------|----------|-------|---------|-----------|
| NO3-IC-WP | | | | | | | | |
| Water | | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-1 | MB | | | | | | | |
| Nitrate-N | | | <0.050 | | mg/L | | 0.05 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Nitrate-N | | | 108 | | % | | 75-125 | 19-SEP-11 |
| P-T-COL-WP | | | | | | | | |
| Water | | | | | | | | |
| Batch | R2254917 | | | | | | | |
| WG1352018-3 | DUP | L1060058-1 | | | | | | |
| Phosphorus (P)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 20 | 20-SEP-11 |
| WG1352018-5 | DUP | L1060062-3 | | | | | | |
| Phosphorus (P)-Total | | 0.036 | 0.018 | J | mg/L | 0.011 | 0.02 | 20-SEP-11 |
| WG1352018-2 | LCS | | | | | | | |
| Phosphorus (P)-Total | | | 94 | | % | | 80-120 | 20-SEP-11 |
| WG1352018-1 | MB | | | | | | | |
| Phosphorus (P)-Total | | | <0.010 | | mg/L | | 0.01 | 20-SEP-11 |
| WG1352018-6 | MS | L1060063-2 | | | | | | |
| Phosphorus (P)-Total | | | 91 | | % | | 70-130 | 20-SEP-11 |
| WG1352018-7 | MS | L1060065-1 | | | | | | |
| Phosphorus (P)-Total | | | 85 | | % | | 70-130 | 20-SEP-11 |
| WG1352018-8 | MS | L1060115-1 | | | | | | |
| Phosphorus (P)-Total | | | 91 | | % | | 70-130 | 20-SEP-11 |
| PH-WP | | | | | | | | |
| Water | | | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-4 | DUP | L1059370-11 | | | | | | |
| pH | | 6.40 | 6.29 | J | pH units | 0.11 | 0.2 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| pH | | 8.56 | 8.61 | J | pH units | 0.05 | 0.2 | 17-SEP-11 |
| WG1351525-2 | LCS | | | | | | | |
| pH | | | 7.41 | | pH units | | 7.3-7.5 | 17-SEP-11 |
| SIO2-L-COL-WP | | | | | | | | |
| Water | | | | | | | | |
| Batch | R2258513 | | | | | | | |
| WG1356848-6 | DUP | L1057743-1 | | | | | | |
| Silica, Reactive (as SiO2) | | 0.321 | 0.323 | | mg/L | 0.70 | 20 | 24-SEP-11 |
| WG1356848-7 | DUP | L1059181-1 | | | | | | |
| Silica, Reactive (as SiO2) | | 0.0841 | 0.0838 | | mg/L | 0.32 | 20 | 24-SEP-11 |
| WG1356848-8 | DUP | L1060061-2 | | | | | | |
| Silica, Reactive (as SiO2) | | 4.04 | 4.49 | | mg/L | 11 | 20 | 24-SEP-11 |
| WG1356848-9 | DUP | L1060065-3 | | | | | | |



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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| SIO2-L-COL-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2258513 | | | | | | | |
| WG1356848-9 | DUP | L1060065-3 | | | | | | |
| Silica, Reactive (as SiO2) | | 2.66 | 2.57 | | mg/L | 3.6 | 20 | 24-SEP-11 |
| WG1356848-2 | LCS | | | | | | | |
| Silica, Reactive (as SiO2) | | | 100 | | % | | 85-115 | 24-SEP-11 |
| WG1356848-1 | MB | | | | | | | |
| Silica, Reactive (as SiO2) | | | <0.0050 | | mg/L | | 0.005 | 24-SEP-11 |
| WG1356848-3 | MS | L1060058-1 | | | | | | |
| Silica, Reactive (as SiO2) | | | 103 | | % | | 75-125 | 24-SEP-11 |
| WG1356848-4 | MS | L1060060-3 | | | | | | |
| Silica, Reactive (as SiO2) | | | 97 | | % | | 75-125 | 24-SEP-11 |
| WG1356848-5 | MS | L1060063-7 | | | | | | |
| Silica, Reactive (as SiO2) | | | 113 | | % | | 75-125 | 24-SEP-11 |
| Batch | R2260561 | | | | | | | |
| WG1358086-4 | DUP | L1059348-1 | | | | | | |
| Silica, Reactive (as SiO2) | | 1.54 | 1.52 | | mg/L | 1.4 | 20 | 28-SEP-11 |
| WG1358086-2 | LCS | | | | | | | |
| Silica, Reactive (as SiO2) | | | 101 | | % | | 85-115 | 28-SEP-11 |
| WG1358086-1 | MB | | | | | | | |
| Silica, Reactive (as SiO2) | | | <0.0050 | | mg/L | | 0.005 | 28-SEP-11 |
| WG1358086-3 | MS | L1059348-16 | | | | | | |
| Silica, Reactive (as SiO2) | | | 98 | | % | | 75-125 | 28-SEP-11 |
| SO4-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Sulfate | | | 102 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Sulfate | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |
| SOLIDS-TDS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2259447 | | | | | | | |
| WG1356855-2 | CVS | | | | | | | |
| Total Dissolved Solids | | | 100 | | % | | 85-115 | 27-SEP-11 |
| WG1356855-3 | DUP | L1060736-1 | | | | | | |
| Total Dissolved Solids | | 3260 | 3330 | | mg/L | 2.4 | 20 | 27-SEP-11 |
| WG1356855-8 | DUP | L1063648-1 | | | | | | |
| Total Dissolved Solids | | 640 | 670 | | mg/L | 4.6 | 20 | 27-SEP-11 |
| WG1356855-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <5.0 | | mg/L | | 5 | 27-SEP-11 |



Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| SOLIDS-TDS-WP | | Water | | | | | | |
| Batch | R2260332 | | | | | | | |
| WG1357759-2 | CVS | | | | | | | |
| Total Dissolved Solids | | | 100 | | % | | 85-115 | 28-SEP-11 |
| WG1357759-3 | DUP | L1060941-1 | | | | | | |
| Total Dissolved Solids | | 190 | 212 | | mg/L | 11 | 20 | 28-SEP-11 |
| WG1357759-4 | DUP | L1061337-1 | | | | | | |
| Total Dissolved Solids | | 10.0 | 10.0 | | mg/L | 0.0 | 400 | 28-SEP-11 |
| WG1357759-5 | DUP | L1061337-2 | | | | | | |
| Total Dissolved Solids | | 18.0 | 16.0 | | mg/L | 12 | 400 | 28-SEP-11 |
| WG1357759-7 | DUP | L1064352-1 | | | | | | |
| Total Dissolved Solids | | 1480 | 1510 | | mg/L | 2.0 | 20 | 28-SEP-11 |
| WG1357759-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <5.0 | | mg/L | | 5 | 28-SEP-11 |
| SOLIDS-TOTSUS-WP | | Water | | | | | | |
| Batch | R2259447 | | | | | | | |
| WG1356855-2 | CVS | | | | | | | |
| Total Suspended Solids | | | 102 | | % | | 85-115 | 27-SEP-11 |
| WG1356855-3 | DUP | L1060736-1 | | | | | | |
| Total Suspended Solids | | 24.0 | 25.0 | | mg/L | 4.1 | 400 | 27-SEP-11 |
| WG1356855-5 | DUP | L1063117-1 | | | | | | |
| Total Suspended Solids | | 7.0 | 7.0 | | mg/L | 0.0 | 400 | 27-SEP-11 |
| WG1356855-6 | DUP | L1063120-1 | | | | | | |
| Total Suspended Solids | | 5.0 | 5.0 | | mg/L | 0.0 | 400 | 27-SEP-11 |
| WG1356855-8 | DUP | L1063648-1 | | | | | | |
| Total Suspended Solids | | 100 | 97.1 | | mg/L | 2.9 | 20 | 27-SEP-11 |
| WG1356855-1 | MB | | | | | | | |
| Total Suspended Solids | | | <5.0 | | mg/L | | 5 | 27-SEP-11 |
| Batch | R2260332 | | | | | | | |
| WG1357759-2 | CVS | | | | | | | |
| Total Suspended Solids | | | 96 | | % | | 85-115 | 28-SEP-11 |
| WG1357759-6 | DUP | L1063827-1 | | | | | | |
| Total Suspended Solids | | 90.0 | 85.0 | | mg/L | 5.7 | 20 | 28-SEP-11 |
| WG1357759-7 | DUP | L1064352-1 | | | | | | |
| Total Suspended Solids | | 330 | 320 | | mg/L | 3.1 | 20 | 28-SEP-11 |
| WG1357759-1 | MB | | | | | | | |
| Total Suspended Solids | | | <5.0 | | mg/L | | 5 | 28-SEP-11 |
| TURBIDITY-WP | Water | | | | | | | |



Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| TURBIDITY-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2254943 | | | | | | | |
| WG1352212-3 | DUP | L1059370-5 | | | | | | |
| Turbidity | | 0.63 | 0.63 | | NTU | 0.32 | 15 | 17-SEP-11 |
| WG1352212-4 | DUP | L1060062-7 | | | | | | |
| Turbidity | | 2.21 | 2.20 | | NTU | 0.45 | 15 | 17-SEP-11 |
| WG1352212-2 | LCS | | | | | | | |
| Turbidity | | | 98 | | % | | 85-115 | 17-SEP-11 |
| WG1352212-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 17-SEP-11 |

Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

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Contact: Clifton Samoiloff

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|--|
| DLA | Detection Limit Adjusted For required dilution |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Total Dissolved Solids | | | | | | | |
| | 1 | 15-SEP-11 14:40 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 2 | 15-SEP-11 16:12 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 3 | 16-SEP-11 10:10 | 27-SEP-11 09:51 | 7 | 11 | days | EHT |
| | 4 | 16-SEP-11 14:40 | 27-SEP-11 09:51 | 7 | 11 | days | EHT |
| | 5 | 16-SEP-11 13:10 | 27-SEP-11 09:51 | 7 | 11 | days | EHT |
| | 6 | 16-SEP-11 11:45 | 27-SEP-11 09:51 | 7 | 11 | days | EHT |
| | 7 | 16-SEP-11 13:15 | 28-SEP-11 10:40 | 7 | 12 | days | EHT |
| Total Suspended Solids | | | | | | | |
| | 1 | 15-SEP-11 14:40 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 2 | 15-SEP-11 16:12 | 27-SEP-11 09:51 | 7 | 12 | days | EHT |
| | 3 | 16-SEP-11 10:10 | 27-SEP-11 09:51 | 7 | 11 | days | EHT |
| | 4 | 16-SEP-11 14:40 | 27-SEP-11 09:51 | 7 | 11 | days | EHT |
| | 5 | 16-SEP-11 13:10 | 27-SEP-11 09:51 | 7 | 11 | days | EHT |
| | 6 | 16-SEP-11 11:45 | 27-SEP-11 09:51 | 7 | 11 | days | EHT |
| | 7 | 16-SEP-11 13:15 | 28-SEP-11 10:40 | 7 | 12 | days | EHT |
| pH | | | | | | | |
| | 1 | 15-SEP-11 14:40 | 17-SEP-11 10:39 | 0.25 | 44 | hours | EHTR-FM |
| | 2 | 15-SEP-11 16:12 | 17-SEP-11 10:39 | 0.25 | 42 | hours | EHTR-FM |
| | 3 | 16-SEP-11 10:10 | 17-SEP-11 10:39 | 0.25 | 24 | hours | EHTR-FM |
| | 4 | 16-SEP-11 14:40 | 17-SEP-11 10:39 | 0.25 | 20 | hours | EHTR-FM |
| | 5 | 16-SEP-11 13:10 | 17-SEP-11 10:39 | 0.25 | 22 | hours | EHTR-FM |
| | 6 | 16-SEP-11 11:45 | 17-SEP-11 10:39 | 0.25 | 23 | hours | EHTR-FM |
| | 7 | 16-SEP-11 13:15 | 17-SEP-11 10:39 | 0.25 | 21 | hours | EHTR-FM |
| Anions and Nutrients | | | | | | | |
| Bromide | | | | | | | |
| | 1 | 15-SEP-11 14:40 | 19-SEP-11 14:41 | 48 | 96 | hours | EHTL |
| | 2 | 15-SEP-11 16:12 | 19-SEP-11 14:41 | 48 | 95 | hours | EHTL |
| | 3 | 16-SEP-11 10:10 | 19-SEP-11 14:41 | 48 | 77 | hours | EHTL |
| | 4 | 16-SEP-11 14:40 | 19-SEP-11 14:41 | 48 | 72 | hours | EHT |
| | 5 | 16-SEP-11 13:10 | 19-SEP-11 14:41 | 48 | 73 | hours | EHT |
| | 6 | 16-SEP-11 11:45 | 19-SEP-11 14:41 | 48 | 75 | hours | EHT |
| | 7 | 16-SEP-11 13:15 | 19-SEP-11 14:41 | 48 | 73 | hours | EHT |
| Colour, True | | | | | | | |
| | 1 | 15-SEP-11 14:40 | 17-SEP-11 18:41 | 48 | 52 | hours | EHTL |
| | 2 | 15-SEP-11 16:12 | 17-SEP-11 18:41 | 48 | 50 | hours | EHTL |
| Nitrate as N | | | | | | | |
| | 1 | 15-SEP-11 14:40 | 19-SEP-11 14:41 | 48 | 96 | hours | EHTL |
| | 2 | 15-SEP-11 16:12 | 19-SEP-11 14:41 | 48 | 95 | hours | EHTL |
| | 3 | 16-SEP-11 10:10 | 19-SEP-11 14:41 | 48 | 77 | hours | EHTL |
| | 4 | 16-SEP-11 14:40 | 19-SEP-11 14:41 | 48 | 72 | hours | EHT |
| | 5 | 16-SEP-11 13:10 | 19-SEP-11 14:41 | 48 | 73 | hours | EHT |
| | 6 | 16-SEP-11 11:45 | 19-SEP-11 14:41 | 48 | 75 | hours | EHT |
| | 7 | 16-SEP-11 13:15 | 19-SEP-11 14:41 | 48 | 73 | hours | EHT |
| Nitrite as N | | | | | | | |
| | 1 | 15-SEP-11 14:40 | 19-SEP-11 14:41 | 48 | 96 | hours | EHTL |
| | 2 | 15-SEP-11 16:12 | 19-SEP-11 14:41 | 48 | 95 | hours | EHTL |
| | 3 | 16-SEP-11 10:10 | 19-SEP-11 14:41 | 48 | 77 | hours | EHTL |
| | 4 | 16-SEP-11 14:40 | 19-SEP-11 14:41 | 48 | 72 | hours | EHT |
| | 5 | 16-SEP-11 13:10 | 19-SEP-11 14:41 | 48 | 73 | hours | EHT |
| | 6 | 16-SEP-11 11:45 | 19-SEP-11 14:41 | 48 | 75 | hours | EHT |

Quality Control Report

Workorder: L1060063

Report Date: 07-OCT-11

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

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Anions and Nutrients | | | | | | | |
| Nitrite as N | 7 | 16-SEP-11 13:15 | 19-SEP-11 14:41 | 48 | 73 | hours | EHT |
| Phosphorus, Total | 1 | 15-SEP-11 14:40 | 19-SEP-11 17:44 | 48 | 99 | hours | EHTL |
| | 2 | 15-SEP-11 16:12 | 19-SEP-11 17:44 | 48 | 97 | hours | EHTL |
| | 3 | 16-SEP-11 10:10 | 19-SEP-11 17:44 | 48 | 80 | hours | EHTL |
| | 4 | 16-SEP-11 14:40 | 19-SEP-11 17:44 | 48 | 75 | hours | EHT |
| | 5 | 16-SEP-11 13:10 | 19-SEP-11 17:44 | 48 | 77 | hours | EHT |
| | 6 | 16-SEP-11 11:45 | 19-SEP-11 17:44 | 48 | 78 | hours | EHT |
| | 7 | 16-SEP-11 13:15 | 19-SEP-11 17:44 | 48 | 77 | hours | EHT |

Legend & Qualifier Definitions:

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

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1060063 were received on 17-SEP-11 10:30.

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.



COC #

Page of

L1020063

Report To
 Company: AECOM -W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone: _____ Fax: _____
 Same as Report? No
 Hardcopy of Invoice with Report? No
 Company: _____ Contact: _____ Address: _____ Phone: _____ Fax: _____
 Lab/Work Order # (lab use only): _____

Client / Project Information
 Job #: 60212435-300
 PO / AFE: _____ LSD: _____
 Quote #: Q24534
 ALS Contact: Christine Herrod
 Date (dd-mm-yy): _____
 Sampler: _____
 Time (hh:mm): _____

| Sample # | Sample Identification (This description will appear on the report) | Date (dd-mm-yy) | Time (hh:mm) | Sample Type | Analysis Request | | | | | | | Number of Containers | | |
|----------|---|-----------------|--------------|-------------|---------------------------|----------------------------|--------------------------------|--------------|------|-------------------|---------------------|----------------------|-------------------------|----------|
| | | | | | Chlorophylla / Pheophytin | Acidity, Colour, Turbidity | Anions, Br, silica, ph.ec, Alk | NH3, TKN, PT | CBOD | Solids (TSS, TDS) | Metals & Hg - Total | | Metals & Hg - Dissolved | TOC, DOC |
| 1 | STC03 | 15 SEP 11 | 1440 | water | X | X | X | X | X | X | X | X | X | 7 |
| 2 | STC02 | 15 SEP 11 | 1612 | water | X | X | X | X | X | X | X | X | X | 9 |
| 3 | STC01 | 16 SEP 11 | 1010 | ↓ | X | X | X | X | X | X | X | X | X | 7 |
| 4 | STC01 | ↓ | 1440 | ↓ | X | X | X | X | X | X | X | X | X | 7 |
| 5 | STC02 | ↓ | 1310 | ↓ | X | X | X | X | X | X | X | X | X | 7 |
| 6 | STC03 | ↓ | 1145 | ↓ | X | X | X | X | X | X | X | X | X | 7 |
| 7 | FLB02 | 16 SEP 11 | 141315 | ↓ | X | X | X | X | X | X | X | X | X | 7 |

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

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: *blb* Date (dd-mm-yy): 17 SEP 11 Time (hh:mm): 10:30 Temperature: 7.1 °C
 Received by: _____ Date: 17 SEP 11 Time: 10:30
 SHIPMENT RELEASE (client use) SHIPMENT RECEPTION (lab use only) SHIPMENT VERIFICATION (lab use only)

Observations: Yes / No? If Yes add SIF



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

Date Received: 17-SEP-11
Report Date: 07-OCT-11 14:23 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1060065
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-300
C of C Numbers:
Legal Site Desc:

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
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060065-1 ANB-10 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 09:57 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 4.41 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 3.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | <1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 1.1 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 11.4 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 10.0 | | 1.0 | mg/L | | 22-SEP-11 | R2256631 |
| Hardness (as CaCO3) | 77.3 | | 0.20 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 82.8 | | 0.30 | mg/L | | 27-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.028 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 2.53 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 80.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Total Kjeldahl Nitrogen | 0.66 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 11.3 | | 1.0 | mg/L | | 22-SEP-11 | R2256631 |
| Total Suspended Solids | 8.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Turbidity | 2.32 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0838 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Arsenic (As)-Total | 0.00287 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Barium (Ba)-Total | 0.0108 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Calcium (Ca)-Total | 19.5 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Copper (Cu)-Total | 0.00135 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Iron (Fe)-Total | 0.12 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lithium (Li)-Total | 0.0042 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Magnesium (Mg)-Total | 8.30 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Manganese (Mn)-Total | 0.0401 | | 0.00030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060065-1 ANB-10 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 09:57 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Potassium (K)-Total | 1.40 | | 0.020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Rubidium (Rb)-Total | 0.00142 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silicon (Si)-Total | 1.98 | | 0.050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Sodium (Na)-Total | 3.77 | | 0.030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Strontium (Sr)-Total | 0.0475 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Titanium (Ti)-Total | 0.00393 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Vanadium (V)-Total | 0.00055 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0022 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00228 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.00903 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 18.00 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00057 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0035 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 7.83 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00020 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | 0.00011 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 1.18 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00116 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 1.21 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 3.49 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0457 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060065-1 ANB-10 Sampled By: CLIENT on 16-SEP-11 @ 09:57 Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00042 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 11.5 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 1.89 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 76.9 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 93.8 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 151 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 8.26 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060065-2 ANB-09 Sampled By: CLIENT on 16-SEP-11 @ 10:49 Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 4.32 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 3.75 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | <1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 1.3 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 17.0 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 10.8 | | 1.0 | mg/L | | 23-SEP-11 | R2256631 |
| Hardness (as CaCO3) | 82.0 | | 0.20 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 82.0 | | 0.30 | mg/L | | 27-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.027 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 3.63 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 90.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Total Kjeldahl Nitrogen | 0.67 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 11.9 | | 1.0 | mg/L | | 22-SEP-11 | R2256631 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060065-2 ANB-09 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 10:49 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Turbidity | 2.83 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.150 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Arsenic (As)-Total | 0.00275 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Barium (Ba)-Total | 0.0123 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Calcium (Ca)-Total | 19.6 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Copper (Cu)-Total | 0.00134 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Iron (Fe)-Total | 0.19 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lead (Pb)-Total | 0.000130 | | 0.000090 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lithium (Li)-Total | 0.0048 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Magnesium (Mg)-Total | 8.02 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Manganese (Mn)-Total | 0.0386 | | 0.00030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Potassium (K)-Total | 1.33 | | 0.020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Rubidium (Rb)-Total | 0.00158 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silicon (Si)-Total | 2.63 | | 0.050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Sodium (Na)-Total | 3.66 | | 0.030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Strontium (Sr)-Total | 0.0476 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Titanium (Ti)-Total | 0.00671 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Vanadium (V)-Total | 0.00070 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0041 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00092 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0104 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 19.1 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060065-2 ANB-09 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 10:49 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00064 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0029 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 8.31 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00022 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | 0.00012 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 1.26 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00123 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 1.77 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 3.71 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0473 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00061 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.00020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 11.0 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 1.73 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 77.2 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 94.2 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 153 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 8.24 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060065-3 ANB-08 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 11:35 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 4.43 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060065-3 ANB-08 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 11:35 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 3.83 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | <1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 1.5 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 10.5 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 9.9 | | 1.0 | mg/L | | 23-SEP-11 | R2256631 |
| Hardness (as CaCO3) | 71.1 | | 0.20 | mg/L | | 26-SEP-11 | |
| Hardness (as CaCO3) | 81.6 | | 0.30 | mg/L | | 27-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.029 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 2.66 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 88.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Total Kjeldahl Nitrogen | 0.64 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 10.6 | | 1.0 | mg/L | | 23-SEP-11 | R2256631 |
| Total Suspended Solids | 6.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Turbidity | 2.08 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.137 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Arsenic (As)-Total | 0.00276 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Barium (Ba)-Total | 0.0110 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Calcium (Ca)-Total | 19.5 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Copper (Cu)-Total | 0.00103 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Iron (Fe)-Total | 0.21 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lead (Pb)-Total | 0.000103 | | 0.000090 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lithium (Li)-Total | 0.0034 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Magnesium (Mg)-Total | 8.01 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Manganese (Mn)-Total | 0.0381 | | 0.00030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Potassium (K)-Total | 1.27 | | 0.020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Rubidium (Rb)-Total | 0.00142 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silicon (Si)-Total | 2.10 | | 0.050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Sodium (Na)-Total | 3.51 | | 0.030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060065-3 ANB-08 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 11:35 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Strontium (Sr)-Total | 0.0464 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Titanium (Ti)-Total | 0.00423 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Vanadium (V)-Total | 0.00054 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zinc (Zn)-Total | 0.0068 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0030 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00200 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.00815 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 16.4 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00055 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0030 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 7.33 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00021 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | 0.00011 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 1.09 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00101 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 1.29 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 3.30 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0405 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00045 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060065-3 ANB-08 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 11:35 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 10.3 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 1.96 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 76.9 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 88.6 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | 1.44 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 154 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 8.32 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060065-4 ANB-07 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 12:19 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 4.48 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 5.03 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | <1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 1.3 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 13.5 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 10.8 | | 1.0 | mg/L | | 23-SEP-11 | R2257774 |
| Hardness (as CaCO3) | 83.3 | | 0.30 | mg/L | | 27-SEP-11 | |
| Hardness (as CaCO3) | 80.4 | | 0.20 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.030 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 3.04 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 92.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Total Kjeldahl Nitrogen | 0.62 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 11.4 | | 1.0 | mg/L | | 23-SEP-11 | R2257774 |
| Total Suspended Solids | 7.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Turbidity | 1.44 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0727 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Arsenic (As)-Total | 0.00279 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Barium (Ba)-Total | 0.0111 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060065-4 ANB-07 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 12:19 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Calcium (Ca)-Total | 19.9 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Copper (Cu)-Total | 0.00095 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Iron (Fe)-Total | 0.11 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lead (Pb)-Total | 0.000090 | | 0.000090 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lithium (Li)-Total | 0.0047 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Magnesium (Mg)-Total | 8.16 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Manganese (Mn)-Total | 0.0349 | | 0.00030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Potassium (K)-Total | 1.29 | | 0.020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Rubidium (Rb)-Total | 0.00143 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silicon (Si)-Total | 2.19 | | 0.050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Sodium (Na)-Total | 3.80 | | 0.030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Strontium (Sr)-Total | 0.0486 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Titanium (Ti)-Total | 0.00331 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Vanadium (V)-Total | 0.00055 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zinc (Zn)-Total | 0.0054 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0033 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00120 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.00958 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 18.9 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00062 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0031 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|----------|-----------|-----------|----------|
| L1060065-4 ANB-07 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 12:19 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Magnesium (Mg)-Dissolved | 8.10 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00023 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | 0.00011 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 1.26 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00118 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 1.50 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 3.68 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0467 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00044 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 10.3 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 1.60 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 77.0 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 87.8 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | 1.90 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 157 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 8.34 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060065-5 ANB-06 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 14:13 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 4.40 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 4.03 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | <1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060065-5 ANB-06 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 14:13 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 1.9 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 15.7 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 11.5 | | 1.0 | mg/L | | 23-SEP-11 | R2257774 |
| Hardness (as CaCO3) | 83.8 | | 0.30 | mg/L | | 27-SEP-11 | |
| Hardness (as CaCO3) | 83.7 | | 0.20 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.030 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 3.42 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 90.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Total Kjeldahl Nitrogen | 0.78 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 11.9 | | 1.0 | mg/L | | 23-SEP-11 | R2257774 |
| Total Suspended Solids | 7.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Turbidity | 4.56 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0468 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Arsenic (As)-Total | 0.00283 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Barium (Ba)-Total | 0.0116 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Calcium (Ca)-Total | 20.1 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Copper (Cu)-Total | 0.00120 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Iron (Fe)-Total | <0.10 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lithium (Li)-Total | 0.0040 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Magnesium (Mg)-Total | 8.17 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Manganese (Mn)-Total | 0.0378 | | 0.00030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Potassium (K)-Total | 1.32 | | 0.020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Rubidium (Rb)-Total | 0.00133 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silicon (Si)-Total | 2.05 | | 0.050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Sodium (Na)-Total | 3.78 | | 0.030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Strontium (Sr)-Total | 0.0499 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Titanium (Ti)-Total | 0.00210 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060065-5 ANB-06 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 14:13 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Vanadium (V)-Total | 0.00058 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0055 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00095 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0101 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 19.6 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00065 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0033 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 8.44 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00027 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | 0.00011 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 1.27 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00127 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 1.71 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 3.79 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0503 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00065 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 10.4 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 2.04 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 77.3 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO3) | 88.3 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO3) | 1.83 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060065-5 ANB-06 Sampled By: CLIENT on 16-SEP-11 @ 14:13 Matrix: WATER | | | | | | | |
| Alkalinity Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity Conductivity | 155 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH pH | 8.34 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |
| L1060065-6 ANB-04 Sampled By: CLIENT on 16-SEP-11 @ 14:29 Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride Chloride | 4.84 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate Sulfate | 7.83 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | <1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 2.2 | | 1.0 | mg/L | 17-SEP-11 | 22-SEP-11 | R2255920 |
| Colour, True | 25.3 | | 5.0 | CU | | 17-SEP-11 | R2253828 |
| Dissolved Organic Carbon | 12.2 | | 1.0 | mg/L | | 24-SEP-11 | R2257774 |
| Hardness (as CaCO3) | 92.4 | | 0.30 | mg/L | | 27-SEP-11 | |
| Hardness (as CaCO3) | 85.8 | | 0.20 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.030 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 1.65 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 112 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Total Kjeldahl Nitrogen | 0.78 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 12.3 | | 1.0 | mg/L | | 24-SEP-11 | R2257774 |
| Total Suspended Solids | 7.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Turbidity | 2.13 | | 0.10 | NTU | | 17-SEP-11 | R2254943 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0656 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Antimony (Sb)-Total | 0.00031 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Arsenic (As)-Total | 0.00274 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Barium (Ba)-Total | 0.0113 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Boron (B)-Total | 0.010 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Calcium (Ca)-Total | 22.4 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060065-6 ANB-04 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 14:29 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Copper (Cu)-Total | 0.00062 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Iron (Fe)-Total | <0.10 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lithium (Li)-Total | 0.0042 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Magnesium (Mg)-Total | 8.88 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Manganese (Mn)-Total | 0.0381 | | 0.00030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Potassium (K)-Total | 1.35 | | 0.020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Rubidium (Rb)-Total | 0.00151 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silicon (Si)-Total | 2.16 | | 0.050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Sodium (Na)-Total | 4.39 | | 0.030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Strontium (Sr)-Total | 0.0555 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Titanium (Ti)-Total | 0.00197 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Vanadium (V)-Total | 0.00051 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0131 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | 0.00030 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00112 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.00904 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | 0.010 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 20.3 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00050 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0041 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 8.54 | | 0.010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00126 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | 0.00011 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 1.25 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00122 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|----------|------------|---------|----------|-----------|-----------|----------|
| L1060065-6 ANB-04 | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 14:29 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.857 | | 0.050 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 4.24 | | 0.020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.0509 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00051 | | 0.00020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 17-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 10.7 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 2.99 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO ₃) | 80.9 | | 1.0 | mg/L | | 17-SEP-11 | R2253785 |
| Bicarbonate (HCO ₃) | 57.7 | | 2.0 | mg/L | | 17-SEP-11 | R2253785 |
| Carbonate (CO ₃) | 19.0 | | 0.60 | mg/L | | 17-SEP-11 | R2253785 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 17-SEP-11 | R2253785 |
| Conductivity | | | | | | | |
| Conductivity | 165 | | 0.40 | umhos/cm | | 17-SEP-11 | R2253785 |
| pH | | | | | | | |
| pH | 9.23 | | 0.10 | pH units | | 17-SEP-11 | R2253785 |

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

Reference Information

Qualifiers for Individual Samples Listed:

| Sample Number | Client ID | Qualifier | Description |
|---------------|-----------|-----------|---|
| L1060065-1 | ANB-10 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060065-2 | ANB-09 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060065-3 | ANB-08 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060065-4 | ANB-07 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060065-5 | ANB-06 | SFPL | Sample was Filtered and Preserved at the laboratory |
| L1060065-6 | ANB-04 | SFPL | Sample was Filtered and Preserved at the laboratory |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|--|---|
| ACY-L-8.3-PCT-WP | Water | Acidity | APHA 2310 B |
| Acidity is measured using auto-titration with sodium hydroxide to an endpoint of pH 8.3 | | | |
| ALK-TOT-WP | Water | Alkalinity | APHA 2320B |
| Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically. | | | |
| BR-IC-WP | Water | Bromide | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| C-DIS-ORG-WP | Water | Dissolved Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| C-TOT-ORG-WP | Water | Total Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| CHL,PHEO-FLUORO-WP | Water | Chlorophyll a, Pheophytin by fluorometry | EPA 445.0 |
| Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification. | | | |
| CL-IC-WP | Water | Chloride | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| COLOUR-TRUE-WP | Water | Colour, True | APHA 2120C |
| True colour in water is analyzed by discrete analyzer using the platinum-cobalt colourimetric method. Colour is pH dependant; unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit. | | | |
| CONSULT-BOD-CBOD-WP | Water | Carbonaceous BOD | APHA 5210 B-5 day Incub.-O ₂ electrode |
| A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis. | | | |

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---|--------|----------------------------|---------------------------------------|
| EC-WP | Water | Conductivity | APHA 2510B |
| Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes. | | | |
| ETL-HARDNESS-DIS-WP | Water | Hardness Calculated | HARDNESS CALCULATED |
| ETL-HARDNESS-TOT-WP | Water | Hardness Calculated | HARDNESS CALCULATED |
| F-IC-WP | Water | Fluoride | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| HG-D-CVAF-WP | Water | Mercury Dissolved | EPA245.7 V2.0 |
| Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry. | | | |
| HG-T-CVAF-WP | Water | Mercury Total | EPA245.7 V2.0 |
| Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry. | | | |
| MET-D-L-MS-WP | Water | Dissolved Metals by ICP-MS | U.S. EPA 200.8-DL |
| Dissolved Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the Examination of Water and Wastewater method 3030B for filtration through a 0.45 um filter and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry. | | | |
| MET-T-L-MS-WP | Water | Total Metals by ICP-MS | U.S. EPA 200.8-TL |
| Total Metals by ICP-MS: This analysis is carried out using sample preparation procedures adapted from Standard Methods for the examination of Water and Wastewater Method 3030E and analytical procedures adapted from U.S EPA Method 200.8 for analysis of metals by inductively coupled-mass spectrometry. | | | |
| N-TOTKJ-WP | Water | Total Kjeldahl Nitrogen | Quickchem method 10-107-06-2-E Lachat |
| Samples are digested with a sulphuric acid solution, cooled, diluted with water, and analyzed for ammonia. Total Kjeldahl nitrogen is the sum of free-ammonia and organic nitrogen compounds which are converted to ammonium sulphate through this digestion process. Analysis is performed by Flow Injection Analysis (FIA). The pH of the digested sample is raised to a known, basic pH by neutralization with a concentrated buffer solution. This neutralization converts the ammonium cation to ammonia. The ammonia produced is heated with salicylate and hypochlorite to produce blue colour which is proportional to the ammonia concentration. | | | |
| NH3-COL-WP | Water | Ammonia by colour | APHA 4500 NH3 F |
| Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically. | | | |
| NO2+NO3-CALC-WP | Water | Nitrate+Nitrite | CALCULATION |
| NO2-IC-WP | Water | Nitrite as N | EPA 300.1 IC |
| NO3-IC-WP | Water | Nitrate as N | EPA 300.1 IC |
| P-T-COL-WP | Water | Phosphorus, Total | APHA 4500 P PHOSPHORUS |
| This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample. | | | |
| PH-WP | Water | pH | APHA 4500H |
| The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode. | | | |
| SIO2-L-COL-WP | Water | Reactive Silica by colour | APHA 4500 SIO2 |
| This analysis is carried out using procedures adapted from APHA Method 4500-SiO2 "Silica". Molybdate Reactive Silica is determined by analysis of the sample using the heteropoly blue colourimetric method. | | | |
| SO4-IC-WP | Water | Sulfate | EPA 300.1 IC |

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|------------------------|-----------------------|
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| SOLIDS-TDS-WP | Water | Total Dissolved Solids | APHA 2540C |
| The residue remaining in a prepared casserole after passing the sample through a 1.2 um Whatman GF/C glass microfibre filter and drying at 180 degrees C. Samples may be dried at 105 degrees C if the client specifically requests this drying temperature. | | | |
| SOLIDS-TOTSUS-WP | Water | Total Suspended Solids | APHA 2540D |
| The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C. | | | |
| TURBIDITY-WP | Water | Turbidity | APHA 2130B (modified) |
| Turbidity in aqueous matrices is determined by the nephelometric method. | | | |

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|-----------------|--------------------|--------|-----------|-------|------|--------|-----------|
| ACY-L-8.3-PCT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256906 | | | | | | | |
| WG1355010-3 | DUP | L1060044-1 | | | | | | |
| Acidity (as CaCO3) | | 2.8 | 2.7 | | mg/L | 6.0 | 25 | 21-SEP-11 |
| WG1355010-4 | DUP | L1060061-1 | | | | | | |
| Acidity (as CaCO3) | | 1.8 | 1.8 | | mg/L | 0.13 | 25 | 21-SEP-11 |
| WG1355010-5 | DUP | L1060062-5 | | | | | | |
| Acidity (as CaCO3) | | 1.0 | 1.1 | | mg/L | 4.0 | 25 | 21-SEP-11 |
| WG1355010-6 | DUP | L1060063-7 | | | | | | |
| Acidity (as CaCO3) | | 1.5 | 1.5 | | mg/L | 2.4 | 25 | 21-SEP-11 |
| WG1355010-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 106 | | % | | 70-130 | 21-SEP-11 |
| WG1355010-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | <1.0 | | mg/L | | 1 | 21-SEP-11 |
| ALK-TOT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-3 | CVS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 103 | | % | | 85-115 | 17-SEP-11 |
| WG1351525-4 | DUP | L1059370-11 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 5.1 | 5.9 | | mg/L | 14 | 20 | 17-SEP-11 |
| Bicarbonate (HCO3) | | 6.3 | 7.2 | | mg/L | 14 | 25 | 17-SEP-11 |
| Carbonate (CO3) | | <0.60 | <0.60 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| Hydroxide (OH) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 246 | 247 | | mg/L | 0.25 | 20 | 17-SEP-11 |
| Bicarbonate (HCO3) | | 274 | 270 | | mg/L | 1.3 | 25 | 17-SEP-11 |
| Carbonate (CO3) | | 9.36 | 11.5 | | mg/L | 20 | 25 | 17-SEP-11 |
| Hydroxide (OH) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 25 | 17-SEP-11 |
| BR-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Bromide (Br) | | | 96 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Bromide (Br) | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| C-DIS-ORG-WP | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|-------------------|--------|-----------|-------|-------|--------|-----------|
| C-DIS-ORG-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256631 | | | | | | | |
| WG1354641-2 | CVS | | | | | | | |
| Dissolved Organic Carbon | | | 102 | | % | | 80-120 | 22-SEP-11 |
| WG1354639-2 | DUP | L1060063-1 | | | | | | |
| Dissolved Organic Carbon | | 30.9 | 30.9 | | mg/L | 0.12 | 20 | 22-SEP-11 |
| WG1354639-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <1.0 | | mg/L | | 1 | 22-SEP-11 |
| Batch | R2257774 | | | | | | | |
| WG1355953-2 | CVS | | | | | | | |
| Dissolved Organic Carbon | | | 99 | | % | | 80-120 | 23-SEP-11 |
| WG1355939-2 | DUP | L1060065-5 | | | | | | |
| Dissolved Organic Carbon | | 11.5 | 11.5 | | mg/L | 0.027 | 20 | 23-SEP-11 |
| WG1355939-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <1.0 | | mg/L | | 1 | 23-SEP-11 |
| C-TOT-ORG-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256631 | | | | | | | |
| WG1354641-2 | CVS | | | | | | | |
| Total Organic Carbon | | | 101 | | % | | 80-120 | 22-SEP-11 |
| WG1354641-1 | MB | | | | | | | |
| Total Organic Carbon | | | <1.0 | | mg/L | | 1 | 22-SEP-11 |
| Batch | R2257774 | | | | | | | |
| WG1355953-2 | CVS | | | | | | | |
| Total Organic Carbon | | | 100 | | % | | 80-120 | 23-SEP-11 |
| WG1355953-1 | MB | | | | | | | |
| Total Organic Carbon | | | <1.0 | | mg/L | | 1 | 23-SEP-11 |
| CHL,PHEO-FLUORO-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256774 | | | | | | | |
| WG1354255-1 | CVS | | | | | | | |
| Chlorophyll a | | | 82 | | % | | 65-135 | 23-SEP-11 |
| WG1354255-2 | CVS | | | | | | | |
| Chlorophyll a | | | 112 | | % | | 65-135 | 23-SEP-11 |
| WG1354200-2 | DUP | L1060065-1 | | | | | | |
| Chlorophyll a | | 11.5 | 10.6 | | ug/L | 8.0 | 35 | 23-SEP-11 |
| Phaeophytin a | | 1.89 | 2.29 | | ug/L | 19 | 35 | 23-SEP-11 |
| WG1354200-3 | DUP | L1060067-1 | | | | | | |
| Chlorophyll a | | 2.84 | 2.88 | | ug/L | 1.4 | 35 | 23-SEP-11 |
| Phaeophytin a | | 1.88 | 1.95 | | ug/L | 3.7 | 35 | 23-SEP-11 |
| WG1354200-1 | MB | | | | | | | |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------------|--------|------------|--------|-----------|-------|------|--------|-----------|
| CHL,PHEO-FLUORO-WP Water | | | | | | | | |
| Batch R2256774 | | | | | | | | |
| WG1354200-1 | MB | | | | | | | |
| Chlorophyll a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| Phaeophytin a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| CL-IC-WP Water | | | | | | | | |
| Batch R2255553 | | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Chloride | | 1.58 | 1.58 | | mg/L | 0.22 | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Chloride | | | 100 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Chloride | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Chloride | | | 107 | | % | | 75-125 | 19-SEP-11 |
| COLOUR-TRUE-WP Water | | | | | | | | |
| Batch R2253828 | | | | | | | | |
| WG1351569-3 | DUP | L1059499-2 | | | | | | |
| Colour, True | | 23.3 | 24.9 | | CU | 6.6 | 400 | 17-SEP-11 |
| WG1351569-4 | DUP | L1060060-2 | | | | | | |
| Colour, True | | 27.5 | 32.7 | | CU | 17 | 20 | 17-SEP-11 |
| WG1351569-2 | LCS | | | | | | | |
| Colour, True | | | 100 | | % | | 85-115 | 17-SEP-11 |
| WG1351569-1 | MB | | | | | | | |
| Colour, True | | | <5.0 | | CU | | 5 | 17-SEP-11 |
| CONSULT-BOD-CBOD-WP Water | | | | | | | | |
| Batch R2255920 | | | | | | | | |
| WG1351515-3 | DUP | L1060060-2 | | | | | | |
| WG1351515-4 | DUP | L1060062-7 | | | | | | |
| BOD Carbonaceous | | 2.0 | 2.1 | | mg/L | 4.9 | 400 | 22-SEP-11 |
| WG1351515-5 | DUP | L1060065-2 | | | | | | |
| BOD Carbonaceous | | 1.3 | 1.4 | | mg/L | 7.4 | 400 | 22-SEP-11 |
| WG1351515-2 | IRM | 61-GG | | | | | | |
| BOD Carbonaceous | | | 93 | | % | | 85-115 | 22-SEP-11 |
| WG1351515-1 | MB | | | | | | | |
| BOD Carbonaceous | | | <1.0 | | mg/L | | 1 | 22-SEP-11 |
| EC-WP Water | | | | | | | | |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|-----------|-----------|----------|------|---------|-----------|
| EC-WP | | Water | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-1 | CVS | | | | | | | |
| Conductivity | | | 96 | | % | | 90-110 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| Conductivity | | 799 | 798 | | umhos/cm | 0.15 | 10 | 17-SEP-11 |
| F-IC-WP | | Water | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Fluoride | | | 101 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Fluoride | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| HG-D-CVAF-WP | | Water | | | | | | |
| Batch | R2264510 | | | | | | | |
| WG1363399-5 | DUP | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| WG1363399-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |
| WG1363399-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| WG1363406-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| WG1363399-6 | MS | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |
| HG-T-CVAF-WP | | Water | | | | | | |
| Batch | R2263097 | | | | | | | |
| WG1361800-3 | DUP | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | <0.000050 | <0.000050 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-5 | DUP | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | <0.000050 | 0.000070 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-2 | LCS | | | | | | | |
| Mercury (Hg)-Total | | | 100 | | % | | 80-120 | 30-SEP-11 |
| WG1361800-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.000050 | | mg/L | | 0.00005 | 30-SEP-11 |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|--------|-----------|-------|------|--------|-----------|
| HG-T-CVAF-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2263097 | | | | | | | |
| WG1361800-4 MS | | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | | 93 | | % | | 70-130 | 30-SEP-11 |
| WG1361800-6 MS | | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | | 85 | | % | | 70-130 | 30-SEP-11 |
| MET-D-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 DUP | | WG1356177-3 | | | | | | |
| Aluminum (Al)-Dissolved | | 2.03 | 1.99 | | mg/L | 1.8 | 20 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | 1.02 | 1.01 | | mg/L | 1.2 | 20 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | 1.00 | 1.01 | | mg/L | 0.34 | 20 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | 0.256 | 0.252 | | mg/L | 1.3 | 20 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | 0.105 | 0.101 | | mg/L | 3.4 | 20 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | 1.02 | 1.03 | | mg/L | 0.20 | 20 | 23-SEP-11 |
| Boron (B)-Dissolved | | 1.03 | 1.00 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | 0.103 | 0.106 | | mg/L | 2.7 | 20 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | 50.2 | 50.5 | | mg/L | 0.69 | 20 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | 0.0493 | 0.0489 | | mg/L | 0.70 | 20 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | 0.249 | 0.251 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | 0.257 | 0.256 | | mg/L | 0.20 | 20 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | 0.250 | 0.252 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | 1.00 | 1.01 | | mg/L | 0.49 | 20 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | 0.514 | 0.503 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | 0.263 | 0.254 | | mg/L | 3.7 | 20 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | 50.5 | 50.9 | | mg/L | 0.73 | 20 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | 0.247 | 0.252 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | 0.255 | 0.261 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | 0.513 | 0.520 | | mg/L | 1.4 | 20 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | 2.61 | 2.67 | | mg/L | 2.4 | 20 | 23-SEP-11 |
| Potassium (K)-Dissolved | | 51.8 | 50.9 | | mg/L | 1.8 | 20 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | 0.101 | 0.103 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | 1.01 | 1.01 | | mg/L | 0.29 | 20 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | 1.01 | 1.00 | | mg/L | 0.38 | 20 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | 0.108 | 0.113 | | mg/L | 4.5 | 20 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | 51.4 | 51.9 | | mg/L | 1.1 | 20 | 23-SEP-11 |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 | DUP | WG1356177-3 | | | | | | |
| Strontium (Sr)-Dissolved | | 0.254 | 0.262 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | 0.103 | 0.105 | | mg/L | 1.9 | 20 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | 1.04 | 1.03 | | mg/L | 1.3 | 20 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | 0.0988 | 0.101 | | mg/L | 2.2 | 25 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | 0.523 | 0.540 | | mg/L | 3.1 | 20 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | 0.252 | 0.258 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | 0.101 | 0.0999 | | mg/L | 1.0 | 20 | 23-SEP-11 |
| Uranium (U)-Dissolved | | 0.00518 | 0.00498 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | 0.511 | 0.519 | | mg/L | 1.6 | 20 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | 0.510 | 0.516 | | mg/L | 1.2 | 20 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | 0.0994 | 0.103 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| WG1356177-2 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Boron (B)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-2 LCS | | | | | | | | |
| Potassium (K)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | 108 | | % | | 80-120 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Uranium (U)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| WG1356177-1 MB | | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Boron (B)-Dissolved | | | <0.010 | | mg/L | | 0.03 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | <0.000010 | | mg/L | | 0.0002 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | | <0.050 | | mg/L | | 0.2 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | <0.0020 | | mg/L | | 0.002 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | <0.10 | | mg/L | | 0.1 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | <0.000090 | | mg/L | | 0.001 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | <0.0020 | | mg/L | | 0.01 | 23-SEP-11 |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|

MET-D-L-MS-WP **Water**

Batch **R2257942**

WG1356177-1 MB

| | | | | | | | | |
|---------------------------|--|--|----------|--|------|--|--------|-----------|
| Magnesium (Mg)-Dissolved | | | <0.010 | | mg/L | | 0.05 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | <0.0010 | | mg/L | | 0.002 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | <0.10 | | mg/L | | 0.5 | 23-SEP-11 |
| Potassium (K)-Dissolved | | | <0.020 | | mg/L | | 0.1 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | <0.0010 | | mg/L | | 0.005 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | <0.050 | | mg/L | | 0.3 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | | <0.020 | | mg/L | | 0.05 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | | <0.00010 | | mg/L | | 0.005 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | | <0.00020 | | mg/L | | 0.0006 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Uranium (U)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | | <0.00040 | | mg/L | | 0.001 | 23-SEP-11 |

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

Batch **R2258458**

WG1356012-4 DUP

WG1356012-3

| | | | | | | | |
|----------------------|-----------|-----------|--------|------|-----|-----|-----------|
| Aluminum (Al)-Total | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Antimony (Sb)-Total | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Arsenic (As)-Total | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Barium (Ba)-Total | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Beryllium (Be)-Total | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Bismuth (Bi)-Total | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Boron (B)-Total | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Cadmium (Cd)-Total | <0.000010 | <0.000010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|-----------|-----------|-------|-----|-------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2258458 | | | | | | | |
| WG1356012-4 DUP | | WG1356012-3 | | | | | | |
| Calcium (Ca)-Total | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Cesium (Cs)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Chromium (Cr)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Cobalt (Co)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Copper (Cu)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Iron (Fe)-Total | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Lead (Pb)-Total | | <0.000090 | <0.000090 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Lithium (Li)-Total | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Magnesium (Mg)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Manganese (Mn)-Total | | <0.00030 | <0.00030 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Molybdenum (Mo)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Nickel (Ni)-Total | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Phosphorus (P)-Total | | <0.20 | <0.20 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Potassium (K)-Total | | <0.020 | <0.020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Rubidium (Rb)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Selenium (Se)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Silicon (Si)-Total | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Silver (Ag)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Sodium (Na)-Total | | <0.030 | <0.030 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Strontium (Sr)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Tellurium (Te)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Thallium (Tl)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Thorium (Th)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 25 | 26-SEP-11 |
| Tin (Sn)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Titanium (Ti)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Tungsten (W)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Uranium (U)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Vanadium (V)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Zinc (Zn)-Total | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Zirconium (Zr)-Total | | <0.00040 | <0.00040 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| WG1356012-6 DUP | | WG1356012-5 | | | | | | |
| Aluminum (Al)-Total | | 0.0800 | 0.0700 | | mg/L | 13 | 20 | 26-SEP-11 |
| Antimony (Sb)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|-----------|-----------|-------|------|-------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2258458 | | | | | | | |
| WG1356012-6 | DUP | WG1356012-5 | | | | | | |
| Arsenic (As)-Total | | 0.00287 | 0.00279 | | mg/L | 2.8 | 20 | 26-SEP-11 |
| Barium (Ba)-Total | | 0.0108 | 0.0108 | | mg/L | 0.27 | 20 | 26-SEP-11 |
| Beryllium (Be)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Bismuth (Bi)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Boron (B)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Cadmium (Cd)-Total | | <0.000010 | <0.000010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Calcium (Ca)-Total | | 19.5 | 19.0 | | mg/L | 2.4 | 20 | 26-SEP-11 |
| Cesium (Cs)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Chromium (Cr)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Cobalt (Co)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Copper (Cu)-Total | | 0.00135 | 0.00126 | | mg/L | 6.6 | 20 | 26-SEP-11 |
| Iron (Fe)-Total | | 0.12 | 0.12 | | mg/L | 5.5 | 400 | 26-SEP-11 |
| Lead (Pb)-Total | | <0.000090 | <0.000090 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Lithium (Li)-Total | | 0.0042 | 0.0040 | | mg/L | 6.1 | 400 | 26-SEP-11 |
| Magnesium (Mg)-Total | | 8.30 | 8.20 | | mg/L | 1.2 | 20 | 26-SEP-11 |
| Manganese (Mn)-Total | | 0.0401 | 0.0397 | | mg/L | 0.96 | 20 | 26-SEP-11 |
| Molybdenum (Mo)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Nickel (Ni)-Total | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Phosphorus (P)-Total | | <0.20 | <0.20 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Potassium (K)-Total | | 1.40 | 1.31 | | mg/L | 6.7 | 20 | 26-SEP-11 |
| Rubidium (Rb)-Total | | 0.00142 | 0.00138 | | mg/L | 2.4 | 20 | 26-SEP-11 |
| Selenium (Se)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Silicon (Si)-Total | | 1.98 | 2.15 | | mg/L | 8.3 | 20 | 26-SEP-11 |
| Silver (Ag)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Sodium (Na)-Total | | 3.77 | 3.74 | | mg/L | 0.94 | 20 | 26-SEP-11 |
| Strontium (Sr)-Total | | 0.0475 | 0.0465 | | mg/L | 2.2 | 20 | 26-SEP-11 |
| Tellurium (Te)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Thallium (Tl)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Thorium (Th)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 25 | 26-SEP-11 |
| Tin (Sn)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Tungsten (W)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Uranium (U)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Vanadium (V)-Total | | 0.00055 | 0.00050 | | mg/L | | | 26-SEP-11 |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|----------|-----------|-------|-----|--------|-----------|
| MET-T-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2258458 | | | | | | | |
| WG1356012-6 | DUP | WG1356012-5 | | | | | | |
| Vanadium (V)-Total | | 0.00055 | 0.00050 | | mg/L | 9.0 | 400 | 26-SEP-11 |
| Zinc (Zn)-Total | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Zirconium (Zr)-Total | | <0.00040 | <0.00040 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| WG1356012-2 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 98 | | % | | 80-120 | 26-SEP-11 |
| Antimony (Sb)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |
| Arsenic (As)-Total | | | 97 | | % | | 80-120 | 26-SEP-11 |
| Barium (Ba)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |
| Beryllium (Be)-Total | | | 102 | | % | | 80-120 | 26-SEP-11 |
| Bismuth (Bi)-Total | | | 97 | | % | | 80-120 | 26-SEP-11 |
| Boron (B)-Total | | | 105 | | % | | 80-120 | 26-SEP-11 |
| Cadmium (Cd)-Total | | | 100 | | % | | 80-120 | 26-SEP-11 |
| Calcium (Ca)-Total | | | 107 | | % | | 80-120 | 26-SEP-11 |
| Cesium (Cs)-Total | | | 93 | | % | | 80-120 | 26-SEP-11 |
| Chromium (Cr)-Total | | | 102 | | % | | 80-120 | 26-SEP-11 |
| Cobalt (Co)-Total | | | 97 | | % | | 80-120 | 26-SEP-11 |
| Copper (Cu)-Total | | | 97 | | % | | 80-120 | 26-SEP-11 |
| Iron (Fe)-Total | | | 99 | | % | | 80-120 | 26-SEP-11 |
| Lead (Pb)-Total | | | 99 | | % | | 80-120 | 26-SEP-11 |
| Lithium (Li)-Total | | | 112 | | % | | 80-120 | 26-SEP-11 |
| Magnesium (Mg)-Total | | | 106 | | % | | 80-120 | 26-SEP-11 |
| Manganese (Mn)-Total | | | 98 | | % | | 80-120 | 26-SEP-11 |
| Molybdenum (Mo)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |
| Nickel (Ni)-Total | | | 102 | | % | | 80-120 | 26-SEP-11 |
| Phosphorus (P)-Total | | | 99 | | % | | 80-120 | 26-SEP-11 |
| Potassium (K)-Total | | | 110 | | % | | 80-120 | 26-SEP-11 |
| Rubidium (Rb)-Total | | | 107 | | % | | 80-120 | 26-SEP-11 |
| Selenium (Se)-Total | | | 94 | | % | | 80-120 | 26-SEP-11 |
| Silicon (Si)-Total | | | 113 | | % | | 80-120 | 26-SEP-11 |
| Silver (Ag)-Total | | | 108 | | % | | 80-120 | 26-SEP-11 |
| Sodium (Na)-Total | | | 113 | | % | | 80-120 | 26-SEP-11 |
| Strontium (Sr)-Total | | | 104 | | % | | 80-120 | 26-SEP-11 |
| Tellurium (Te)-Total | | | 99 | | % | | 80-120 | 26-SEP-11 |
| Thallium (Tl)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2258458 | | | | | | | |
| WG1356012-2 | LCS | | | | | | | |
| Thallium (Tl)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |
| Thorium (Th)-Total | | | 95 | | % | | 70-130 | 26-SEP-11 |
| Tin (Sn)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |
| Titanium (Ti)-Total | | | 109 | | % | | 80-120 | 26-SEP-11 |
| Tungsten (W)-Total | | | 97 | | % | | 80-120 | 26-SEP-11 |
| Uranium (U)-Total | | | 94 | | % | | 80-120 | 26-SEP-11 |
| Vanadium (V)-Total | | | 105 | | % | | 80-120 | 26-SEP-11 |
| Zinc (Zn)-Total | | | 99 | | % | | 80-120 | 26-SEP-11 |
| Zirconium (Zr)-Total | | | 103 | | % | | 80-120 | 26-SEP-11 |
| WG1356012-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | <0.0050 | | mg/L | | 0.02 | 26-SEP-11 |
| Antimony (Sb)-Total | | | <0.00020 | | mg/L | | 0.001 | 26-SEP-11 |
| Arsenic (As)-Total | | | <0.00020 | | mg/L | | 0.001 | 26-SEP-11 |
| Barium (Ba)-Total | | | <0.00020 | | mg/L | | 0.0005 | 26-SEP-11 |
| Beryllium (Be)-Total | | | <0.00020 | | mg/L | | 0.001 | 26-SEP-11 |
| Bismuth (Bi)-Total | | | <0.00020 | | mg/L | | 0.0005 | 26-SEP-11 |
| Boron (B)-Total | | | <0.010 | | mg/L | | 0.03 | 26-SEP-11 |
| Cadmium (Cd)-Total | | | <0.000010 | | mg/L | | 0.0002 | 26-SEP-11 |
| Calcium (Ca)-Total | | | <0.10 | | mg/L | | 0.2 | 26-SEP-11 |
| Cesium (Cs)-Total | | | <0.00010 | | mg/L | | 0.0005 | 26-SEP-11 |
| Chromium (Cr)-Total | | | <0.0010 | | mg/L | | 0.002 | 26-SEP-11 |
| Cobalt (Co)-Total | | | <0.00020 | | mg/L | | 0.0005 | 26-SEP-11 |
| Copper (Cu)-Total | | | <0.00020 | | mg/L | | 0.002 | 26-SEP-11 |
| Iron (Fe)-Total | | | <0.10 | | mg/L | | 0.1 | 26-SEP-11 |
| Lead (Pb)-Total | | | <0.000090 | | mg/L | | 0.001 | 26-SEP-11 |
| Lithium (Li)-Total | | | <0.0020 | | mg/L | | 0.002 | 26-SEP-11 |
| Magnesium (Mg)-Total | | | <0.010 | | mg/L | | 0.05 | 26-SEP-11 |
| Manganese (Mn)-Total | | | <0.00030 | | mg/L | | 0.001 | 26-SEP-11 |
| Molybdenum (Mo)-Total | | | <0.00020 | | mg/L | | 0.0005 | 26-SEP-11 |
| Nickel (Ni)-Total | | | <0.0020 | | mg/L | | 0.002 | 26-SEP-11 |
| Phosphorus (P)-Total | | | <0.20 | | mg/L | | 0.5 | 26-SEP-11 |
| Potassium (K)-Total | | | <0.020 | | mg/L | | 0.1 | 26-SEP-11 |
| Rubidium (Rb)-Total | | | <0.00020 | | mg/L | | 0.0005 | 26-SEP-11 |
| Selenium (Se)-Total | | | <0.0010 | | mg/L | | 0.005 | 26-SEP-11 |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|--------|-------------------|----------|-----------|-------|------|--------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch R2258458 | | | | | | | | |
| WG1356012-1 MB | | | | | | | | |
| Silicon (Si)-Total | | | <0.050 | | mg/L | | 0.3 | 26-SEP-11 |
| Silver (Ag)-Total | | | <0.00010 | | mg/L | | 0.001 | 26-SEP-11 |
| Sodium (Na)-Total | | | <0.030 | | mg/L | | 0.05 | 26-SEP-11 |
| Strontium (Sr)-Total | | | <0.00010 | | mg/L | | 0.0005 | 26-SEP-11 |
| Tellurium (Te)-Total | | | <0.00020 | | mg/L | | 0.001 | 26-SEP-11 |
| Thallium (Tl)-Total | | | <0.00010 | | mg/L | | 0.005 | 26-SEP-11 |
| Thorium (Th)-Total | | | <0.00010 | | mg/L | | 0.0001 | 26-SEP-11 |
| Tin (Sn)-Total | | | <0.00020 | | mg/L | | 0.0006 | 26-SEP-11 |
| Titanium (Ti)-Total | | | <0.00020 | | mg/L | | 0.001 | 26-SEP-11 |
| Tungsten (W)-Total | | | <0.0010 | | mg/L | | 0.002 | 26-SEP-11 |
| Uranium (U)-Total | | | <0.00010 | | mg/L | | 0.0005 | 26-SEP-11 |
| Vanadium (V)-Total | | | <0.00020 | | mg/L | | 0.002 | 26-SEP-11 |
| Zinc (Zn)-Total | | | <0.0050 | | mg/L | | 0.02 | 26-SEP-11 |
| Zirconium (Zr)-Total | | | <0.00040 | | mg/L | | 0.001 | 26-SEP-11 |
| N-TOTKJ-WP | | Water | | | | | | |
| Batch R2255224 | | | | | | | | |
| WG1353102-1 CVS | | | | | | | | |
| Total Kjeldahl Nitrogen | | | 95 | | % | | 90-110 | 21-SEP-11 |
| WG1352408-4 DUP | | L1060071-2 | | | | | | |
| Total Kjeldahl Nitrogen | | 1.61 | 1.68 | | mg/L | 4.1 | 20 | 21-SEP-11 |
| WG1352408-6 DUP | | L1060073-3 | | | | | | |
| Total Kjeldahl Nitrogen | | 1.31 | 1.26 | | mg/L | 3.9 | 20 | 21-SEP-11 |
| WG1352408-2 LCS | | | | | | | | |
| Total Kjeldahl Nitrogen | | | 105 | | % | | 75-125 | 21-SEP-11 |
| WG1352408-1 MB | | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.20 | | mg/L | | 0.2 | 21-SEP-11 |
| WG1352408-3 MS | | L1060071-2 | | | | | | |
| Total Kjeldahl Nitrogen | | | N/A | MS-B | % | | - | 21-SEP-11 |
| WG1352408-5 MS | | L1060073-3 | | | | | | |
| Total Kjeldahl Nitrogen | | | N/A | MS-B | % | | - | 21-SEP-11 |
| NH3-COL-WP | | Water | | | | | | |
| Batch R2260877 | | | | | | | | |
| WG1359404-3 DUP | | L1060061-1 | | | | | | |
| Ammonia as N | | 0.062 | 0.062 | | mg/L | 0.65 | 20 | 29-SEP-11 |
| WG1359404-5 DUP | | L1062339-1 | | | | | | |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| NH3-COL-WP | | Water | | | | | | |
| Batch | R2260877 | | | | | | | |
| WG1359404-5 | DUP | L1062339-1 | | | | | | |
| Ammonia as N | | 20.9 | 20.9 | DLA | mg/L | 0.12 | 20 | 29-SEP-11 |
| WG1359404-7 | DUP | L1062578-4 | | | | | | |
| Ammonia as N | | 110 | 110 | DLA | mg/L | 0.13 | 20 | 29-SEP-11 |
| WG1359404-2 | LCS | | | | | | | |
| Ammonia as N | | | 105 | | % | | 85-115 | 29-SEP-11 |
| WG1359404-1 | MB | | | | | | | |
| Ammonia as N | | | <0.050 | | mg/L | | 0.05 | 29-SEP-11 |
| WG1359404-4 | MS | L1060058-2 | | | | | | |
| Ammonia as N | | | 104 | | % | | 75-125 | 29-SEP-11 |
| WG1359404-6 | MS | L1060062-5 | | | | | | |
| Ammonia as N | | | 95 | | % | | 75-125 | 29-SEP-11 |
| WG1359404-8 | MS | L1062345-3 | | | | | | |
| Ammonia as N | | | 106 | | % | | 75-125 | 29-SEP-11 |
| NO2-IC-WP | | Water | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Nitrite-N | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Nitrite-N | | | 96 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Nitrite-N | | | <0.050 | | mg/L | | 0.05 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Nitrite-N | | | 104 | | % | | 75-125 | 19-SEP-11 |
| NO3-IC-WP | | Water | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Nitrate-N | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Nitrate-N | | | 100 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Nitrate-N | | | <0.050 | | mg/L | | 0.05 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Nitrate-N | | | 108 | | % | | 75-125 | 19-SEP-11 |
| P-T-COL-WP | | Water | | | | | | |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|---------|-----------|----------|-------|---------|-----------|
| P-T-COL-WP | | Water | | | | | | |
| Batch | R2254917 | | | | | | | |
| WG1352018-3 | DUP | L1060058-1 | | | | | | |
| Phosphorus (P)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 20 | 20-SEP-11 |
| WG1352018-5 | DUP | L1060062-3 | | | | | | |
| Phosphorus (P)-Total | | 0.036 | 0.018 | J | mg/L | 0.011 | 0.02 | 20-SEP-11 |
| WG1352018-2 | LCS | | | | | | | |
| Phosphorus (P)-Total | | | 94 | | % | | 80-120 | 20-SEP-11 |
| WG1352018-1 | MB | | | | | | | |
| Phosphorus (P)-Total | | | <0.010 | | mg/L | | 0.01 | 20-SEP-11 |
| WG1352018-6 | MS | L1060063-2 | | | | | | |
| Phosphorus (P)-Total | | | 91 | | % | | 70-130 | 20-SEP-11 |
| WG1352018-7 | MS | L1060065-1 | | | | | | |
| Phosphorus (P)-Total | | | 85 | | % | | 70-130 | 20-SEP-11 |
| WG1352018-8 | MS | L1060115-1 | | | | | | |
| Phosphorus (P)-Total | | | 91 | | % | | 70-130 | 20-SEP-11 |
| PH-WP | | Water | | | | | | |
| Batch | R2253785 | | | | | | | |
| WG1351525-4 | DUP | L1059370-11 | | | | | | |
| pH | | 6.40 | 6.29 | J | pH units | 0.11 | 0.2 | 17-SEP-11 |
| WG1351525-5 | DUP | L1059720-7 | | | | | | |
| pH | | 8.56 | 8.61 | J | pH units | 0.05 | 0.2 | 17-SEP-11 |
| WG1351525-2 | LCS | | | | | | | |
| pH | | | 7.41 | | pH units | | 7.3-7.5 | 17-SEP-11 |
| SIO2-L-COL-WP | | Water | | | | | | |
| Batch | R2258513 | | | | | | | |
| WG1356848-6 | DUP | L1057743-1 | | | | | | |
| Silica, Reactive (as SiO2) | | 0.321 | 0.323 | | mg/L | 0.70 | 20 | 24-SEP-11 |
| WG1356848-7 | DUP | L1059181-1 | | | | | | |
| Silica, Reactive (as SiO2) | | 0.0841 | 0.0838 | | mg/L | 0.32 | 20 | 24-SEP-11 |
| WG1356848-8 | DUP | L1060061-2 | | | | | | |
| Silica, Reactive (as SiO2) | | 4.04 | 4.49 | | mg/L | 11 | 20 | 24-SEP-11 |
| WG1356848-9 | DUP | L1060065-3 | | | | | | |
| Silica, Reactive (as SiO2) | | 2.66 | 2.57 | | mg/L | 3.6 | 20 | 24-SEP-11 |
| WG1356848-2 | LCS | | | | | | | |
| Silica, Reactive (as SiO2) | | | 100 | | % | | 85-115 | 24-SEP-11 |
| WG1356848-1 | MB | | | | | | | |
| Silica, Reactive (as SiO2) | | | <0.0050 | | mg/L | | 0.005 | 24-SEP-11 |
| WG1356848-3 | MS | L1060058-1 | | | | | | |
| Silica, Reactive (as SiO2) | | | 103 | | % | | 75-125 | 24-SEP-11 |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| SIO2-L-COL-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2258513 | | | | | | | |
| WG1356848-4 MS | | L1060060-3 | | | | | | |
| Silica, Reactive (as SiO2) | | | 97 | | % | | 75-125 | 24-SEP-11 |
| WG1356848-5 MS | | L1060063-7 | | | | | | |
| Silica, Reactive (as SiO2) | | | 113 | | % | | 75-125 | 24-SEP-11 |
| SO4-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 LCS | | | | | | | | |
| Sulfate | | | 102 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 MB | | | | | | | | |
| Sulfate | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |
| SOLIDS-TDS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2260332 | | | | | | | |
| WG1357759-2 CVS | | | | | | | | |
| Total Dissolved Solids | | | 100 | | % | | 85-115 | 28-SEP-11 |
| WG1357759-3 DUP | | L1060941-1 | | | | | | |
| Total Dissolved Solids | | 190 | 212 | | mg/L | 11 | 20 | 28-SEP-11 |
| WG1357759-4 DUP | | L1061337-1 | | | | | | |
| Total Dissolved Solids | | 10.0 | 10.0 | | mg/L | 0.0 | 400 | 28-SEP-11 |
| WG1357759-5 DUP | | L1061337-2 | | | | | | |
| Total Dissolved Solids | | 18.0 | 16.0 | | mg/L | 12 | 400 | 28-SEP-11 |
| WG1357759-7 DUP | | L1064352-1 | | | | | | |
| Total Dissolved Solids | | 1480 | 1510 | | mg/L | 2.0 | 20 | 28-SEP-11 |
| WG1357759-1 MB | | | | | | | | |
| Total Dissolved Solids | | | <5.0 | | mg/L | | 5 | 28-SEP-11 |
| SOLIDS-TOTSUS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2260332 | | | | | | | |
| WG1357759-2 CVS | | | | | | | | |
| Total Suspended Solids | | | 96 | | % | | 85-115 | 28-SEP-11 |
| WG1357759-6 DUP | | L1063827-1 | | | | | | |
| Total Suspended Solids | | 90.0 | 85.0 | | mg/L | 5.7 | 20 | 28-SEP-11 |
| WG1357759-7 DUP | | L1064352-1 | | | | | | |
| Total Suspended Solids | | 330 | 320 | | mg/L | 3.1 | 20 | 28-SEP-11 |
| WG1357759-1 MB | | | | | | | | |
| Total Suspended Solids | | | <5.0 | | mg/L | | 5 | 28-SEP-11 |
| TURBIDITY-WP | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| TURBIDITY-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2254943 | | | | | | | |
| WG1352212-3 | DUP | L1059370-5 | | | | | | |
| Turbidity | | 0.63 | 0.63 | | NTU | 0.32 | 15 | 17-SEP-11 |
| WG1352212-4 | DUP | L1060062-7 | | | | | | |
| Turbidity | | 2.21 | 2.20 | | NTU | 0.45 | 15 | 17-SEP-11 |
| WG1352212-2 | LCS | | | | | | | |
| Turbidity | | | 98 | | % | | 85-115 | 17-SEP-11 |
| WG1352212-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 17-SEP-11 |

Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

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Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|--|
| DLA | Detection Limit Adjusted For required dilution |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

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Contact: Clifton Samoiloff

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Total Dissolved Solids | | | | | | | |
| | 1 | 16-SEP-11 09:57 | 28-SEP-11 10:40 | 7 | 12 | days | EHT |
| | 2 | 16-SEP-11 10:49 | 28-SEP-11 10:40 | 7 | 12 | days | EHT |
| | 3 | 16-SEP-11 11:35 | 28-SEP-11 10:40 | 7 | 12 | days | EHT |
| | 4 | 16-SEP-11 12:19 | 28-SEP-11 10:40 | 7 | 12 | days | EHT |
| | 5 | 16-SEP-11 14:13 | 28-SEP-11 10:40 | 7 | 12 | days | EHT |
| | 6 | 16-SEP-11 14:29 | 28-SEP-11 10:40 | 7 | 12 | days | EHT |
| Total Suspended Solids | | | | | | | |
| | 1 | 16-SEP-11 09:57 | 28-SEP-11 10:40 | 7 | 12 | days | EHT |
| | 2 | 16-SEP-11 10:49 | 28-SEP-11 10:40 | 7 | 12 | days | EHT |
| | 3 | 16-SEP-11 11:35 | 28-SEP-11 10:40 | 7 | 12 | days | EHT |
| | 4 | 16-SEP-11 12:19 | 28-SEP-11 10:40 | 7 | 12 | days | EHT |
| | 5 | 16-SEP-11 14:13 | 28-SEP-11 10:40 | 7 | 12 | days | EHT |
| | 6 | 16-SEP-11 14:29 | 28-SEP-11 10:40 | 7 | 12 | days | EHT |
| pH | | | | | | | |
| | 1 | 16-SEP-11 09:57 | 17-SEP-11 10:39 | 0.25 | 25 | hours | EHTR-FM |
| | 2 | 16-SEP-11 10:49 | 17-SEP-11 10:39 | 0.25 | 24 | hours | EHTR-FM |
| | 3 | 16-SEP-11 11:35 | 17-SEP-11 10:39 | 0.25 | 23 | hours | EHTR-FM |
| | 4 | 16-SEP-11 12:19 | 17-SEP-11 10:39 | 0.25 | 22 | hours | EHTR-FM |
| | 5 | 16-SEP-11 14:13 | 17-SEP-11 10:39 | 0.25 | 20 | hours | EHTR-FM |
| | 6 | 16-SEP-11 14:29 | 17-SEP-11 10:39 | 0.25 | 20 | hours | EHTR-FM |
| Anions and Nutrients | | | | | | | |
| Bromide | | | | | | | |
| | 1 | 16-SEP-11 09:57 | 19-SEP-11 14:41 | 48 | 77 | hours | EHTL |
| | 2 | 16-SEP-11 10:49 | 19-SEP-11 14:41 | 48 | 76 | hours | EHT |
| | 3 | 16-SEP-11 11:35 | 19-SEP-11 14:41 | 48 | 75 | hours | EHT |
| | 4 | 16-SEP-11 12:19 | 19-SEP-11 14:41 | 48 | 74 | hours | EHT |
| | 5 | 16-SEP-11 14:13 | 19-SEP-11 14:41 | 48 | 72 | hours | EHT |
| | 6 | 16-SEP-11 14:29 | 19-SEP-11 14:41 | 48 | 72 | hours | EHT |
| Nitrate as N | | | | | | | |
| | 1 | 16-SEP-11 09:57 | 19-SEP-11 14:41 | 48 | 77 | hours | EHTL |
| | 2 | 16-SEP-11 10:49 | 19-SEP-11 14:41 | 48 | 76 | hours | EHT |
| | 3 | 16-SEP-11 11:35 | 19-SEP-11 14:41 | 48 | 75 | hours | EHT |
| | 4 | 16-SEP-11 12:19 | 19-SEP-11 14:41 | 48 | 74 | hours | EHT |
| | 5 | 16-SEP-11 14:13 | 19-SEP-11 14:41 | 48 | 72 | hours | EHT |
| | 6 | 16-SEP-11 14:29 | 19-SEP-11 14:41 | 48 | 72 | hours | EHT |
| Nitrite as N | | | | | | | |
| | 1 | 16-SEP-11 09:57 | 19-SEP-11 14:41 | 48 | 77 | hours | EHTL |
| | 2 | 16-SEP-11 10:49 | 19-SEP-11 14:41 | 48 | 76 | hours | EHT |
| | 3 | 16-SEP-11 11:35 | 19-SEP-11 14:41 | 48 | 75 | hours | EHT |
| | 4 | 16-SEP-11 12:19 | 19-SEP-11 14:41 | 48 | 74 | hours | EHT |
| | 5 | 16-SEP-11 14:13 | 19-SEP-11 14:41 | 48 | 72 | hours | EHT |
| | 6 | 16-SEP-11 14:29 | 19-SEP-11 14:41 | 48 | 72 | hours | EHT |
| Phosphorus, Total | | | | | | | |
| | 1 | 16-SEP-11 09:57 | 19-SEP-11 17:44 | 48 | 80 | hours | EHTL |
| | 2 | 16-SEP-11 10:49 | 19-SEP-11 17:44 | 48 | 79 | hours | EHT |
| | 3 | 16-SEP-11 11:35 | 19-SEP-11 17:44 | 48 | 78 | hours | EHT |
| | 4 | 16-SEP-11 12:19 | 19-SEP-11 17:44 | 48 | 78 | hours | EHT |
| | 5 | 16-SEP-11 14:13 | 19-SEP-11 17:44 | 48 | 76 | hours | EHT |
| | 6 | 16-SEP-11 14:29 | 19-SEP-11 17:44 | 48 | 75 | hours | EHT |

Quality Control Report

Workorder: L1060065

Report Date: 07-OCT-11

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

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Contact: Clifton Samoiloff

Legend & Qualifier Definitions:

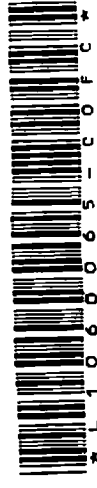
EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended 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 L1060065 were received on 17-SEP-11 10:30.

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: AECOM -W172
 Company: AECOM -W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone: [blank]
 Fax: [blank]

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

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

Number of Containers: 6

| Sample # | Sample Identification (This description will appear on the report) | Date (dd-mm-yy) | Time (hh:mm) | Sampler: | Sample Type |
|----------|---|--------------------|-----------------|----------|-------------|
| 1 | ANB-10 | 16 Sep | 9:57 | | water |
| 2 | ANB-09 | | 10:49 | | |
| 3 | ANB-08 | | 11:35 | | |
| 4 | ANB-07 | | 12:19 | | |
| 5 | ANB-06 ← Carbon missing | | 14:19 | | |
| 6 | ANB-04 | | 14:29 | | |
| | ANB-03 | | | | |
| | ANB-02 | | | | |

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

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: BLP
 Date (dd-mm-yy): 17 Sept
 Time (hh-mm): 10:30
 Temperature: 8 °C

Received by: [blank]
 Date: [blank]
 Time: [blank]
 Temperature: [blank] °C

Verified by: [blank]
 Date: [blank]
 Time: [blank]

Observations: Yes / No? If Yes add SIF



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

Date Received: 19-SEP-11
Report Date: 06-OCT-11 15:33 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1060067
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-300
C of C Numbers:
Legal Site Desc:

Gail Hill
Account Manager

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

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060067-1 ANB - 03 | | | | | | | |
| Sampled By: CLIENT on 17-SEP-11 @ 10:12 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | 9.14 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | 0.13 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | 60.9 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | <1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | 1.2 | | 1.0 | mg/L | 19-SEP-11 | 24-SEP-11 | R2257791 |
| Colour, True | 23.6 | | 5.0 | CU | | 19-SEP-11 | R2254446 |
| Dissolved Organic Carbon | 13.6 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Hardness (as CaCO3) | 164 | | 0.30 | mg/L | | 27-SEP-11 | |
| Hardness (as CaCO3) | 146 | | 0.20 | mg/L | | 26-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | 0.019 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | 1.10 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | 198 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Total Kjeldahl Nitrogen | 0.77 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | 14.4 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Total Suspended Solids | 5.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Turbidity | 2.36 | | 0.10 | NTU | | 20-SEP-11 | R2255191 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | 0.0674 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Antimony (Sb)-Total | 0.00226 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Arsenic (As)-Total | 0.00206 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Barium (Ba)-Total | 0.0151 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Boron (B)-Total | 0.013 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Calcium (Ca)-Total | 48.3 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Copper (Cu)-Total | 0.00094 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Iron (Fe)-Total | <0.10 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lithium (Li)-Total | 0.0039 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Magnesium (Mg)-Total | 10.6 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Manganese (Mn)-Total | 0.0213 | | 0.00030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Molybdenum (Mo)-Total | 0.00032 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060067-1 ANB - 03 | | | | | | | |
| Sampled By: CLIENT on 17-SEP-11 @ 10:12 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Metals by ICP-MS | | | | | | | |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Potassium (K)-Total | 3.39 | | 0.020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Rubidium (Rb)-Total | 0.00225 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silicon (Si)-Total | 1.89 | | 0.050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Sodium (Na)-Total | 7.84 | | 0.030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Strontium (Sr)-Total | 0.111 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Titanium (Ti)-Total | 0.00325 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Vanadium (V)-Total | 0.00047 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zinc (Zn)-Total | 0.0073 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | 0.0043 | | 0.0020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | 0.00237 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | 0.00186 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | 0.0146 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | 0.014 | | 0.010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | 41.9 | | 0.050 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | 0.00083 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | 0.0039 | | 0.0020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | 10.0 | | 0.010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | 0.00131 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | 0.00030 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | 3.01 | | 0.020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Rubidium (Rb)-Dissolved | 0.00197 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | 0.560 | | 0.050 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | 7.38 | | 0.020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | 0.100 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060067-1 ANB - 03 Sampled By: CLIENT on 17-SEP-11 @ 10:12 Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Titanium (Ti)-Dissolved | 0.00033 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | 0.00040 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | 0.0039 | | 0.0020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | 2.84 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | 1.88 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 79.9 | | 1.0 | mg/L | | 19-SEP-11 | R2254119 |
| Bicarbonate (HCO3) | 89.5 | | 2.0 | mg/L | | 19-SEP-11 | R2254119 |
| Carbonate (CO3) | 2.75 | | 0.60 | mg/L | | 19-SEP-11 | R2254119 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 19-SEP-11 | R2254119 |
| Conductivity | | | | | | | |
| Conductivity | 274 | | 0.40 | umhos/cm | | 19-SEP-11 | R2254119 |
| pH | | | | | | | |
| pH | 8.42 | | 0.10 | pH units | | 19-SEP-11 | R2254119 |
| L1060067-2 TRB - 05 Sampled By: CLIENT on 17-SEP-11 @ 12:00 Matrix: WATER | | | | | | | |
| Anions by IC | | | | | | | |
| Chloride | | | | | | | |
| Chloride | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Fluoride | | | | | | | |
| Fluoride | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrate as N | | | | | | | |
| Nitrate-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Nitrite as N | | | | | | | |
| Nitrite-N | <0.050 | | 0.050 | mg/L | | 19-SEP-11 | R2255553 |
| Sulfate | | | | | | | |
| Sulfate | <0.50 | | 0.50 | mg/L | | 19-SEP-11 | R2255553 |
| Miscellaneous Parameters | | | | | | | |
| Acidity (as CaCO3) | 1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2256906 |
| Ammonia as N | <0.050 | | 0.050 | mg/L | | 29-SEP-11 | R2260877 |
| Bromide (Br) | <0.10 | | 0.10 | mg/L | | 19-SEP-11 | R2255553 |
| BOD Carbonaceous | <1.0 | | 1.0 | mg/L | 19-SEP-11 | 24-SEP-11 | R2257791 |
| Colour, True | <5.0 | | 5.0 | CU | | 19-SEP-11 | R2254446 |
| Dissolved Organic Carbon | <1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |
| Hardness (as CaCO3) | <0.20 | | 0.20 | mg/L | | 28-SEP-11 | |
| Hardness (as CaCO3) | <0.30 | | 0.30 | mg/L | | 27-SEP-11 | |
| Mercury (Hg)-Dissolved | <0.000050 | | 0.000050 | mg/L | 05-OCT-11 | 05-OCT-11 | R2264510 |
| Mercury (Hg)-Total | <0.000050 | | 0.000050 | mg/L | 30-SEP-11 | 30-SEP-11 | R2263097 |
| Nitrate and Nitrite as N | <0.071 | | 0.071 | mg/L | | 19-SEP-11 | |
| Phosphorus (P)-Total | <0.010 | | 0.010 | mg/L | | 20-SEP-11 | R2254917 |
| Silica, Reactive (as SiO2) | <0.0050 | | 0.0050 | mg/L | | 24-SEP-11 | R2258513 |
| Total Dissolved Solids | <5.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Total Kjeldahl Nitrogen | <0.20 | | 0.20 | mg/L | 19-SEP-11 | 21-SEP-11 | R2255224 |
| Total Organic Carbon | <1.0 | | 1.0 | mg/L | | 21-SEP-11 | R2255889 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-------|-----------|-----------|----------|
| L1060067-2 TRB - 05 | | | | | | | |
| Sampled By: CLIENT on 17-SEP-11 @ 12:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 28-SEP-11 | R2260332 |
| Turbidity | <0.10 | | 0.10 | NTU | | 20-SEP-11 | R2255191 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | <0.0050 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Antimony (Sb)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Arsenic (As)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Barium (Ba)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Boron (B)-Total | <0.010 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Calcium (Ca)-Total | <0.10 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Copper (Cu)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Iron (Fe)-Total | <0.10 | | 0.10 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Lithium (Li)-Total | <0.0020 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Magnesium (Mg)-Total | <0.010 | | 0.010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Manganese (Mn)-Total | <0.00030 | | 0.00030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Molybdenum (Mo)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Phosphorus (P)-Total | <0.20 | | 0.20 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Potassium (K)-Total | <0.020 | | 0.020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Rubidium (Rb)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silicon (Si)-Total | <0.050 | | 0.050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Sodium (Na)-Total | <0.030 | | 0.030 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Strontium (Sr)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Titanium (Ti)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Tungsten (W)-Total | <0.0010 | | 0.0010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Uranium (U)-Total | <0.00010 | | 0.00010 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zinc (Zn)-Total | <0.0050 | | 0.0050 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 26-SEP-11 | 26-SEP-11 | R2258458 |
| Dissolved Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Dissolved | <0.0020 | | 0.0020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Antimony (Sb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Arsenic (As)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Barium (Ba)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Beryllium (Be)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Bismuth (Bi)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Boron (B)-Dissolved | <0.010 | | 0.010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Cadmium (Cd)-Dissolved | <0.000010 | | 0.000010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Calcium (Ca)-Dissolved | <0.050 | | 0.050 | mg/L | 19-SEP-11 | 27-SEP-11 | R2259295 |
| Cesium (Cs)-Dissolved | <0.00010 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|----------|-----------|-----------|----------|
| L1060067-2 TRB - 05 | | | | | | | |
| Sampled By: CLIENT on 17-SEP-11 @ 12:00 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals by ICP-MS | | | | | | | |
| Chromium (Cr)-Dissolved | <0.0020 | | 0.0020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Cobalt (Co)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Copper (Cu)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Iron (Fe)-Dissolved | <0.10 | | 0.10 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Lead (Pb)-Dissolved | <0.000090 | | 0.000090 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Lithium (Li)-Dissolved | <0.0020 | | 0.0020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Magnesium (Mg)-Dissolved | <0.010 | | 0.010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Manganese (Mn)-Dissolved | <0.00010 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Molybdenum (Mo)-Dissolved | <0.00010 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Nickel (Ni)-Dissolved | <0.0010 | | 0.0010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Phosphorus (P)-Dissolved | <0.10 | | 0.10 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Potassium (K)-Dissolved | <0.020 | | 0.020 | mg/L | 19-SEP-11 | 27-SEP-11 | R2259295 |
| Rubidium (Rb)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Selenium (Se)-Dissolved | <0.0010 | | 0.0010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Silicon (Si)-Dissolved | <0.050 | | 0.050 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Silver (Ag)-Dissolved | <0.00010 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Sodium (Na)-Dissolved | <0.020 | | 0.020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Strontium (Sr)-Dissolved | <0.00010 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Tellurium (Te)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Thallium (Tl)-Dissolved | <0.00010 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Thorium (Th)-Dissolved | <0.00010 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Tin (Sn)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Titanium (Ti)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Tungsten (W)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Uranium (U)-Dissolved | <0.00010 | | 0.00010 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Vanadium (V)-Dissolved | <0.00020 | | 0.00020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Zinc (Zn)-Dissolved | <0.0020 | | 0.0020 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Zirconium (Zr)-Dissolved | <0.00040 | | 0.00040 | mg/L | 19-SEP-11 | 23-SEP-11 | R2257942 |
| Chlorophyll a, Pheophytin by fluorometry | | | | | | | |
| Chlorophyll a | <0.10 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| Phaeophytin a | <0.10 | | 0.10 | ug/L | 22-SEP-11 | 23-SEP-11 | R2256774 |
| pH, Conductivity and Total Alkalinity | | | | | | | |
| Alkalinity | | | | | | | |
| Alkalinity, Total (as CaCO3) | 4.5 | | 1.0 | mg/L | | 19-SEP-11 | R2254119 |
| Bicarbonate (HCO3) | 5.5 | | 2.0 | mg/L | | 19-SEP-11 | R2254119 |
| Carbonate (CO3) | <0.60 | | 0.60 | mg/L | | 19-SEP-11 | R2254119 |
| Hydroxide (OH) | <0.40 | | 0.40 | mg/L | | 19-SEP-11 | R2254119 |
| Conductivity | | | | | | | |
| Conductivity | 0.88 | | 0.40 | umhos/cm | | 19-SEP-11 | R2254103 |
| pH | | | | | | | |
| pH | 6.08 | | 0.10 | pH units | | 19-SEP-11 | R2254119 |

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

Reference Information

Qualifiers for Individual Samples Listed:

| Sample Number | Client ID | Qualifier | Description |
|---------------|-----------|-----------|---|
| L1060067-1 | ANB - 03 | SFPL | Sample was Filtered and Preserved at the laboratory |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|--|---|
| ACY-L-8.3-PCT-WP | Water | Acidity | APHA 2310 B |
| Acidity is measured using auto-titration with sodium hydroxide to an endpoint of pH 8.3 | | | |
| ALK-TOT-WP | Water | Alkalinity | APHA 2320B |
| Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO ₃ ⁻ and H ₂ CO ₃ endpoints indicated electrometrically. | | | |
| BR-IC-WP | Water | Bromide | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| C-DIS-ORG-WP | Water | Dissolved Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| C-TOT-ORG-WP | Water | Total Organic Carbon | APHA 5310 B-INSTRUMENTAL-WP |
| This method is applicable to the analysis of ground water, wastewater, and surface water samples. The form detected depends upon sample pretreatment: Unfiltered sample = TC, 0.45um filtered = TDC. Samples are injected into a combustion tube containing an oxidation catalyst. The carrier gas containing the combustion product from the combustion tube flows through an inorganic carbon reactor vessel and is then sent through a halogen scrubber into a sample cell set in a non-dispersive infrared gas analyzer (NDIR) where carbon dioxide is detected. For total inorganic carbon and dissolved inorganic carbon, the sample is injected into an IC reactor vessel where only the IC component is decomposed to become carbon dioxide. | | | |
| The peak area generated by the NDIR indicates the TC/TDC or TIC/DIC as applicable. The total organic carbon content of the sample is calculated by subtracting the TIC from the TC. TOC = TC-TIC, DOC = TDC-DIC, Particulate = Total - Dissolved. | | | |
| CHL,PHEO-FLUORO-WP | Water | Chlorophyll a, Pheophytin by fluorometry | EPA 445.0 |
| Chlorophyll a is filtered from the sample and extracted with 90% (v/v) acetone. The sample is analyzed fluorometrically. The extract is then acidified, converting chlorophyll a to pheophytin a. The sample is analyzed fluorometrically again after acidification. The chlorophyll a concentration is determined from the decrease upon acidification. | | | |
| CL-IC-WP | Water | Chloride | EPA 300.1 IC |
| This analysis is carried out using procedures adapted from EPA Method 300.1 "Determination of Inorganic Anions in Drinking Water by Ion Chromatography". | | | |
| COLOUR-TRUE-WP | Water | Colour, True | APHA 2120C |
| True colour in water is analyzed by discrete analyzer using the platinum-cobalt colourimetric method. Colour is pH dependant; unless otherwise indicated, reported colour results pertain to the pH of the sample as received to within +/- 1 pH unit. | | | |
| CONSULT-BOD-CBOD-WP | Water | Carbonaceous BOD | APHA 5210 B-5 day Incub.-O ₂ electrode |
| A sample of water is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at beginning and end of incubation provides a measure of Biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis. | | | |
| EC-WP | Water | Conductivity | APHA 2510B |
| Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes. | | | |
| ETL-HARDNESS-DIS-WP | Water | Hardness Calculated | HARDNESS CALCULATED |

Reference Information

Test Method References:

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

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|------------------------|-----------------------|
| SOLIDS-TOTSUS-WP | Water | Total Suspended Solids | APHA 2540D |
| The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C. | | | |
| TURBIDITY-WP | Water | Turbidity | APHA 2130B (modified) |
| Turbidity in aqueous matrices is determined by the nephelometric method. | | | |

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1060067

Report Date: 06-OCT-11

Page 1 of 19

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| ACY-L-8.3-PCT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256906 | | | | | | | |
| WG1355010-3 | DUP | L1060044-1 | | | | | | |
| Acidity (as CaCO3) | | 2.8 | 2.7 | | mg/L | 6.0 | 25 | 21-SEP-11 |
| WG1355010-4 | DUP | L1060061-1 | | | | | | |
| Acidity (as CaCO3) | | 1.8 | 1.8 | | mg/L | 0.13 | 25 | 21-SEP-11 |
| WG1355010-5 | DUP | L1060062-5 | | | | | | |
| Acidity (as CaCO3) | | 1.0 | 1.1 | | mg/L | 4.0 | 25 | 21-SEP-11 |
| WG1355010-6 | DUP | L1060063-7 | | | | | | |
| Acidity (as CaCO3) | | 1.5 | 1.5 | | mg/L | 2.4 | 25 | 21-SEP-11 |
| WG1355010-2 | LCS | | | | | | | |
| Acidity (as CaCO3) | | | 106 | | % | | 70-130 | 21-SEP-11 |
| WG1355010-1 | MB | | | | | | | |
| Acidity (as CaCO3) | | | <1.0 | | mg/L | | 1 | 21-SEP-11 |
| ALK-TOT-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2254119 | | | | | | | |
| WG1351848-3 | CVS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 103 | | % | | 85-115 | 19-SEP-11 |
| WG1351848-4 | DUP | L1060067-1 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 79.9 | 79.7 | | mg/L | 0.21 | 20 | 19-SEP-11 |
| Bicarbonate (HCO3) | | 89.5 | 89.0 | | mg/L | 0.52 | 25 | 19-SEP-11 |
| Carbonate (CO3) | | 2.75 | 2.88 | | mg/L | 4.7 | 25 | 19-SEP-11 |
| Hydroxide (OH) | | <0.40 | <0.40 | RPD-NA | mg/L | N/A | 25 | 19-SEP-11 |
| BR-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Bromide (Br) | | | 96 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Bromide (Br) | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| C-DIS-ORG-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255889 | | | | | | | |
| WG1353838-2 | CVS | | | | | | | |
| Dissolved Organic Carbon | | | 101 | | % | | 80-120 | 21-SEP-11 |
| WG1353829-2 | DUP | L1060062-5 | | | | | | |
| Dissolved Organic Carbon | | 21.6 | 21.5 | | mg/L | 0.47 | 20 | 21-SEP-11 |
| WG1353829-1 | MB | | | | | | | |
| Dissolved Organic Carbon | | | <1.0 | | mg/L | | 1 | 21-SEP-11 |
| C-TOT-ORG-WP | | | | | | | | |
| | Water | | | | | | | |



Quality Control Report

Workorder: L1060067

Report Date: 06-OCT-11

Page 2 of 19

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 | R2255889 | | | | | | | |
| WG1353838-2 | CVS | | | | | | | |
| Total Organic Carbon | | | 101 | | % | | 80-120 | 21-SEP-11 |
| WG1353838-3 | DUP | L1060061-1 | | | | | | |
| Total Organic Carbon | | 29.5 | 29.6 | | mg/L | 0.18 | 20 | 21-SEP-11 |
| WG1353838-1 | MB | | | | | | | |
| Total Organic Carbon | | | <1.0 | | mg/L | | 1 | 21-SEP-11 |
| CHL,PHEO-FLUORO-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2256774 | | | | | | | |
| WG1354255-1 | CVS | | | | | | | |
| Chlorophyll a | | | 82 | | % | | 65-135 | 23-SEP-11 |
| WG1354255-2 | CVS | | | | | | | |
| Chlorophyll a | | | 112 | | % | | 65-135 | 23-SEP-11 |
| WG1354200-2 | DUP | L1060065-1 | | | | | | |
| Chlorophyll a | | 11.5 | 10.6 | | ug/L | 8.0 | 35 | 23-SEP-11 |
| Phaeophytin a | | 1.89 | 2.29 | | ug/L | 19 | 35 | 23-SEP-11 |
| WG1354200-3 | DUP | L1060067-1 | | | | | | |
| Chlorophyll a | | 2.84 | 2.88 | | ug/L | 1.4 | 35 | 23-SEP-11 |
| Phaeophytin a | | 1.88 | 1.95 | | ug/L | 3.7 | 35 | 23-SEP-11 |
| WG1354200-1 | MB | | | | | | | |
| Chlorophyll a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| Phaeophytin a | | | <0.10 | | ug/L | | 0.1 | 23-SEP-11 |
| CL-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Chloride | | 1.58 | 1.58 | | mg/L | 0.22 | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Chloride | | | 100 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Chloride | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Chloride | | | 107 | | % | | 75-125 | 19-SEP-11 |
| COLOUR-TRUE-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2254446 | | | | | | | |
| WG1352182-3 | DUP | L1060171-1 | | | | | | |
| Colour, True | | 25.5 | 25.3 | | CU | 0.98 | 20 | 19-SEP-11 |
| WG1352182-2 | LCS | | | | | | | |
| Colour, True | | | 100 | | % | | 85-115 | 19-SEP-11 |



Quality Control Report

Workorder: L1060067

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|------------|-----------|-----------|----------|------|--------|-----------|
| COLOUR-TRUE-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2254446 | | | | | | | |
| WG1352182-1 | MB | | | | | | | |
| Colour, True | | | <5.0 | | CU | | 5 | 19-SEP-11 |
| CONSULT-BOD-CBOD-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257791 | | | | | | | |
| WG1351552-3 | DUP | L1060044-1 | | | | | | |
| BOD Carbonaceous | | 1.2 | 1.3 | | mg/L | 7.8 | 400 | 24-SEP-11 |
| WG1351552-2 | IRM | 61-GG | | | | | | |
| BOD Carbonaceous | | | 99 | | % | | 85-115 | 24-SEP-11 |
| WG1351552-1 | MB | | | | | | | |
| BOD Carbonaceous | | | <1.0 | | mg/L | | 1 | 24-SEP-11 |
| EC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2254103 | | | | | | | |
| WG1351828-1 | CVS | | | | | | | |
| Conductivity | | | 99 | | % | | 90-110 | 19-SEP-11 |
| WG1351828-2 | DUP | L1060058-2 | | | | | | |
| Conductivity | | 0.98 | 0.97 | | umhos/cm | 1.0 | 400 | 19-SEP-11 |
| Batch | R2254119 | | | | | | | |
| WG1351848-1 | CVS | | | | | | | |
| Conductivity | | | 96 | | % | | 90-110 | 19-SEP-11 |
| WG1351848-4 | DUP | L1060067-1 | | | | | | |
| Conductivity | | 274 | 273 | | umhos/cm | 0.22 | 10 | 19-SEP-11 |
| F-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Fluoride | | | 101 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Fluoride | | | <0.10 | | mg/L | | 0.1 | 19-SEP-11 |
| HG-D-CVAF-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2264510 | | | | | | | |
| WG1363399-5 | DUP | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | N/A | <0.000050 | RPD-NA | mg/L | N/A | 20 | 05-OCT-11 |
| WG1363399-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 103 | | % | | 80-120 | 05-OCT-11 |
| WG1363399-1 | MB | | | | | | | |



Quality Control Report

Workorder: L1060067

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|-----------|-----------|-------|------|---------|-----------|
| HG-D-CVAF-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2264510 | | | | | | | |
| WG1363399-1 MB | | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| WG1363406-1 MB | | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | <0.000050 | | mg/L | | 0.00005 | 05-OCT-11 |
| WG1363399-6 MS | | L1060062-2 | | | | | | |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |
| Mercury (Hg)-Dissolved | | | 107 | | % | | 70-130 | 05-OCT-11 |
| HG-T-CVAF-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2263097 | | | | | | | |
| WG1361800-3 DUP | | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | <0.000050 | <0.000050 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-5 DUP | | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | <0.000050 | 0.000070 | RPD-NA | mg/L | N/A | 20 | 30-SEP-11 |
| WG1361800-2 LCS | | | | | | | | |
| Mercury (Hg)-Total | | | 100 | | % | | 80-120 | 30-SEP-11 |
| WG1361800-1 MB | | | | | | | | |
| Mercury (Hg)-Total | | | <0.000050 | | mg/L | | 0.00005 | 30-SEP-11 |
| WG1361800-4 MS | | L1060044-1 | | | | | | |
| Mercury (Hg)-Total | | | 93 | | % | | 70-130 | 30-SEP-11 |
| WG1361800-6 MS | | L1060062-5 | | | | | | |
| Mercury (Hg)-Total | | | 85 | | % | | 70-130 | 30-SEP-11 |
| MET-D-L-MS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-4 DUP | | WG1356177-3 | | | | | | |
| Aluminum (Al)-Dissolved | | 2.03 | 1.99 | | mg/L | 1.8 | 20 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | 1.02 | 1.01 | | mg/L | 1.2 | 20 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | 1.00 | 1.01 | | mg/L | 0.34 | 20 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | 0.256 | 0.252 | | mg/L | 1.3 | 20 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | 0.105 | 0.101 | | mg/L | 3.4 | 20 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | 1.02 | 1.03 | | mg/L | 0.20 | 20 | 23-SEP-11 |
| Boron (B)-Dissolved | | 1.03 | 1.00 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | 0.103 | 0.106 | | mg/L | 2.7 | 20 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | 50.2 | 50.5 | | mg/L | 0.69 | 20 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | 0.0493 | 0.0489 | | mg/L | 0.70 | 20 | 23-SEP-11 |



Quality Control Report

Workorder: L1060067

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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 | R2257942 | | | | | | | |
| WG1356177-4 | DUP | WG1356177-3 | | | | | | |
| Chromium (Cr)-Dissolved | | 0.249 | 0.251 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | 0.257 | 0.256 | | mg/L | 0.20 | 20 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | 0.250 | 0.252 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | 1.00 | 1.01 | | mg/L | 0.49 | 20 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | 0.514 | 0.503 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | 0.263 | 0.254 | | mg/L | 3.7 | 20 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | 50.5 | 50.9 | | mg/L | 0.73 | 20 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | 0.247 | 0.252 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | 0.255 | 0.261 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | 0.513 | 0.520 | | mg/L | 1.4 | 20 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | 2.61 | 2.67 | | mg/L | 2.4 | 20 | 23-SEP-11 |
| Potassium (K)-Dissolved | | 51.8 | 50.9 | | mg/L | 1.8 | 20 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | 0.101 | 0.103 | | mg/L | 2.2 | 20 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | 1.01 | 1.01 | | mg/L | 0.29 | 20 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | 1.01 | 1.00 | | mg/L | 0.38 | 20 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | 0.108 | 0.113 | | mg/L | 4.5 | 20 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | 51.4 | 51.9 | | mg/L | 1.1 | 20 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | 0.254 | 0.262 | | mg/L | 2.9 | 20 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | 0.103 | 0.105 | | mg/L | 1.9 | 20 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | 1.04 | 1.03 | | mg/L | 1.3 | 20 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | 0.0988 | 0.101 | | mg/L | 2.2 | 25 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | 0.523 | 0.540 | | mg/L | 3.1 | 20 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | 0.252 | 0.258 | | mg/L | 2.3 | 20 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | 0.101 | 0.0999 | | mg/L | 1.0 | 20 | 23-SEP-11 |
| Uranium (U)-Dissolved | | 0.00518 | 0.00498 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | 0.511 | 0.519 | | mg/L | 1.6 | 20 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | 0.510 | 0.516 | | mg/L | 1.2 | 20 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | 0.0994 | 0.103 | | mg/L | 3.9 | 20 | 23-SEP-11 |
| WG1356177-2 | LCS | | | | | | | |
| Aluminum (Al)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |



Quality Control Report

Workorder: L1060067

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------|--------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-2 | LCS | | | | | | | |
| Beryllium (Be)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Boron (B)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | 100 | | % | | 80-120 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Potassium (K)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | 108 | | % | | 80-120 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | 103 | | % | | 80-120 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | | 105 | | % | | 80-120 | 23-SEP-11 |
| Titanium (Ti)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | 101 | | % | | 80-120 | 23-SEP-11 |
| Uranium (U)-Dissolved | | | 104 | | % | | 80-120 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | 102 | | % | | 80-120 | 23-SEP-11 |



Quality Control Report

Workorder: L1060067

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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 | R2257942 | | | | | | | |
| WG1356177-2 | LCS | | | | | | | |
| Zirconium (Zr)-Dissolved | | | 99 | | % | | 80-120 | 23-SEP-11 |
| WG1356177-1 | MB | | | | | | | |
| Aluminum (Al)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Antimony (Sb)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Arsenic (As)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Barium (Ba)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Beryllium (Be)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Bismuth (Bi)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Boron (B)-Dissolved | | | <0.010 | | mg/L | | 0.03 | 23-SEP-11 |
| Cadmium (Cd)-Dissolved | | | <0.000010 | | mg/L | | 0.0002 | 23-SEP-11 |
| Calcium (Ca)-Dissolved | | | <0.050 | | mg/L | | 0.2 | 23-SEP-11 |
| Cesium (Cs)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Chromium (Cr)-Dissolved | | | <0.0020 | | mg/L | | 0.002 | 23-SEP-11 |
| Cobalt (Co)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Copper (Cu)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Iron (Fe)-Dissolved | | | <0.10 | | mg/L | | 0.1 | 23-SEP-11 |
| Lead (Pb)-Dissolved | | | <0.000090 | | mg/L | | 0.001 | 23-SEP-11 |
| Lithium (Li)-Dissolved | | | <0.0020 | | mg/L | | 0.01 | 23-SEP-11 |
| Magnesium (Mg)-Dissolved | | | <0.010 | | mg/L | | 0.05 | 23-SEP-11 |
| Manganese (Mn)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Molybdenum (Mo)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Nickel (Ni)-Dissolved | | | <0.0010 | | mg/L | | 0.002 | 23-SEP-11 |
| Phosphorus (P)-Dissolved | | | <0.10 | | mg/L | | 0.5 | 23-SEP-11 |
| Potassium (K)-Dissolved | | | <0.020 | | mg/L | | 0.1 | 23-SEP-11 |
| Rubidium (Rb)-Dissolved | | | <0.00020 | | mg/L | | 0.0005 | 23-SEP-11 |
| Selenium (Se)-Dissolved | | | <0.0010 | | mg/L | | 0.005 | 23-SEP-11 |
| Silicon (Si)-Dissolved | | | <0.050 | | mg/L | | 0.3 | 23-SEP-11 |
| Silver (Ag)-Dissolved | | | <0.00010 | | mg/L | | 0.001 | 23-SEP-11 |
| Sodium (Na)-Dissolved | | | <0.020 | | mg/L | | 0.05 | 23-SEP-11 |
| Strontium (Sr)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Tellurium (Te)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Thallium (Tl)-Dissolved | | | <0.00010 | | mg/L | | 0.005 | 23-SEP-11 |
| Thorium (Th)-Dissolved | | | <0.00010 | | mg/L | | 0.0001 | 23-SEP-11 |
| Tin (Sn)-Dissolved | | | <0.00020 | | mg/L | | 0.0006 | 23-SEP-11 |



Quality Control Report

Workorder: L1060067

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|-----------|-----------|-------|-----|--------|-----------|
| MET-D-L-MS-WP | | Water | | | | | | |
| Batch | R2257942 | | | | | | | |
| WG1356177-1 | MB | | | | | | | |
| Titanium (Ti)-Dissolved | | | <0.00020 | | mg/L | | 0.001 | 23-SEP-11 |
| Tungsten (W)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Uranium (U)-Dissolved | | | <0.00010 | | mg/L | | 0.0005 | 23-SEP-11 |
| Vanadium (V)-Dissolved | | | <0.00020 | | mg/L | | 0.002 | 23-SEP-11 |
| Zinc (Zn)-Dissolved | | | <0.0020 | | mg/L | | 0.02 | 23-SEP-11 |
| Zirconium (Zr)-Dissolved | | | <0.00040 | | mg/L | | 0.001 | 23-SEP-11 |
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2258458 | | | | | | | |
| WG1356012-4 | DUP | WG1356012-3 | | | | | | |
| Aluminum (Al)-Total | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Antimony (Sb)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Arsenic (As)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Barium (Ba)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Beryllium (Be)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Bismuth (Bi)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Boron (B)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Cadmium (Cd)-Total | | <0.000010 | <0.000010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Calcium (Ca)-Total | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Cesium (Cs)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Chromium (Cr)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Cobalt (Co)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Copper (Cu)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Iron (Fe)-Total | | <0.10 | <0.10 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Lead (Pb)-Total | | <0.000090 | <0.000090 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Lithium (Li)-Total | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Magnesium (Mg)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Manganese (Mn)-Total | | <0.00030 | <0.00030 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Molybdenum (Mo)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Nickel (Ni)-Total | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Phosphorus (P)-Total | | <0.20 | <0.20 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Potassium (K)-Total | | <0.020 | <0.020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Rubidium (Rb)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Selenium (Se)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |



Quality Control Report

Workorder: L1060067

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------|-----------------|--------------------|-----------|-----------|-------|------|-------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2258458 | | | | | | | |
| WG1356012-4 | DUP | WG1356012-3 | | | | | | |
| Silicon (Si)-Total | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Silver (Ag)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Sodium (Na)-Total | | <0.030 | <0.030 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Strontium (Sr)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Tellurium (Te)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Thallium (Tl)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Thorium (Th)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 25 | 26-SEP-11 |
| Tin (Sn)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Titanium (Ti)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Tungsten (W)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Uranium (U)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Vanadium (V)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Zinc (Zn)-Total | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Zirconium (Zr)-Total | | <0.00040 | <0.00040 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| WG1356012-6 | DUP | WG1356012-5 | | | | | | |
| Aluminum (Al)-Total | | 0.0800 | 0.0700 | | mg/L | 13 | 20 | 26-SEP-11 |
| Antimony (Sb)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Arsenic (As)-Total | | 0.00287 | 0.00279 | | mg/L | 2.8 | 20 | 26-SEP-11 |
| Barium (Ba)-Total | | 0.0108 | 0.0108 | | mg/L | 0.27 | 20 | 26-SEP-11 |
| Beryllium (Be)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Bismuth (Bi)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Boron (B)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Cadmium (Cd)-Total | | <0.000010 | <0.000010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Calcium (Ca)-Total | | 19.5 | 19.0 | | mg/L | 2.4 | 20 | 26-SEP-11 |
| Cesium (Cs)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Chromium (Cr)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Cobalt (Co)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Copper (Cu)-Total | | 0.00135 | 0.00126 | | mg/L | 6.6 | 20 | 26-SEP-11 |
| Iron (Fe)-Total | | 0.12 | 0.12 | | mg/L | 5.5 | 400 | 26-SEP-11 |
| Lead (Pb)-Total | | <0.000090 | <0.000090 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Lithium (Li)-Total | | 0.0042 | 0.0040 | | mg/L | 6.1 | 400 | 26-SEP-11 |
| Magnesium (Mg)-Total | | 8.30 | 8.20 | | mg/L | 1.2 | 20 | 26-SEP-11 |
| Manganese (Mn)-Total | | 0.0401 | 0.0397 | | mg/L | 0.96 | 20 | 26-SEP-11 |



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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------------|----------|-----------|-------|------|--------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2258458 | | | | | | | |
| WG1356012-6 | DUP | WG1356012-5 | | | | | | |
| Molybdenum (Mo)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Nickel (Ni)-Total | | <0.0020 | <0.0020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Phosphorus (P)-Total | | <0.20 | <0.20 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Potassium (K)-Total | | 1.40 | 1.31 | | mg/L | 6.7 | 20 | 26-SEP-11 |
| Rubidium (Rb)-Total | | 0.00142 | 0.00138 | | mg/L | 2.4 | 20 | 26-SEP-11 |
| Selenium (Se)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Silicon (Si)-Total | | 1.98 | 2.15 | | mg/L | 8.3 | 20 | 26-SEP-11 |
| Silver (Ag)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Sodium (Na)-Total | | 3.77 | 3.74 | | mg/L | 0.94 | 20 | 26-SEP-11 |
| Strontium (Sr)-Total | | 0.0475 | 0.0465 | | mg/L | 2.2 | 20 | 26-SEP-11 |
| Tellurium (Te)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Thallium (Tl)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Thorium (Th)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 25 | 26-SEP-11 |
| Tin (Sn)-Total | | <0.00020 | <0.00020 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Tungsten (W)-Total | | <0.0010 | <0.0010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Uranium (U)-Total | | <0.00010 | <0.00010 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Vanadium (V)-Total | | 0.00055 | 0.00050 | | mg/L | 9.0 | 400 | 26-SEP-11 |
| Zinc (Zn)-Total | | <0.0050 | <0.0050 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| Zirconium (Zr)-Total | | <0.00040 | <0.00040 | RPD-NA | mg/L | N/A | 400 | 26-SEP-11 |
| WG1356012-2 | LCS | | | | | | | |
| Aluminum (Al)-Total | | | 98 | | % | | 80-120 | 26-SEP-11 |
| Antimony (Sb)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |
| Arsenic (As)-Total | | | 97 | | % | | 80-120 | 26-SEP-11 |
| Barium (Ba)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |
| Beryllium (Be)-Total | | | 102 | | % | | 80-120 | 26-SEP-11 |
| Bismuth (Bi)-Total | | | 97 | | % | | 80-120 | 26-SEP-11 |
| Boron (B)-Total | | | 105 | | % | | 80-120 | 26-SEP-11 |
| Cadmium (Cd)-Total | | | 100 | | % | | 80-120 | 26-SEP-11 |
| Calcium (Ca)-Total | | | 107 | | % | | 80-120 | 26-SEP-11 |
| Cesium (Cs)-Total | | | 93 | | % | | 80-120 | 26-SEP-11 |
| Chromium (Cr)-Total | | | 102 | | % | | 80-120 | 26-SEP-11 |
| Cobalt (Co)-Total | | | 97 | | % | | 80-120 | 26-SEP-11 |
| Copper (Cu)-Total | | | 97 | | % | | 80-120 | 26-SEP-11 |



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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2258458 | | | | | | | |
| WG1356012-2 | LCS | | | | | | | |
| Iron (Fe)-Total | | | 99 | | % | | 80-120 | 26-SEP-11 |
| Lead (Pb)-Total | | | 99 | | % | | 80-120 | 26-SEP-11 |
| Lithium (Li)-Total | | | 112 | | % | | 80-120 | 26-SEP-11 |
| Magnesium (Mg)-Total | | | 106 | | % | | 80-120 | 26-SEP-11 |
| Manganese (Mn)-Total | | | 98 | | % | | 80-120 | 26-SEP-11 |
| Molybdenum (Mo)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |
| Nickel (Ni)-Total | | | 102 | | % | | 80-120 | 26-SEP-11 |
| Phosphorus (P)-Total | | | 99 | | % | | 80-120 | 26-SEP-11 |
| Potassium (K)-Total | | | 110 | | % | | 80-120 | 26-SEP-11 |
| Rubidium (Rb)-Total | | | 107 | | % | | 80-120 | 26-SEP-11 |
| Selenium (Se)-Total | | | 94 | | % | | 80-120 | 26-SEP-11 |
| Silicon (Si)-Total | | | 113 | | % | | 80-120 | 26-SEP-11 |
| Silver (Ag)-Total | | | 108 | | % | | 80-120 | 26-SEP-11 |
| Sodium (Na)-Total | | | 113 | | % | | 80-120 | 26-SEP-11 |
| Strontium (Sr)-Total | | | 104 | | % | | 80-120 | 26-SEP-11 |
| Tellurium (Te)-Total | | | 99 | | % | | 80-120 | 26-SEP-11 |
| Thallium (Tl)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |
| Thorium (Th)-Total | | | 95 | | % | | 70-130 | 26-SEP-11 |
| Tin (Sn)-Total | | | 101 | | % | | 80-120 | 26-SEP-11 |
| Titanium (Ti)-Total | | | 109 | | % | | 80-120 | 26-SEP-11 |
| Tungsten (W)-Total | | | 97 | | % | | 80-120 | 26-SEP-11 |
| Uranium (U)-Total | | | 94 | | % | | 80-120 | 26-SEP-11 |
| Vanadium (V)-Total | | | 105 | | % | | 80-120 | 26-SEP-11 |
| Zinc (Zn)-Total | | | 99 | | % | | 80-120 | 26-SEP-11 |
| Zirconium (Zr)-Total | | | 103 | | % | | 80-120 | 26-SEP-11 |
| WG1356012-1 | MB | | | | | | | |
| Aluminum (Al)-Total | | | <0.0050 | | mg/L | | 0.02 | 26-SEP-11 |
| Antimony (Sb)-Total | | | <0.00020 | | mg/L | | 0.001 | 26-SEP-11 |
| Arsenic (As)-Total | | | <0.00020 | | mg/L | | 0.001 | 26-SEP-11 |
| Barium (Ba)-Total | | | <0.00020 | | mg/L | | 0.0005 | 26-SEP-11 |
| Beryllium (Be)-Total | | | <0.00020 | | mg/L | | 0.001 | 26-SEP-11 |
| Bismuth (Bi)-Total | | | <0.00020 | | mg/L | | 0.0005 | 26-SEP-11 |
| Boron (B)-Total | | | <0.010 | | mg/L | | 0.03 | 26-SEP-11 |
| Cadmium (Cd)-Total | | | <0.000010 | | mg/L | | 0.0002 | 26-SEP-11 |



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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------|-----------------|--------------|-----------|-----------|-------|-----|--------|-----------|
| MET-T-L-MS-WP | | Water | | | | | | |
| Batch | R2258458 | | | | | | | |
| WG1356012-1 MB | | | | | | | | |
| Calcium (Ca)-Total | | | <0.10 | | mg/L | | 0.2 | 26-SEP-11 |
| Cesium (Cs)-Total | | | <0.00010 | | mg/L | | 0.0005 | 26-SEP-11 |
| Chromium (Cr)-Total | | | <0.0010 | | mg/L | | 0.002 | 26-SEP-11 |
| Cobalt (Co)-Total | | | <0.00020 | | mg/L | | 0.0005 | 26-SEP-11 |
| Copper (Cu)-Total | | | <0.00020 | | mg/L | | 0.002 | 26-SEP-11 |
| Iron (Fe)-Total | | | <0.10 | | mg/L | | 0.1 | 26-SEP-11 |
| Lead (Pb)-Total | | | <0.000090 | | mg/L | | 0.001 | 26-SEP-11 |
| Lithium (Li)-Total | | | <0.0020 | | mg/L | | 0.002 | 26-SEP-11 |
| Magnesium (Mg)-Total | | | <0.010 | | mg/L | | 0.05 | 26-SEP-11 |
| Manganese (Mn)-Total | | | <0.00030 | | mg/L | | 0.001 | 26-SEP-11 |
| Molybdenum (Mo)-Total | | | <0.00020 | | mg/L | | 0.0005 | 26-SEP-11 |
| Nickel (Ni)-Total | | | <0.0020 | | mg/L | | 0.002 | 26-SEP-11 |
| Phosphorus (P)-Total | | | <0.20 | | mg/L | | 0.5 | 26-SEP-11 |
| Potassium (K)-Total | | | <0.020 | | mg/L | | 0.1 | 26-SEP-11 |
| Rubidium (Rb)-Total | | | <0.00020 | | mg/L | | 0.0005 | 26-SEP-11 |
| Selenium (Se)-Total | | | <0.0010 | | mg/L | | 0.005 | 26-SEP-11 |
| Silicon (Si)-Total | | | <0.050 | | mg/L | | 0.3 | 26-SEP-11 |
| Silver (Ag)-Total | | | <0.00010 | | mg/L | | 0.001 | 26-SEP-11 |
| Sodium (Na)-Total | | | <0.030 | | mg/L | | 0.05 | 26-SEP-11 |
| Strontium (Sr)-Total | | | <0.00010 | | mg/L | | 0.0005 | 26-SEP-11 |
| Tellurium (Te)-Total | | | <0.00020 | | mg/L | | 0.001 | 26-SEP-11 |
| Thallium (Tl)-Total | | | <0.00010 | | mg/L | | 0.005 | 26-SEP-11 |
| Thorium (Th)-Total | | | <0.00010 | | mg/L | | 0.0001 | 26-SEP-11 |
| Tin (Sn)-Total | | | <0.00020 | | mg/L | | 0.0006 | 26-SEP-11 |
| Titanium (Ti)-Total | | | <0.00020 | | mg/L | | 0.001 | 26-SEP-11 |
| Tungsten (W)-Total | | | <0.0010 | | mg/L | | 0.002 | 26-SEP-11 |
| Uranium (U)-Total | | | <0.00010 | | mg/L | | 0.0005 | 26-SEP-11 |
| Vanadium (V)-Total | | | <0.00020 | | mg/L | | 0.002 | 26-SEP-11 |
| Zinc (Zn)-Total | | | <0.0050 | | mg/L | | 0.02 | 26-SEP-11 |
| Zirconium (Zr)-Total | | | <0.00040 | | mg/L | | 0.001 | 26-SEP-11 |

N-TOTKJ-WP **Water**



Quality Control Report

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| N-TOTKJ-WP | | | | | | | | |
| Water | | | | | | | | |
| Batch | R2255224 | | | | | | | |
| WG1353102-1 | CVS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 95 | | % | | 90-110 | 21-SEP-11 |
| WG1352408-4 | DUP | L1060071-2 | | | | | | |
| Total Kjeldahl Nitrogen | | 1.61 | 1.68 | | mg/L | 4.1 | 20 | 21-SEP-11 |
| WG1352408-6 | DUP | L1060073-3 | | | | | | |
| Total Kjeldahl Nitrogen | | 1.31 | 1.26 | | mg/L | 3.9 | 20 | 21-SEP-11 |
| WG1352408-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 105 | | % | | 75-125 | 21-SEP-11 |
| WG1352408-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.20 | | mg/L | | 0.2 | 21-SEP-11 |
| WG1352408-3 | MS | L1060071-2 | | | | | | |
| Total Kjeldahl Nitrogen | | | N/A | MS-B | % | | - | 21-SEP-11 |
| WG1352408-5 | MS | L1060073-3 | | | | | | |
| Total Kjeldahl Nitrogen | | | N/A | MS-B | % | | - | 21-SEP-11 |
| NH3-COL-WP | | | | | | | | |
| Water | | | | | | | | |
| Batch | R2260877 | | | | | | | |
| WG1359404-3 | DUP | L1060061-1 | | | | | | |
| Ammonia as N | | 0.062 | 0.062 | | mg/L | 0.65 | 20 | 29-SEP-11 |
| WG1359404-5 | DUP | L1062339-1 | | | | | | |
| Ammonia as N | | 20.9 | 20.9 | DLA | mg/L | 0.12 | 20 | 29-SEP-11 |
| WG1359404-7 | DUP | L1062578-4 | | | | | | |
| Ammonia as N | | 110 | 110 | DLA | mg/L | 0.13 | 20 | 29-SEP-11 |
| WG1359404-2 | LCS | | | | | | | |
| Ammonia as N | | | 105 | | % | | 85-115 | 29-SEP-11 |
| WG1359404-1 | MB | | | | | | | |
| Ammonia as N | | | <0.050 | | mg/L | | 0.05 | 29-SEP-11 |
| WG1359404-4 | MS | L1060058-2 | | | | | | |
| Ammonia as N | | | 104 | | % | | 75-125 | 29-SEP-11 |
| WG1359404-6 | MS | L1060062-5 | | | | | | |
| Ammonia as N | | | 95 | | % | | 75-125 | 29-SEP-11 |
| WG1359404-8 | MS | L1062345-3 | | | | | | |
| Ammonia as N | | | 106 | | % | | 75-125 | 29-SEP-11 |
| NO2-IC-WP | | | | | | | | |
| Water | | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Nitrite-N | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Nitrite-N | | | 96 | | % | | 85-115 | 19-SEP-11 |



Quality Control Report

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------|-----------------|-------------------|--------|-----------|----------|-------|---------|-----------|
| NO2-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-1 | MB | | | | | | | |
| Nitrite-N | | | <0.050 | | mg/L | | 0.05 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Nitrite-N | | | 104 | | % | | 75-125 | 19-SEP-11 |
| NO3-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-3 | DUP | L1060115-3 | | | | | | |
| Nitrate-N | | <0.050 | <0.050 | RPD-NA | mg/L | N/A | 20 | 19-SEP-11 |
| WG1353456-2 | LCS | | | | | | | |
| Nitrate-N | | | 100 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Nitrate-N | | | <0.050 | | mg/L | | 0.05 | 19-SEP-11 |
| WG1353456-4 | MS | L1060115-3 | | | | | | |
| Nitrate-N | | | 108 | | % | | 75-125 | 19-SEP-11 |
| P-T-COL-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2254917 | | | | | | | |
| WG1352018-3 | DUP | L1060058-1 | | | | | | |
| Phosphorus (P)-Total | | <0.010 | <0.010 | RPD-NA | mg/L | N/A | 20 | 20-SEP-11 |
| WG1352018-5 | DUP | L1060062-3 | | | | | | |
| Phosphorus (P)-Total | | 0.036 | 0.018 | J | mg/L | 0.011 | 0.02 | 20-SEP-11 |
| WG1352018-2 | LCS | | | | | | | |
| Phosphorus (P)-Total | | | 94 | | % | | 80-120 | 20-SEP-11 |
| WG1352018-1 | MB | | | | | | | |
| Phosphorus (P)-Total | | | <0.010 | | mg/L | | 0.01 | 20-SEP-11 |
| WG1352018-6 | MS | L1060063-2 | | | | | | |
| Phosphorus (P)-Total | | | 91 | | % | | 70-130 | 20-SEP-11 |
| WG1352018-7 | MS | L1060065-1 | | | | | | |
| Phosphorus (P)-Total | | | 85 | | % | | 70-130 | 20-SEP-11 |
| WG1352018-8 | MS | L1060115-1 | | | | | | |
| Phosphorus (P)-Total | | | 91 | | % | | 70-130 | 20-SEP-11 |
| PH-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2254119 | | | | | | | |
| WG1351848-4 | DUP | L1060067-1 | | | | | | |
| pH | | 8.42 | 8.44 | J | pH units | 0.02 | 0.2 | 19-SEP-11 |
| WG1351848-2 | LCS | | | | | | | |
| pH | | | 7.41 | | pH units | | 7.3-7.5 | 19-SEP-11 |
| SIO2-L-COL-WP | | | | | | | | |
| | Water | | | | | | | |



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Workorder: L1060067

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|-------------------|---------|-----------|-------|------|--------|-----------|
| SIO2-L-COL-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2258513 | | | | | | | |
| WG1356848-6 | DUP | L1057743-1 | | | | | | |
| Silica, Reactive (as SiO2) | | 0.321 | 0.323 | | mg/L | 0.70 | 20 | 24-SEP-11 |
| WG1356848-7 | DUP | L1059181-1 | | | | | | |
| Silica, Reactive (as SiO2) | | 0.0841 | 0.0838 | | mg/L | 0.32 | 20 | 24-SEP-11 |
| WG1356848-8 | DUP | L1060061-2 | | | | | | |
| Silica, Reactive (as SiO2) | | 4.04 | 4.49 | | mg/L | 11 | 20 | 24-SEP-11 |
| WG1356848-9 | DUP | L1060065-3 | | | | | | |
| Silica, Reactive (as SiO2) | | 2.66 | 2.57 | | mg/L | 3.6 | 20 | 24-SEP-11 |
| WG1356848-2 | LCS | | | | | | | |
| Silica, Reactive (as SiO2) | | | 100 | | % | | 85-115 | 24-SEP-11 |
| WG1356848-1 | MB | | | | | | | |
| Silica, Reactive (as SiO2) | | | <0.0050 | | mg/L | | 0.005 | 24-SEP-11 |
| WG1356848-3 | MS | L1060058-1 | | | | | | |
| Silica, Reactive (as SiO2) | | | 103 | | % | | 75-125 | 24-SEP-11 |
| WG1356848-4 | MS | L1060060-3 | | | | | | |
| Silica, Reactive (as SiO2) | | | 97 | | % | | 75-125 | 24-SEP-11 |
| WG1356848-5 | MS | L1060063-7 | | | | | | |
| Silica, Reactive (as SiO2) | | | 113 | | % | | 75-125 | 24-SEP-11 |
| SO4-IC-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255553 | | | | | | | |
| WG1353456-2 | LCS | | | | | | | |
| Sulfate | | | 102 | | % | | 85-115 | 19-SEP-11 |
| WG1353456-1 | MB | | | | | | | |
| Sulfate | | | <0.50 | | mg/L | | 0.5 | 19-SEP-11 |
| SOLIDS-TDS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2260332 | | | | | | | |
| WG1357759-2 | CVS | | | | | | | |
| Total Dissolved Solids | | | 100 | | % | | 85-115 | 28-SEP-11 |
| WG1357759-3 | DUP | L1060941-1 | | | | | | |
| Total Dissolved Solids | | 190 | 212 | | mg/L | 11 | 20 | 28-SEP-11 |
| WG1357759-4 | DUP | L1061337-1 | | | | | | |
| Total Dissolved Solids | | 10.0 | 10.0 | | mg/L | 0.0 | 400 | 28-SEP-11 |
| WG1357759-5 | DUP | L1061337-2 | | | | | | |
| Total Dissolved Solids | | 18.0 | 16.0 | | mg/L | 12 | 400 | 28-SEP-11 |
| WG1357759-7 | DUP | L1064352-1 | | | | | | |
| Total Dissolved Solids | | 1480 | 1510 | | mg/L | 2.0 | 20 | 28-SEP-11 |
| WG1357759-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <5.0 | | mg/L | | 5 | 28-SEP-11 |



Quality Control Report

Workorder: L1060067

Report Date: 06-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| SOLIDS-TOTSUS-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2260332 | | | | | | | |
| WG1357759-2 | CVS | | | | | | | |
| Total Suspended Solids | | | 96 | | % | | 85-115 | 28-SEP-11 |
| WG1357759-6 | DUP | L1063827-1 | | | | | | |
| Total Suspended Solids | | 90.0 | 85.0 | | mg/L | 5.7 | 20 | 28-SEP-11 |
| WG1357759-7 | DUP | L1064352-1 | | | | | | |
| Total Suspended Solids | | 330 | 320 | | mg/L | 3.1 | 20 | 28-SEP-11 |
| WG1357759-1 | MB | | | | | | | |
| Total Suspended Solids | | | <5.0 | | mg/L | | 5 | 28-SEP-11 |
| TURBIDITY-WP | | | | | | | | |
| | Water | | | | | | | |
| Batch | R2255191 | | | | | | | |
| WG1353067-3 | DUP | L1060067-2 | | | | | | |
| Turbidity | | <0.10 | <0.10 | RPD-NA | NTU | N/A | 15 | 20-SEP-11 |
| WG1353067-2 | LCS | | | | | | | |
| Turbidity | | | 98 | | % | | 85-115 | 20-SEP-11 |
| WG1353067-1 | MB | | | | | | | |
| Turbidity | | | <0.10 | | NTU | | 0.1 | 20-SEP-11 |

Quality Control Report

Workorder: L1060067

Report Date: 06-OCT-11

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

Page 17 of 19

Contact: Clifton Samoiloff

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|--|
| DLA | Detection Limit Adjusted For required dilution |
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L1060067

Report Date: 06-OCT-11

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

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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 | 17-SEP-11 10:12 | 28-SEP-11 10:40 | 7 | 11 | days | EHT |
| | 2 | 17-SEP-11 12:00 | 28-SEP-11 10:40 | 7 | 11 | days | EHT |
| Total Suspended Solids | 1 | 17-SEP-11 10:12 | 28-SEP-11 10:40 | 7 | 11 | days | EHT |
| | 2 | 17-SEP-11 12:00 | 28-SEP-11 10:40 | 7 | 11 | days | EHT |
| Turbidity | 1 | 17-SEP-11 10:12 | 20-SEP-11 09:00 | 48 | 71 | hours | EHTL |
| | 2 | 17-SEP-11 12:00 | 20-SEP-11 09:00 | 48 | 69 | hours | EHTL |
| pH | 1 | 17-SEP-11 10:12 | 19-SEP-11 14:58 | 0.25 | 53 | hours | EHTR-FM |
| | 2 | 17-SEP-11 12:00 | 19-SEP-11 14:58 | 0.25 | 51 | hours | EHTR-FM |
| Anions and Nutrients | | | | | | | |
| Bromide | 1 | 17-SEP-11 10:12 | 19-SEP-11 14:41 | 48 | 53 | hours | EHTL |
| | 2 | 17-SEP-11 12:00 | 19-SEP-11 14:41 | 48 | 51 | hours | EHTL |
| Colour, True | 1 | 17-SEP-11 10:12 | 19-SEP-11 16:44 | 48 | 54 | hours | EHTL |
| | 2 | 17-SEP-11 12:00 | 19-SEP-11 16:44 | 48 | 53 | hours | EHTL |
| Nitrate as N | 1 | 17-SEP-11 10:12 | 19-SEP-11 14:41 | 48 | 53 | hours | EHTL |
| | 2 | 17-SEP-11 12:00 | 19-SEP-11 14:41 | 48 | 51 | hours | EHTL |
| Nitrite as N | 1 | 17-SEP-11 10:12 | 19-SEP-11 14:41 | 48 | 53 | hours | EHTL |
| | 2 | 17-SEP-11 12:00 | 19-SEP-11 14:41 | 48 | 51 | hours | EHTL |
| Phosphorus, Total | 1 | 17-SEP-11 10:12 | 19-SEP-11 17:44 | 48 | 55 | hours | EHTL |
| | 2 | 17-SEP-11 12:00 | 19-SEP-11 17:44 | 48 | 54 | hours | EHTL |

Legend & Qualifier Definitions:

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

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 L1060067 were received on 19-SEP-11 08:30.

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

Quality Control Report

Workorder: L1060067

Report Date: 06-OCT-11

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

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Contact: Clifton Samoiloff

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.



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

Date Received: 19-SEP-11
Report Date: 23-DEC-11 12:22 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1060330
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483-300
C of C Numbers:
Legal Site Desc:

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
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|---------------|------------|------|-------|-----------|-----------|----------|
| L1060330-1 ARL-01 (PHYTO) Sampled By: CLIENT on 14-SEP-11 @ 14:15 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes | See attached. | | | | 15-DEC-11 | 15-DEC-11 | R2301756 |
| L1060330-2 UL1-01 (PHYTO) Sampled By: CLIENT on 14-SEP-11 @ 14:15 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes | See attached. | | | | 15-DEC-11 | 15-DEC-11 | R2301756 |
| L1060330-3 NTL-01 (PHYTO) Sampled By: CLIENT on 14-SEP-11 @ 14:15 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes | See attached. | | | | 15-DEC-11 | 15-DEC-11 | R2301756 |
| L1060330-4 GSL-01 (PHYTO) Sampled By: CLIENT on 14-SEP-11 @ 09:50 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes | See attached. | | | | 15-DEC-11 | 15-DEC-11 | R2301756 |
| L1060330-5 THL-01 (PHYTO) Sampled By: CLIENT on 15-SEP-11 @ 09:25 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes | See attached. | | | | 15-DEC-11 | 15-DEC-11 | R2301756 |
| L1060330-6 ANB-06 (PHYTO) Sampled By: CLIENT on 16-SEP-11 @ 14:13 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes | See attached. | | | | 15-DEC-11 | 15-DEC-11 | R2301756 |
| L1060330-7 ARL-01 (ZOOPL) Sampled By: CLIENT on 14-SEP-11 @ 14:15 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes | See attached. | | | | 23-DEC-11 | 23-DEC-11 | R2305768 |
| L1060330-8 UL1-01 (ZOOPL) Sampled By: CLIENT on 14-SEP-11 @ 14:15 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes | See attached. | | | | 23-DEC-11 | 23-DEC-11 | R2305768 |
| L1060330-9 NTL-01 (ZOOPL) Sampled By: CLIENT on 14-SEP-11 @ 14:15 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes | See attached. | | | | 23-DEC-11 | 23-DEC-11 | R2305768 |
| L1060330-10 GSL-01 (ZOOPL) Sampled By: CLIENT on 14-SEP-11 @ 09:50 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes | See attached. | | | | 23-DEC-11 | 23-DEC-11 | R2305768 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|---------------|------------|------|-------|-----------|-----------|----------|
| L1060330-11 THL-01 (ZOO) Sampled By: CLIENT on 15-SEP-11 @ 09:25 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes | See attached. | | | | 23-DEC-11 | 23-DEC-11 | R2305768 |
| L1060330-12 ANB-06 (ZOO) Sampled By: CLIENT on 16-SEP-11 @ 14:13 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes | See attached. | | | | 23-DEC-11 | 23-DEC-11 | R2305768 |
| | | | | | | | |

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

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|--------------------------|------------------------------|
| PHYTO-BIO-WP | Water | Phytoplankton Biovolumes | Standard Methods 10200, 1998 |

This procedure is applicable to the identification and enumeration of microscopic organisms occurring within samples of fresh water. Samples are prepared using a sedimentation technique, and are then examined using a compound phase contrast inverted microscope. Both phytoplankton and zooplankton are identified to species where possible, enumerated and reported.

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1060330

Report Date: 23-DEC-11

Page 1 of 2

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|

Quality Control Report

Workorder: L1060330

Report Date: 23-DEC-11

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

Page 2 of 2

Contact: Clifton Samoiloff

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

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

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

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



ALS Laboratory Group
Manitoba Technology Centre
12-1329 Niakwa Road E
Winnipeg, Manitoba R2J 3T4
(204) 255-9720

Phytoplankton Sample Results

Lab Number: L1060330-1 **Work Order:** L1060330

Date Sampled: September 14, 2011 **Submitter:**

Source: ARL-01 (PHYTO) **WQNum**

Sample Type WATER

| Class | Genus | Species | Number of Cells per litre | Unit Biovolume μ3 | Total Biovolume μ3 |
|-------------------|---------------------------|------------------|----------------------------------|---|--|
| Bacillariophyceae | <i>Cymbella</i> | sp. | 6200 | 3500 | 21700000 |
| Bacillariophyceae | <i>Gomphonema</i> | sp. | 1000 | 6000 | 6000000 |
| Bacillariophyceae | <i>Navicula</i> | sp. | 6200 | 4000 | 24800000 |
| Bacillariophyceae | <i>Nitzschia</i> | sp. | 3000 | 540 | 1620000 |
| Chlorophyceae | <i>Botryococcus</i> | sp. | 2000 | 125000 | 250000000 |
| Chlorophyceae | <i>Elakatothrix</i> | sp. | 6200 | 180 | 1116000 |
| Chlorophyceae | <i>Euastrum</i> | sp. | 1000 | 12000 | 12000000 |
| Chlorophyceae | <i>Monoraphidium</i> | sp. | 12400 | 120 | 1488000 |
| Chlorophyceae | <i>Pediastrum</i> | tetras | 2000 | 900 | 1800000 |
| Chlorophyceae | <i>Scenedesmus</i> | sp. | 37200 | 160 | 5952000 |
| Chlorophyceae | <i>Spirogyra</i> | sp. | 1000 | 450000 | 450000000 |
| Chlorophyceae | <i>Spondylosium</i> | sp. | 1000 | 1600 | 1600000 |
| Chlorophyceae | <i>Tetraedron</i> | <i>caudatum</i> | 18600 | 128 | 2380800 |
| Chlorophyceae | <i>Tetraedron</i> | sp. | 24800 | 512 | 12697600 |
| Chrysophyceae | <i>Bitrichia</i> | sp. | 24800 | 360 | 8928000 |
| Chrysophyceae | <i>Dinobryon</i> | <i>bavaricum</i> | 6200 | 540 | 3348000 |
| Chrysophyceae | <i>Dinobryon</i> | sp. | 24800 | 540 | 13392000 |
| Chrysophyceae | <i>small chrysophytes</i> | | 7104000 | 64 | 454656000 |
| Cryptophyceae | <i>Cryptomonas</i> | sp. | 43400 | 12000 | 520800000 |

Date Printed: December 15, 2011

Lab Number: L1060330-1 **Work Order: L1060330**

September 14, 2011

Submitter:

ARL-01 (PHYTO)

WQNum

Sample Type WATER

| Class | Genus | Species | Number of Cells per litre | Unit Biovolume µ3 | Total Biovolume µ3 |
|-------------------|-----------------------|------------|---------------------------|-------------------|--------------------|
| Cyanophyceae | <i>Aphanocapsa</i> | <i>sp.</i> | 2000 | 27000 | 54000000 |
| Cyanophyceae | <i>Chroococcus</i> | <i>sp.</i> | 8000 | 216 | 1728000 |
| Cyanophyceae | <i>Gomphosphaeria</i> | <i>sp.</i> | 1000 | 27000 | 27000000 |
| Cyanophyceae | <i>Planktolyngbya</i> | <i>sp.</i> | 4000 | 480 | 1920000 |
| Cyanophyceae | <i>Planktothrix</i> | <i>sp.</i> | 1000 | 4800 | 4800000 |
| Cyanophyceae | <i>Pseudanabaena</i> | <i>sp.</i> | 12400 | 360 | 4464000 |
| Cyanophyceae | <i>Spirulina</i> | <i>sp.</i> | 6200 | 1080 | 6696000 |
| Dinophyceae | <i>Gymnodinium</i> | <i>sp.</i> | 6200 | 6000 | 37200000 |
| Fragilariophyceae | <i>Synedra</i> | <i>sp.</i> | 6200 | 540 | 3348000 |
| Fragilariophyceae | <i>Tabellaria</i> | <i>sp.</i> | 1000 | 1200 | 1200000 |



ALS Laboratories
 Manitoba Technology Centre
 1329 Niakwa RD E - Unit 12
 Winnipeg, Manitoba R2J 3T4
 (204) 255-9720

Zooplankton Sample Results

Lab Number: L1060330-10 **Work Order: L1060330**

Date Sampled: September 14, 2011
Source: GSL-01

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 1

| Phylum | Class | Order | Family | Genus | Species | Total No. per Sample | Average Biovolume μ^3 | Biovolume per Sample μ^3 |
|-----------|--------------|-----------------|---------------|-----------------------|-------------------|----------------------|---------------------------|------------------------------|
| Crustacea | Branchiopoda | Cladocera | Bosminidae | <i>Bosmina</i> | sp. | 300 | 2.07E+07 | 6.22E+09 |
| Protozoa | Ciliata | Peritrichida | Epistylidae | <i>Epistylis</i> | sp. | 600 | 9.60E+04 | 5.76E+07 |
| Protozoa | Ciliata | Peritrichida | Vorticellidae | <i>Vorticella</i> | sp. | 58200 | 6.40E+04 | 3.72E+09 |
| Crustacea | Copepoda | Calanoidea | Diaptomidae | <i>Diaptomus</i> | sp. | 100 | 4.15E+07 | 4.15E+09 |
| Crustacea | Copepoda | Copepoda | | <i>Nauplii</i> | | 700 | 4.32E+05 | 3.02E+08 |
| Crustacea | Copepoda | Cyclopoida | | <i>To young to ID</i> | | 100 | 5.40E+06 | 5.40E+08 |
| Protozoa | Lobosa | Arcellinida | Diffugiidae | <i>Diffugia</i> | sp. | 100 | 1.73E+06 | 1.73E+08 |
| Rotifera | Monogononta | Ploima | Asplanchnidae | <i>Asplanchna</i> | sp. | 1000 | 4.32E+07 | 4.32E+10 |
| Rotifera | Monogononta | Collothecaceae | Collothecidae | <i>Collotheca</i> | sp. | 800 | 8.10E+04 | 6.48E+07 |
| Rotifera | Monogononta | Flosculariaceae | Conochilidae | <i>Conochilus</i> | sp. | 6400 | 3.24E+05 | 2.07E+09 |
| Rotifera | Monogononta | Ploima | Gastropodidae | <i>Gastropus</i> | sp. | 3000 | 5.76E+05 | 1.73E+09 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Kellicottia</i> | <i>longispina</i> | 17800 | 6.48E+05 | 1.15E+10 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Keratella</i> | sp. | 80200 | 3.24E+05 | 2.60E+10 |
| Rotifera | Monogononta | Ploima | Synchaetidae | <i>Polyarthra</i> | sp. | 6000 | 3.24E+05 | 1.94E+09 |

Date Printed: December 23, 2011



ALS Laboratories
 Manitoba Technology Centre
 1329 Niakwa RD E - Unit 12
 Winnipeg, Manitoba R2J 3T4
 (204) 255-9720

Zooplankton Sample Results

Lab Number: L1060330-11 **Work Order: L1060330**

Date Sampled: September 15, 2011
 THL-01

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 1

| Phylum | Class | Order | Family | Genus | Species | Total No. per Sample | Average Biovolume μ^3 | Biovolume per Sample μ^3 |
|-----------|--------------|-----------------|------------------|------------------------|-------------------|----------------------|---------------------------|------------------------------|
| Crustacea | Branchiopoda | Cladocera | Bosminidae | <i>Bosmina</i> | sp. | 200 | 2.07E+07 | 4.15E+09 |
| Crustacea | Branchiopoda | Cladocera | Holopediidae | <i>Holopedium</i> | sp. | 200 | 3.78E+06 | 7.56E+08 |
| Protozoa | Ciliata | Holotrichida | Tracheliidae | <i>Trachelius</i> | sp. | 600 | 1.70E+06 | 1.02E+09 |
| Protozoa | Ciliata | Peritrichida | Vorticellidae | <i>Vorticella</i> | sp. | 24000 | 6.40E+04 | 1.54E+09 |
| Crustacea | Copepoda | Calanoida | Diaptomidae | <i>Diaptomus</i> | sp. | 100 | 4.15E+07 | 4.15E+09 |
| Crustacea | Copepoda | Copepoda | | <i>Nauplii</i> | | 3200 | 4.32E+05 | 1.38E+09 |
| Crustacea | Copepoda | Cyclopoida | | <i>To young to ID</i> | | 100 | 5.40E+06 | 5.40E+08 |
| Protozoa | Heliozoa | Actinophryida | Actinosphaeridae | <i>Actinosphaerium</i> | sp. | 100 | 7.29E+05 | 7.29E+07 |
| Rotifera | Monogononta | Ploima | Gastropodidae | <i>Ascomorpha</i> | sp. | 200 | 2.88E+05 | 5.76E+07 |
| Rotifera | Monogononta | Ploima | Asplanchnidae | <i>Asplanchna</i> | sp. | 3600 | 4.32E+07 | 1.56E+11 |
| Rotifera | Monogononta | Collothecaceae | Collothecidae | <i>Collotheca</i> | sp. | 2400 | 8.10E+04 | 1.94E+08 |
| Rotifera | Monogononta | Flosculariaceae | Conochilidae | <i>Conochilus</i> | sp. | 7000 | 3.24E+05 | 2.27E+09 |
| Rotifera | Monogononta | Ploima | Gastropodidae | <i>Gastropus</i> | sp. | 200 | 5.76E+05 | 1.15E+08 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Kellicottia</i> | <i>longispina</i> | 40600 | 6.48E+05 | 2.63E+10 |

Date Printed: December 23, 2011



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Zooplankton Sample Results

Lab Number: L1060330-11

Work Order: L1060330

Date Sampled: September 15, 2011
 THL-01

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 1

| Phylum | Class | Order | Family | Genus | Species | Total No. per Sample | Average Biovolume μ^3 | Biovolume μ^3 per Sample |
|----------|-------------|--------|----------------|--------------------|---------|----------------------|---------------------------|------------------------------|
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Keratella</i> | sp. | 10800 | 3.24E+05 | 3.50E+09 |
| Rotifera | Monogononta | Ploima | Lecanidae | <i>Monostyla</i> | sp. | 300 | 8.64E+05 | 2.59E+08 |
| Rotifera | Monogononta | Ploima | Synchaetidae | <i>Polyarthra</i> | sp. | 2400 | 3.24E+05 | 7.78E+08 |
| Rotifera | Monogononta | Ploima | Synchaetidae | <i>Synchaeta</i> | sp. | 100 | 1.22E+06 | 1.22E+08 |
| Rotifera | Monogononta | Ploima | Trichocercidae | <i>Trichocerca</i> | sp. | 200 | 1.94E+06 | 3.89E+08 |



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Zooplankton Sample Results

Lab Number: L1060330-12 **Work Order: L1060330**

Date Sampled: September 16, 2011
Source: ANB-06

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 1

| Phylum | Class | Order | Family | Genus | Species | Total No. per Sample | Average Biovolume μm^3 | Biovolume per Sample μm^3 |
|-----------|--------------|---------------|---------------|----------------|---------|----------------------|-----------------------------------|--------------------------------------|
| Rotifera | | | | Unidentified | | 100 | 3.24E+05 | 3.24E+07 |
| Crustacea | Branchiopoda | Cladocera | Bosminidae | Bosmina | sp. | 4600 | 2.07E+07 | 9.54E+10 |
| Crustacea | Branchiopoda | Cladocera | Chydoridae | Chydorus | sp. | 700 | 8.64E+06 | 6.05E+09 |
| Protozoa | Ciliata | Spirotrichida | Codonellidae | Codonella | sp. | 600 | 1.22E+05 | 7.29E+07 |
| Protozoa | Ciliata | Peritrichida | Epistylidae | Epistylis | sp. | 14000 | 9.60E+04 | 1.34E+09 |
| Protozoa | Ciliata | Peritrichida | Vorticellidae | Vorticella | sp. | 5200 | 6.40E+04 | 3.33E+08 |
| Crustacea | Copepoda | Cyclopoida | Cyclopidae | Cyclops | sp. | 300 | 2.30E+07 | 6.91E+09 |
| Crustacea | Copepoda | Cyclopoida | Cyclopidae | Damaged | | 100 | 1.49E+07 | 1.49E+09 |
| Crustacea | Copepoda | Calanoida | Diaptomidae | Diaptomus | sp. | 100 | 4.15E+07 | 4.15E+09 |
| Crustacea | Copepoda | | | Nauplii | | 1200 | 4.32E+05 | 5.18E+08 |
| Crustacea | Copepoda | Cyclopoida | | To young to ID | | 500 | 5.40E+06 | 2.70E+09 |
| Rotifera | Monogononta | Ploima | Gastropodidae | Ascomorpha | sp. | 200 | 2.88E+05 | 5.76E+07 |
| Rotifera | Monogononta | Ploima | Asplanchnidae | Asplanchna | sp. | 300 | 4.32E+07 | 1.30E+10 |
| Rotifera | Monogononta | Collotheceae | Collotheceae | Collotheca | sp. | 100 | 8.10E+04 | 8.10E+06 |



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Zooplankton Sample Results

Lab Number: L1060330-12 **Work Order: L1060330**

Date Sampled: September 16, 2011

Source: ANB-06

Submitter:

Sample ID:

Volume Decanted (mL): 100

Volume analyzed (mL): 1

| Phylum | Class | Order | Family | Genus | Species | Total No. per Sample | Average Biovolume μm^3 | Biovolume μm^3 per Sample |
|----------|-------------|-----------------|----------------|--------------------|-------------------|----------------------|-----------------------------------|--------------------------------------|
| Rotifera | Monogononta | Flosculariaceae | Conochilidae | <i>Conochilus</i> | <i>sp.</i> | 4600 | 3.24E+05 | 1.49E+09 |
| Rotifera | Monogononta | Ploima | Gastropodidae | <i>Gastropus</i> | <i>sp.</i> | 200 | 5.76E+05 | 1.15E+08 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Kellicottia</i> | <i>longispina</i> | 3400 | 6.48E+05 | 2.20E+09 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Keratella</i> | <i>sp.</i> | 42600 | 3.24E+05 | 1.38E+10 |
| Rotifera | Monogononta | Ploima | Synchaetidae | <i>Polyarthra</i> | <i>sp.</i> | 7200 | 3.24E+05 | 2.33E+09 |
| Rotifera | Monogononta | Ploima | Trichocercidae | <i>Trichocerca</i> | <i>sp.</i> | 100 | 3.60E+06 | 3.60E+08 |



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Phytoplankton Sample Results

Lab Number: L1060330-2 **Work Order:** L1060330

Date Sampled: September 14, 2011 **Submitter:**
Source: UL1-01 (PHYTO) **WQNum**

| | Sample Type | | WATER | | |
|-------------------|----------------------------|----------------|----------------------------------|--------------------------|---------------------------|
| Class | Genus | Species | Number of Cells per litre | Unit Biovolume µ3 | Total Biovolume µ3 |
| Bacillariophyceae | <i>Cymbella</i> | sp. | 1000 | 3500 | 3500000 |
| Bacillariophyceae | <i>Navicula</i> | sp. | 6200 | 4000 | 24800000 |
| Bacillariophyceae | <i>Nitzschia</i> | sp. | 6200 | 540 | 3348000 |
| Bacillariophyceae | <i>Rhoicosphenia</i> | sp. | 6200 | 240 | 1488000 |
| Chlorophyceae | <i>Botryococcus</i> | sp. | 18600 | 8000 | 148800000 |
| Chlorophyceae | <i>Elakatothrix</i> | sp. | 142600 | 180 | 25668000 |
| Chlorophyceae | <i>Monoraphidium</i> | sp. | 37200 | 120 | 4464000 |
| Chlorophyceae | <i>Oocystis</i> | sp. | 6200 | 1500 | 9300000 |
| Chlorophyceae | <i>Pediastrum</i> | tetras | 12400 | 900 | 11160000 |
| Chlorophyceae | <i>Planktosphaeria</i> | sp. | 24800 | 1000 | 24800000 |
| Chlorophyceae | <i>Quadrigula</i> | sp. | 18000 | 180 | 3240000 |
| Chlorophyceae | <i>Scenedesmus</i> | sp. | 322400 | 160 | 51584000 |
| Chlorophyceae | <i>Tetraedron</i> | minimum | 12400 | 256 | 3174400 |
| Chrysoophyceae | <i>Bitrichia</i> | sp. | 74400 | 360 | 26784000 |
| Chrysoophyceae | <i>Dinobryon</i> | bavaricum | 93000 | 540 | 50220000 |
| Chrysoophyceae | <i>Dinobryon</i> | sp. | 99200 | 540 | 53568000 |
| Chrysoophyceae | <i>small chrysoophytes</i> | | 12192000 | 64 | 780288000 |
| Cryptophyceae | <i>Cryptomonas</i> | sp. | 62000 | 12000 | 744000000 |
| Cyanophyceae | <i>Aphanocapsa</i> | sp. | 18600 | 27000 | 502200000 |

Date Printed: December 15, 2011

Lab Number: L1060330-2 **Work Order: L1060330**

September 14, 2011

Submitter:

UL1-01 (PHYTO)

WQNum

| Source: | | Sample Type | | WATER | |
|-------------------|-----------------------|--------------------|----------------------------------|--------------------------|---------------------------|
| Class | Genus | Species | Number of Cells per litre | Unit Biovolume µ3 | Total Biovolume µ3 |
| Cyanophyceae | <i>Aphanothece</i> | <i>sp.</i> | 18600 | 8000 | 148800000 |
| Cyanophyceae | <i>Chroococcus</i> | <i>sp.</i> | 49600 | 216 | 10713600 |
| Cyanophyceae | <i>Gomphosphaeria</i> | <i>sp.</i> | 55800 | 27000 | 1506600000 |
| Cyanophyceae | <i>Merismopedia</i> | <i>sp.</i> | 9984000 | 8 | 79872000 |
| Cyanophyceae | <i>Microcystis</i> | <i>sp.</i> | 3000 | 216000 | 648000000 |
| Cyanophyceae | <i>Planktolyngbya</i> | <i>sp.</i> | 1056000 | 240 | 253440000 |
| Cyanophyceae | <i>Planktothrix</i> | <i>sp.</i> | 1000 | 9600 | 9600000 |
| Cyanophyceae | <i>Pseudanabaena</i> | <i>sp.</i> | 49600 | 360 | 17856000 |
| Dinophyceae | <i>Gymnodinium</i> | <i>sp.</i> | 12400 | 10000 | 124000000 |
| Dinophyceae | <i>Peridinium</i> | <i>sp.</i> | 1000 | 181500 | 181500000 |
| Euglenophyceae | <i>Euglena</i> | <i>sp.</i> | 1000 | 11250 | 11250000 |
| Fragilariophyceae | <i>Synedra</i> | <i>sp.</i> | 1000 | 540 | 540000 |



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Phytoplankton Sample Results

Lab Number: L1060330-3 **Work Order:** L1060330

Date Sampled: September 14, 2011 **Submitter:**

Source: NTL-01 (PHYTO) **WQNum**

Sample Type WATER

| Class | Genus | Species | Number of Cells per litre | Unit Biovolume μ3 | Total Biovolume μ3 |
|-------------------|------------------------|----------------|----------------------------------|---|--|
| Bacillariophyceae | <i>Cocconeis</i> | sp. | 1000 | 4500 | 4500000 |
| Bacillariophyceae | <i>Navicula</i> | sp. | 6000 | 4000 | 24000000 |
| Bacillariophyceae | <i>Nitzschia</i> | sp. | 6200 | 540 | 3348000 |
| Chlorophyceae | <i>Botryococcus</i> | sp. | 7000 | 216000 | 1512000000 |
| Chlorophyceae | <i>Cosmarium</i> | sp. | 2000 | 4000 | 8000000 |
| Chlorophyceae | <i>Crucigenia</i> | sp. | 72000 | 36 | 2592000 |
| Chlorophyceae | <i>Crucigenia</i> | tetrapedia | 74400 | 36 | 2678400 |
| Chlorophyceae | <i>Dictyosphaerium</i> | sp. | 6200 | 8000 | 49600000 |
| Chlorophyceae | <i>Elakatothrix</i> | sp. | 9000 | 180 | 1620000 |
| Chlorophyceae | <i>Monoraphidium</i> | sp. | 2000 | 120 | 240000 |
| Chlorophyceae | <i>Oocystis</i> | sp. | 6200 | 1500 | 9300000 |
| Chlorophyceae | <i>Pediastrum</i> | tetras | 6200 | 900 | 5580000 |
| Chlorophyceae | <i>Planktosphaeria</i> | sp. | 1000 | 3375 | 3375000 |
| Chlorophyceae | <i>Scenedesmus</i> | arcuatus | 16000 | 160 | 2560000 |
| Chlorophyceae | <i>Scenedesmus</i> | quadricauda | 74400 | 160 | 11904000 |
| Chlorophyceae | <i>Scenedesmus</i> | sp. | 322400 | 160 | 51584000 |
| Chlorophyceae | <i>Scenedesmus</i> | spinosus | 24800 | 160 | 3968000 |
| Chlorophyceae | <i>Spondylosium</i> | sp. | 1000 | 1600 | 1600000 |
| Chlorophyceae | <i>Tetraedron</i> | minimum | 6200 | 256 | 1587200 |

Date Printed: December 15, 2011

Lab Number: L1060330-3 **Work Order: L1060330**

September 14, 2011

Submitter:

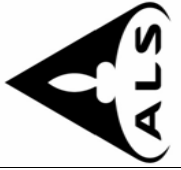
NTL-01 (PHYTO)

WQNum

Sample Type

WATER

| Class | Genus | Species | Number of Cells per litre | Unit Biovolume µ3 | Total Biovolume µ3 |
|---------------|---------------------------|------------------|----------------------------------|--------------------------|---------------------------|
| Chlorophyceae | <i>Tetraedron</i> | <i>sp.</i> | 6200 | 512 | 3174400 |
| Chrysophyceae | <i>Dinobryon</i> | <i>bavaricum</i> | 130200 | 540 | 70308000 |
| Chrysophyceae | <i>Dinobryon</i> | <i>sp.</i> | 18600 | 540 | 10044000 |
| Chrysophyceae | <i>small chrysophytes</i> | | 9504000 | 64 | 608256000 |
| Cryptophyceae | <i>Cryptomonas</i> | <i>sp.</i> | 198400 | 12000 | 2380800000 |
| Cyanophyceae | <i>Anabaena</i> | <i>sp.</i> | 6200 | 4320 | 26784000 |
| Cyanophyceae | <i>Aphanocapsa</i> | <i>sp.</i> | 6200 | 125000 | 775000000 |
| Cyanophyceae | <i>Aphanothece</i> | <i>sp.</i> | 12400 | 27000 | 334800000 |
| Cyanophyceae | <i>Chroococcus</i> | <i>sp.</i> | 29000 | 27000 | 783000000 |
| Cyanophyceae | <i>Gomphosphaeria</i> | <i>sp.</i> | 18600 | 27000 | 502200000 |
| Cyanophyceae | <i>Merismopedia</i> | <i>sp.</i> | 4608000 | 8 | 36864000 |
| Cyanophyceae | <i>Microcystis</i> | <i>sp.</i> | 3000 | 216000 | 648000000 |
| Cyanophyceae | <i>Planktolyngbya</i> | <i>sp.</i> | 6200 | 240 | 1488000 |
| Cyanophyceae | <i>Pseudanabaena</i> | <i>sp.</i> | 6200 | 360 | 2232000 |
| Dinophyceae | <i>Gymnodinium</i> | <i>sp.</i> | 12400 | 49000 | 607600000 |



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Phytoplankton Sample Results

Lab Number: L1060330-4 **Work Order:** L1060330

Date Sampled: September 14, 2011 **Submitter:**

Source: GSL-01 (PHYTO) **WQNum**

Sample Type WATER

| Class | Genus | Species | Number of Cells per litre | Unit Biovolume µ3 | Total Biovolume µ3 |
|---------------------|---------------------------|------------------|----------------------------------|--------------------------|---------------------------|
| Bacillariophyceae | <i>Cymbella</i> | sp. | 1000 | 4000 | 4000000 |
| Bacillariophyceae | <i>Navicula</i> | sp. | 12400 | 4000 | 49600000 |
| Bacillariophyceae | <i>Nitzschia</i> | <i>sigmoidea</i> | 1000 | 4680 | 4680000 |
| Bacillariophyceae | <i>Nitzschia</i> | sp. | 6200 | 540 | 3348000 |
| Chlorophyceae | <i>Elakatothrix</i> | sp. | 18600 | 180 | 3348000 |
| Chlorophyceae | <i>Monoraphidium</i> | sp. | 24800 | 120 | 2976000 |
| Chlorophyceae | <i>Scenedesmus</i> | sp. | 24800 | 160 | 3968000 |
| Chrysophyceae | <i>Dinobryon</i> | sp. | 43400 | 540 | 23436000 |
| Chrysophyceae | <i>small chrysophytes</i> | | 6240000 | 64 | 399360000 |
| Coccinodiscophyceae | <i>Rhizosolenia</i> | sp. | 6200 | 96 | 595200 |
| Cryptophyceae | <i>Cryptomonas</i> | sp. | 62000 | 12000 | 744000000 |
| Cyanophyceae | <i>Gomphosphaeria</i> | sp. | 6200 | 27000 | 167400000 |
| Cyanophyceae | <i>Merismopedia</i> | sp. | 32000 | 8 | 256000 |
| Cyanophyceae | <i>Planktolyngbya</i> | sp. | 12400 | 240 | 2976000 |
| Cyanophyceae | <i>Pseudanabaena</i> | sp. | 18600 | 360 | 6696000 |
| Dinophyceae | <i>Gymnodinium</i> | sp. | 31000 | 18750 | 581250000 |
| Euglenophyceae | <i>Trachelomonas</i> | sp. | 1000 | 12000 | 12000000 |
| Fragilariophyceae | <i>Synedra</i> | sp. | 12400 | 540 | 6696000 |

Date Printed: December 15, 2011



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Phytoplankton Sample Results

Lab Number: L1060330-5 **Work Order:** L1060330

Date Sampled: September 15, 2011 **Submitter:**

Source: THL-01 (PHYTO) **WQNum**

Sample Type WATER

| Class | Genus | Species | Number of Cells per litre | Unit Biovolume μ^3 | Total Biovolume μ^3 |
|-------------------|---------------------------|------------------|----------------------------------|--|---|
| Bacillariophyceae | <i>Navicula</i> | <i>sp.</i> | 10000 | 4000 | 40000000 |
| Chlorophyceae | <i>Arthrodesmus</i> | <i>sp.</i> | 6200 | 1350 | 8370000 |
| Chlorophyceae | <i>Botryococcus</i> | <i>sp.</i> | 1000 | 64000 | 64000000 |
| Chlorophyceae | <i>Elakatothrix</i> | <i>sp.</i> | 6200 | 180 | 1116000 |
| Chlorophyceae | <i>Monoraphidium</i> | <i>sp.</i> | 130200 | 120 | 15624000 |
| Chlorophyceae | <i>Planktosphaeria</i> | <i>sp.</i> | 12400 | 8000 | 99200000 |
| Chlorophyceae | <i>Scenedesmus</i> | <i>sp.</i> | 4000 | 160 | 640000 |
| Chlorophyceae | <i>Staurastrum</i> | <i>sp.</i> | 1000 | 4500 | 4500000 |
| Chlorophyceae | <i>Tetraedron</i> | <i>minimum</i> | 18600 | 256 | 4761600 |
| Chrysophyceae | <i>Bitrichia</i> | <i>sp.</i> | 12400 | 128 | 1587200 |
| Chrysophyceae | <i>Dinobryon</i> | <i>bavaricum</i> | 86800 | 540 | 46872000 |
| Chrysophyceae | <i>Dinobryon</i> | <i>sp.</i> | 12400 | 540 | 6696000 |
| Chrysophyceae | <i>Mallomonas</i> | <i>sp.</i> | 12400 | 1280 | 15872000 |
| Chrysophyceae | <i>small chrysophytes</i> | | 16320000 | 64 | 1044480000 |
| Cryptophyceae | <i>Cryptomonas</i> | <i>sp.</i> | 68200 | 12000 | 818400000 |
| Cyanophyceae | <i>Aphanizomenon</i> | <i>sp.</i> | 1000 | 3840 | 3840000 |
| Cyanophyceae | <i>Aphanocapsa</i> | <i>sp.</i> | 6200 | 64000 | 396800000 |
| Cyanophyceae | <i>Aphanothece</i> | <i>sp.</i> | 12400 | 27000 | 334800000 |
| Cyanophyceae | <i>Gomphosphaeria</i> | <i>sp.</i> | 18600 | 27000 | 502200000 |

Date Printed: December 15, 2011

Lab Number: L1060330-5 **Work Order: L1060330**

Date Sampled: September 15, 2011
THL-01 (PHYTO)

Submitter:
WQNum

Source: **Sample Type** **WATER**

| Class | Genus | Species | Number of Cells per litre | Unit Biovolume µ3 | Total Biovolume µ3 |
|-------------------|-----------------------|----------------|----------------------------------|--------------------------|---------------------------|
| Cyanophyceae | <i>Merismopedia</i> | <i>sp.</i> | 99200 | 8 | 793600 |
| Cyanophyceae | <i>Microcystis</i> | <i>sp.</i> | 12000 | 216000 | 2592000000 |
| Cyanophyceae | <i>Oscillatoria</i> | <i>sp.</i> | 1000 | 12960 | 12960000 |
| Cyanophyceae | <i>Planktolyngbya</i> | <i>sp.</i> | 1248000 | 240 | 299520000 |
| Cyanophyceae | <i>Pseudanabaena</i> | <i>sp.</i> | 31000 | 360 | 11160000 |
| Dinophyceae | <i>Gymnodinium</i> | <i>sp.</i> | 6200 | 18750 | 116250000 |
| Fragilariophyceae | <i>Synedra</i> | <i>sp.</i> | 24800 | 540 | 13392000 |



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Phytoplankton Sample Results

Lab Number: L1060330-6 **Work Order:** L1060330

Date Sampled: September 16, 2011 **Submitter:**

Source: ANB-06 (PHYTO) **WQNum**

Sample Type WATER

| Class | Genus | Species | Number of Cells per litre | Unit Biovolume μ3 | Total Biovolume μ3 |
|---------------------|---------------------------|--------------------|----------------------------------|---|--|
| Bacillariophyceae | <i>Cocconeis</i> | sp. | 6200 | 4500 | 27900000 |
| Bacillariophyceae | <i>Nitzschia</i> | sp. | 18600 | 540 | 10044000 |
| Bacillariophyceae | <i>Surirella</i> | sp. | 1000 | 32000 | 32000000 |
| Chlorophyceae | <i>Closterium</i> | sp. | 1000 | 1920 | 1920000 |
| Chlorophyceae | <i>Elakatothrix</i> | sp. | 1000 | 180 | 180000 |
| Chlorophyceae | <i>Lagerheimia</i> | sp. | 6200 | 128 | 793600 |
| Chlorophyceae | <i>Monoraphidium</i> | sp. | 768000 | 120 | 92160000 |
| Chlorophyceae | <i>Planktosphaeria</i> | sp. | 9000 | 27000 | 243000000 |
| Chlorophyceae | <i>Scenedesmus</i> | <i>quadricauda</i> | 8000 | 160 | 1280000 |
| Chlorophyceae | <i>Staurastrum</i> | sp. | 1000 | 6750 | 6750000 |
| Chlorophyceae | <i>Tetraedron</i> | <i>minimum</i> | 6200 | 256 | 1587200 |
| Chlorophyceae | <i>Tetraedron</i> | <i>trigonum</i> | 1000 | 3750 | 3750000 |
| Chrysophyceae | <i>Dinobryon</i> | <i>bavaricum</i> | 2000 | 540 | 1080000 |
| Chrysophyceae | <i>small chrysophytes</i> | | 3360000 | 64 | 215040000 |
| Coscinodiscophyceae | <i>Cyclotella</i> | sp. | 24800 | 4000 | 99200000 |
| Coscinodiscophyceae | <i>Melosira</i> | sp. | 68200 | 23040 | 1571328000 |
| Coscinodiscophyceae | <i>Stephanodiscus</i> | sp. | 17000 | 108000 | 1836000000 |
| Cryptophyceae | <i>Cryptomonas</i> | sp. | 68200 | 12000 | 818400000 |
| Cyanophyceae | <i>Anabaena</i> | <i>planctonica</i> | 12400 | 15360 | 190464000 |

Date Printed: December 15, 2011

Lab Number: L1060330-6 **Work Order: L1060330**September 16, 2011
ANB-06 (PHYTO)Submitter:
WQNum

| Date Sampled: | | Source: | | Sample Type | | WATER | |
|----------------------|-----------------------|--------------------|----------------------------------|--------------------------|---------------------------|--------------|--|
| Class | Genus | Species | Number of Cells per litre | Unit Biovolume µ3 | Total Biovolume µ3 | | |
| Cyanophyceae | <i>Anabaena</i> | <i>sp.</i> | 74400 | 4320 | 321408000 | | |
| Cyanophyceae | <i>Aphanizomenon</i> | <i>sp.</i> | 1056000 | 3840 | 4055040000 | | |
| Cyanophyceae | <i>Gomphosphaeria</i> | <i>sp.</i> | 6200 | 27000 | 167400000 | | |
| Cyanophyceae | <i>Planktolyngbya</i> | <i>sp.</i> | 1152000 | 240 | 276480000 | | |
| Cyanophyceae | <i>Pseudanabaena</i> | <i>sp.</i> | 480000 | 360 | 172800000 | | |
| Dinophyceae | <i>Ceratium</i> | <i>rhomvoides</i> | 1000 | 96000 | 96000000 | | |
| Dinophyceae | <i>Gymnodinium</i> | <i>sp.</i> | 1000 | 31500 | 31500000 | | |
| Euglenophyceae | <i>Euglena</i> | <i>sp.</i> | 1000 | 10000 | 10000000 | | |
| Euglenophyceae | <i>Trachelomonas</i> | <i>sp.</i> | 1000 | 4500 | 4500000 | | |
| Fragilariophyceae | <i>Asterionella</i> | <i>formosa</i> | 142600 | 810 | 115506000 | | |
| Fragilariophyceae | <i>Fragilaria</i> | <i>crotonensis</i> | 8000 | 1280 | 10240000 | | |
| Fragilariophyceae | <i>Synedra</i> | <i>acus</i> | 1000 | 11250 | 11250000 | | |
| Fragilariophyceae | <i>Synedra</i> | <i>sp.</i> | 6200 | 540 | 3348000 | | |
| Fragilariophyceae | <i>Tabellaria</i> | <i>sp.</i> | 55800 | 2400 | 133920000 | | |



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Zooplankton Sample Results

Lab Number: L1060330-7 **Work Order: L1060330**

Date Sampled: September 14, 2011
Source: ARL-01

Volume Decanted (mL): 100
Volume analyzed (mL): 1

| Phylum | Class | Order | Family | Genus | Species | Total No. per Sample | Average Biovolume μ 3 | Biovolume per Sample μ 3 |
|-----------|--------------|-------|-----------------|---------------------|-------------------|----------------------|---------------------------|------------------------------|
| Rotifera | | | | <i>Unidentified</i> | | 400 | 1.73E+06 | 6.91E+08 |
| Rotifera | Bdelloidea | | Philodinidae | <i>Rotaria</i> | <i>sp.</i> | 100 | 8.64E+05 | 8.64E+07 |
| Crustacea | Branchiopoda | | Bosminidae | <i>Bosmina</i> | <i>sp.</i> | 300 | 2.07E+07 | 6.22E+09 |
| Crustacea | Branchiopoda | | Cladocera | <i>Damaged</i> | | 200 | 9.72E+06 | 1.94E+09 |
| Crustacea | Copepoda | | Calanoida | <i>Diaptomus</i> | <i>sp.</i> | 100 | 1.44E+07 | 1.44E+09 |
| Crustacea | Copepoda | | | <i>Nauplii</i> | | 3200 | 4.32E+05 | 1.38E+09 |
| Rotifera | Monogononta | | Ploima | <i>Asplanchna</i> | <i>sp.</i> | 200 | 2.88E+07 | 5.76E+09 |
| Rotifera | Monogononta | | Collothecaceae | <i>Collotheca</i> | <i>sp.</i> | 500 | 6.48E+05 | 3.24E+08 |
| Rotifera | Monogononta | | Flosculariaceae | <i>Conochilus</i> | <i>sp.</i> | 4700 | 3.24E+05 | 1.52E+09 |
| Rotifera | Monogononta | | Ploima | <i>Gastropus</i> | <i>sp.</i> | 1300 | 5.76E+05 | 7.49E+08 |
| Rotifera | Monogononta | | Brachionidae | <i>Kellicottia</i> | <i>longispina</i> | 6400 | 6.48E+05 | 4.15E+09 |
| Rotifera | Monogononta | | Brachionidae | <i>Keratella</i> | <i>sp.</i> | 20000 | 3.24E+05 | 6.48E+09 |
| Rotifera | Monogononta | | Lecanidae | <i>Monostyla</i> | <i>sp.</i> | 100 | 8.64E+05 | 8.64E+07 |
| Rotifera | Monogononta | | Synchaetidae | <i>Polyarthra</i> | <i>sp.</i> | 700 | 3.24E+05 | 2.27E+08 |

Date Printed: December 23, 2011



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Zooplankton Sample Results

Lab Number: L1060330-7 **Work Order:** L1060330

Date Sampled: September 14, 2011

Source: ARL-01

Submitter:

Sample ID:

Volume Decanted (mL): 100

Volume analyzed (mL): 1

| Phylum | Class | Order | Family | Genus | Species | Total No. per Sample | Average Biovolume per Sample | μ^3 Biovolume per Sample |
|----------|-------------|--------|--------------|------------------|------------|----------------------|------------------------------|------------------------------|
| Rotifera | Monogononta | Ploima | Synchaetidae | <i>Synchaeta</i> | <i>sp.</i> | 400 | 1.22E+06 | 4.86E+08 |



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Zooplankton Sample Results

Lab Number: L1060330-8 **Work Order: L1060330**

Date Sampled: September 14, 2011
Source: UL1-01

Submitter:
Sample ID:

Volume Decanted (mL): 200
Volume analyzed (mL): 10

| Phylum | Class | Order | Family | Genus | Species | Total No. per Sample | Average Biovolume μm^3 | Biovolume per Sample μm^3 |
|------------|--------------|---------------|------------------|------------------------|------------|----------------------|-----------------------------------|--------------------------------------|
| Rotifera | | | | <i>Unidentified</i> | | 320 | 1.73E+06 | 5.53E+08 |
| Crustacea | Branchiopoda | Cladocera | Chydoridae | <i>Alona</i> | <i>sp.</i> | 40 | 1.38E+07 | 5.53E+08 |
| Crustacea | Branchiopoda | Cladocera | Bosminidae | <i>Bosmina</i> | <i>sp.</i> | 20 | 2.07E+07 | 4.15E+08 |
| Crustacea | Branchiopoda | Cladocera | Chydoridae | <i>Chydorus</i> | <i>sp.</i> | 20 | 5.76E+06 | 1.15E+08 |
| Crustacea | Branchiopoda | Cladocera | Daphniidae | <i>Daphnia</i> | <i>sp.</i> | 1860 | 1.23E+08 | 2.29E+11 |
| Crustacea | Branchiopoda | Cladocera | Holopediidae | <i>Holopedium</i> | <i>sp.</i> | 1060 | 3.79E+08 | 4.02E+11 |
| Protozoa | Ciliata | Peritrichida | Vorticellidae | <i>Vorticella</i> | <i>sp.</i> | 38760 | 6.40E+04 | 2.48E+09 |
| Crustacea | Copepoda | | | <i>Nauplii</i> | | 320 | 4.32E+05 | 1.38E+08 |
| Protozoa | Heliozoa | Actinophryida | Actinosphaeridae | <i>Actinosphaerium</i> | <i>sp.</i> | 60 | 6.40E+04 | 3.84E+06 |
| Arthropoda | Insecta | Diptera | Chaoboridae | <i>Chaoborus</i> | <i>sp.</i> | 20 | 6.39E+09 | 1.28E+11 |
| Protozoa | Lobosa | Arcellinida | Diffugiidae | <i>Diffugia</i> | <i>sp.</i> | 240 | 1.73E+06 | 4.15E+08 |
| Rotifera | Monogononta | Ploima | Gastropodidae | <i>Ascomorpha</i> | <i>sp.</i> | 280 | 2.88E+05 | 8.06E+07 |
| Rotifera | Monogononta | Ploima | Asplanchnidae | <i>Asplanchna</i> | <i>sp.</i> | 100 | 1.85E+07 | 1.85E+09 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Brachionus</i> | <i>sp.</i> | 40 | 6.48E+05 | 2.59E+07 |

Date Printed: December 23, 2011



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Zooplankton Sample Results

Lab Number: L1060330-8 **Work Order: L1060330**

Date Sampled: September 14, 2011
Source: UL1-01

Volume Decanted (mL): 200
Volume analyzed (mL): 10

| Phylum | Class | Order | Family | Genus | Species | Total No. per Sample | Average Biovolume μ^3 | Biovolume μ^3 per Sample |
|----------|-------------|-----------------|----------------|--------------------|-------------------|----------------------|---------------------------|------------------------------|
| Rotifera | Monogononta | Collotheceae | Collotheceidae | <i>Collotheca</i> | sp. | 40 | 6.48E+05 | 2.59E+07 |
| Rotifera | Monogononta | Flosculariaceae | Conochilidae | <i>Conochilus</i> | sp. | 360 | 3.24E+05 | 1.17E+08 |
| Rotifera | Monogononta | Ploima | Gastropodidae | <i>Gastropus</i> | sp. | 1360 | 5.76E+05 | 7.83E+08 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Kellicottia</i> | <i>longispina</i> | 360 | 6.48E+05 | 2.33E+08 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Keratella</i> | sp. | 26160 | 3.24E+05 | 8.48E+09 |
| Rotifera | Monogononta | Ploima | Synchaetidae | <i>Polyarthra</i> | sp. | 520 | 3.24E+05 | 1.68E+08 |
| Rotifera | Monogononta | Ploima | Synchaetidae | <i>Synchaeta</i> | sp. | 60 | 1.22E+06 | 7.29E+07 |
| Rotifera | Monogononta | Ploima | Trichotriidae | <i>Trichotria</i> | sp. | 20 | 3.60E+05 | 7.20E+06 |



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Zooplankton Sample Results

Lab Number: L1060330-9 **Work Order: L1060330**

Date Sampled: September 14, 2011
Source: NTL-01

Volume Decanted (mL): 200
Volume analyzed (mL): 10

| Phylum | Class | Order | Family | Genus | Species | Total No. per Sample | Average Biovolume μm^3 | Biovolume per Sample μm^3 |
|-----------|--------------|---------------|------------------|------------------------|------------|----------------------|-----------------------------------|--------------------------------------|
| Rotifera | | | | <i>Unidentified</i> | | 20 | 2.30E+06 | 4.61E+07 |
| Arachnida | Arachnida | Hydracarina | | <i>Unidentified</i> | | 20 | 1.73E+06 | 3.46E+07 |
| Crustacea | Branchiopoda | Cladocera | Bosminiidae | <i>Bosmina</i> | <i>sp.</i> | 1160 | 2.07E+07 | 2.41E+10 |
| Crustacea | Branchiopoda | Cladocera | Daphniidae | <i>Daphnia</i> | <i>sp.</i> | 60 | 1.23E+08 | 7.40E+09 |
| Crustacea | Branchiopoda | Cladocera | Holopediidae | <i>Holopedium</i> | <i>sp.</i> | 360 | 3.79E+08 | 1.37E+11 |
| Protozoa | Ciliata | Peritrichida | Epistylidae | <i>Epistylis</i> | <i>sp.</i> | 6400 | 9.60E+04 | 6.14E+08 |
| Protozoa | Ciliata | Peritrichida | Vorticellidae | <i>Vorticella</i> | <i>sp.</i> | 7720 | 6.40E+04 | 4.94E+08 |
| Crustacea | Copepoda | Cyclopoida | Cyclopidae | <i>Cyclops</i> | <i>sp.</i> | 440 | 1.17E+07 | 5.13E+09 |
| Crustacea | Copepoda | Calanoida | Diaptomidae | <i>Diaptomus</i> | <i>sp.</i> | 3080 | 3.70E+07 | 1.14E+11 |
| Crustacea | Copepoda | Calanoida | Temoridae | <i>Epischura</i> | <i>sp.</i> | 20 | 2.12E+08 | 4.23E+09 |
| Crustacea | Copepoda | | | <i>Nauplii</i> | | 1400 | 4.32E+05 | 6.05E+08 |
| Protozoa | Heliozoa | Actinophryida | Actinosphaeridae | <i>Actinosphaerium</i> | <i>sp.</i> | 60 | 6.40E+04 | 3.84E+06 |
| Rotifera | Monogononta | Ploima | Asplanchnidae | <i>Asplanchna</i> | <i>sp.</i> | 80 | 1.06E+08 | 8.47E+09 |
| Rotifera | Monogononta | Collotheceae | Collotheceidae | <i>Collotheca</i> | <i>sp.</i> | 4880 | 8.10E+04 | 3.95E+08 |

Date Printed: December 23, 2011



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Zooplankton Sample Results

Lab Number: L1060330-9 **Work Order: L1060330**

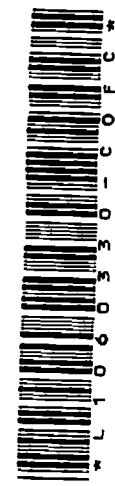
Date Sampled: September 14, 2011
Source: NTL-01

Volume Decanted (mL): 200
Volume analyzed (mL): 10

| Phylum | Class | Order | Family | Genus | Species | Total No. per Sample | Average Biovolume μ^3 | Biovolume per Sample μ^3 |
|----------|-------------|-----------------|---------------|--------------------|-------------------|----------------------|---------------------------|------------------------------|
| Rotifera | Monogononta | Flosculariaceae | Conochilidae | <i>Conochilus</i> | <i>sp.</i> | 4440 | 3.24E+05 | 1.44E+09 |
| Rotifera | Monogononta | Ploima | Gastropodidae | <i>Gastropus</i> | <i>sp.</i> | 20 | 5.76E+05 | 1.15E+07 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Kellicottia</i> | <i>longispina</i> | 11400 | 6.48E+05 | 7.39E+09 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Keratella</i> | <i>sp.</i> | 1080 | 3.24E+05 | 3.50E+08 |
| Rotifera | Monogononta | Ploima | Lecanidae | <i>Monostyla</i> | <i>sp.</i> | 40 | 8.64E+05 | 3.46E+07 |
| Rotifera | Monogononta | Ploima | Synchaetidae | <i>Polyarthra</i> | <i>sp.</i> | 120 | 3.24E+05 | 3.89E+07 |
| Rotifera | Monogononta | Ploima | Synchaetidae | <i>Synchaeta</i> | <i>sp.</i> | 180 | 2.88E+05 | 5.18E+07 |

L1000330

Vertical Request Form
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COC # _____
Page 1 of 1

| | | | |
|--|--|--|--|
| Report To Company: AECOM -W172 Contact: Cliff Samoloff Address: 99 Commerce Dr Phone: _____ Fax: _____ Email 1: cliff.samoloff@aecom.com Email 2: shawna.kjartanson@aecom.com Email 3: mark.hagfield@aecom.com | | Service Requested (Rush for routine analysis subject to availability) <input checked="" type="radio"/> Regular (Standard Turnaround Times - Business Days) <input type="radio"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT | |
| Client / Project Information Job #: 6213483-3000 PO / AFE: _____ LSD: _____ | | Analysis Request Please indicate below Filtered, Preserved or both (F, P, F/P) | |
| ALS Contact ALS Contact: Christine Herrod Date: 14-Sep-11 14:15 Time (hh:mm) | | Number of Containers | |
| Sample Identification (This description will appear on the report) Sample # ARL-01 ULI-01 GLT-01 NTL-01 GSL-01 THL-01 ANB-06 | | Sample Type water Phytoplankton Zooplankton | |
| Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details | | | |
| Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab. Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses. | | | |
| SHIPMENT RELEASE (client use) Released by: _____ Date (dd-mm-yy): _____ Time (hh-m): _____ | | SHIPMENT VERIFICATION (lab use only) Verified by: _____ Date: _____ Time: _____ Observations: Yes / No ? If Yes add SIF | |



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

Date Received: 19-SEP-11
Report Date: 23-DEC-11 12:22 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1060332
Project P.O. #: NOT SUBMITTED
Job Reference: 60212435
C of C Numbers:
Legal Site Desc:

Robert S. Kitlar
Account Manager

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Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|--------------------------|------------------------------|
| PHYTO-BIO-WP | Water | Phytoplankton Biovolumes | Standard Methods 10200, 1998 |

This procedure is applicable to the identification and enumeration of microscopic organisms occurring within samples of fresh water. Samples are prepared using a sedimentation technique, and are then examined using a compound phase contrast inverted microscope. Both phytoplankton and zooplankton are identified to species where possible, enumerated and reported.

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1060332

Report Date: 23-DEC-11

Page 1 of 2

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|

Quality Control Report

Workorder: L1060332

Report Date: 23-DEC-11

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

Page 2 of 2

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

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

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

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



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Phytoplankton Sample Results

Lab Number: L1060332-1

Work Order: L1060332

Date Sampled: September 16, 2011

Submitter:

Source: STL-03 (PHYTO)

WQNum

Sample Type WATER

| Class | Genus | Species | Number of Cells per litre | Unit Biovolume μ^3 | Total Biovolume μ^3 |
|-------------------|----------------------------|----------------|----------------------------------|--|---|
| Bacillariophyceae | <i>Eunotia</i> | sp. | 17400 | 720 | 12528000 |
| Bacillariophyceae | <i>Navicula</i> | sp. | 400 | 4000 | 1600000 |
| Chrysophyceae | <i>small chrysoophytes</i> | | 1228800 | 64 | 78643200 |
| Cryptophyceae | <i>Cryptomonas</i> | sp. | 34700 | 2000 | 69400000 |
| Euglenophyceae | <i>Euglena</i> | sp. | 800 | 10000 | 8000000 |

Date Printed: December 15, 2011



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Phytoplankton Sample Results

Lab Number: L1060332-2

Work Order: L1060332

Date Sampled: September 17, 2011

Submitter:

Source: STC-01 (PHYTO)

WQNum

Sample Type WATER

| Class | Genus | Species | Number of Cells per litre | Unit Biovolume μ^3 | Total Biovolume μ^3 |
|-------------------|---------------------------|----------------|----------------------------------|--|---|
| Bacillariophyceae | <i>Eunotia</i> | sp. | 200 | 540 | 108000 |
| Bacillariophyceae | <i>Navicula</i> | sp. | 5000 | 4000 | 20000000 |
| Bacillariophyceae | <i>Nitzschia</i> | sp. | 2500 | 540 | 1350000 |
| Chrysophyceae | <i>small chrysophytes</i> | | 96000 | 64 | 6144000 |
| Cyanophyceae | <i>Planktolynghya</i> | sp. | 7400 | 480 | 3552000 |
| Fragilariophyceae | <i>Fragilaria</i> | sp. | 800 | 960 | 768000 |
| Fragilariophyceae | <i>Synedra</i> | acus | 200 | 8640 | 1728000 |
| Fragilariophyceae | <i>Tabellaria</i> | sp. | 400 | 5850 | 2340000 |

Date Printed: December 15, 2011



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Zooplankton Sample Results

Lab Number: L1060332-3 **Work Order:** L1060332

Date Sampled: September 16, 2011
Source: STL-03

Submitter:
Sample ID:

Volume Decanted (mL): 100
Volume analyzed (mL): 10

| Phylum | Class | Order | Family | Genus | Species | Total No. per Sample | Average Biovolume μ^3 | Biovolume μ^3 per Sample |
|------------|-------------|---------|--------------|---------------------|-------------------|----------------------|---------------------------|------------------------------|
| Arthropoda | Insecta | Diptera | Chironomidae | <i>Unidentified</i> | | 50 | 1.20E+07 | 6.00E+08 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Brachionus</i> | <i>sp.</i> | 350 | 7.78E+06 | 2.72E+09 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Kellicottia</i> | <i>longispina</i> | 10 | 6.48E+05 | 6.48E+06 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Keratella</i> | <i>sp.</i> | 10 | 3.24E+05 | 3.24E+06 |



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Zooplankton Sample Results

Lab Number: L1060332-4 **Work Order: L1060332**

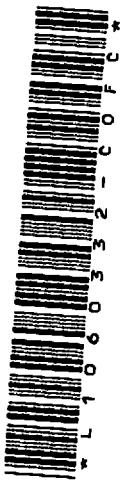
Date Sampled: September 17, 2011
Source: STC-01

Volume Decanted (mL): 200
Volume analyzed (mL): 100

| Phylum | Class | Order | Family | Genus | Species | Total No. per Sample | Average Biovolume μ^3 | Biovolume per Sample μ^3 |
|------------|--------------|---------------|------------------|------------------------|-------------------|----------------------|---------------------------|------------------------------|
| Arachnida | Arachnida | Hydracarina | | <i>Unidentified</i> | | 2 | 4.32E+06 | 8.64E+06 |
| Crustacea | Branchiopoda | Cladocera | Chydoridae | <i>Chydorus</i> | <i>sp.</i> | 6 | 8.64E+06 | 5.18E+07 |
| Crustacea | Copepoda | Cyclopoida | Cyclopidae | <i>Cyclops</i> | <i>sp.</i> | 4 | 1.92E+07 | 7.68E+07 |
| Crustacea | Copepoda | | | <i>Nauplii</i> | | 2 | 4.32E+05 | 8.64E+05 |
| Protozoa | Heliozoa | Actinophryida | Actinosphaeridae | <i>Actinosphaerium</i> | <i>sp.</i> | 2 | 2.16E+05 | 4.32E+05 |
| Arthropoda | Insecta | Diptera | Chironomidae | <i>Unidentified</i> | | 6 | 2.16E+06 | 1.30E+07 |
| Rotifera | Monogononta | Ploima | Euchlanidae | <i>Euchlanis</i> | <i>sp.</i> | 2 | 5.40E+06 | 1.08E+07 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Kellicottia</i> | <i>longispina</i> | 2 | 6.48E+05 | 1.30E+06 |
| Rotifera | Monogononta | Ploima | Lecanidae | <i>Monostyla</i> | <i>sp.</i> | 2 | 8.64E+05 | 1.73E+06 |

L1000332
COC # 2

Analytical Request Form
Free: 1 800 668 9878
www.alsglobal.com



| | | | | | |
|--|--|--|--|--|--|
| Report To Company: AECOM -W172 Contact: Cliff Samoiloff Address: 99 Commerce Dr Phone: _____ Fax: _____ Email 1: cliff.samoiloff@aecom.com Email 2: shawna.kjartanson@aecom.com Email 3: mark.hadfield@aecom.com | | Report From <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 Job #: 60212435- PO / AFE: LSD: | | Service Requested (Rush for routine analysis subject to availability) <input checked="" type="radio"/> Regular (Standard Turnaround Times - Business Days) <input type="radio"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT | |
| Client / Project Information Job #: 60212435- PO / AFE: LSD: | | Analysis Request Please indicate below Filtered, Preserved or both (F, P, F/P) | | Number of Containers | |
| Sample Identification (This description will appear on the report) STL-03 STC-01 | | Date 16-Sep-11 17-Sep-11 | | Time 11:45 9:00 | |
| Sample Type water water | | Sampler: Christine Herrod | | Phytoplankton Zooplankton | |
| Lab Work Order # (lab use only) | | Quote #: Q24534 | | X X X X | |
| Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details | | Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details | | | |

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

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.

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

| | | | | | |
|--|--|--|--|--|--|
| SHIPMENT RELEASE (client use) Released by: _____ Date (dd-mm-yy): _____ Time (hh-m): _____ | | SHIPMENT RECEPTION (lab use only) Received by: _____ Date: 19-Sep-11 Temperature: 20 °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

Date Received: 19-SEP-11
Report Date: 23-DEC-11 12:23 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1060333
Project P.O. #: NOT SUBMITTED
Job Reference: 60212443-200
C of C Numbers:
Legal Site Desc:

Robert S. Kitlar
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|---------------|------------|------|-------|-----------|-----------|----------|
| L1060333-1 GHL-03 (PHYTO) Sampled By: CLIENT on 14-SEP-11 @ 12:37 Matrix: WATER Miscellaneous Parameters Phytoplankton Biovolumes | See attached. | | | | 15-DEC-11 | 15-DEC-11 | R2301756 |
| L1060333-2 GHL-03 (ZOOPL) Sampled By: CLIENT on 14-SEP-11 @ 12:37 Matrix: WATER Miscellaneous Parameters Zooplankton Biovolumes Note: Species name cut off: Brachionus quadridentatus | See attached. | | | | 23-DEC-11 | 23-DEC-11 | R2305768 |
| | | | | | | | |

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

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|--------------------------|------------------------------|
| PHYTO-BIO-WP | Water | Phytoplankton Biovolumes | Standard Methods 10200, 1998 |

This procedure is applicable to the identification and enumeration of microscopic organisms occurring within samples of fresh water. Samples are prepared using a sedimentation technique, and are then examined using a compound phase contrast inverted microscope. Both phytoplankton and zooplankton are identified to species where possible, enumerated and reported.

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1060333

Report Date: 23-DEC-11

Page 1 of 2

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|

Quality Control Report

Workorder: L1060333

Report Date: 23-DEC-11

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

Page 2 of 2

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

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

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

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



ALS Laboratory Group
Manitoba Technology Centre
12-1329 Niakwa Road E
Winnipeg, Manitoba R2J 3T4
(204) 255-9720

Phytoplankton Sample Results

Lab Number: L1060333-1

Work Order: L1060333

Date Sampled: September 14, 2011

Submitter:

Source: GH1-03 (PHYTO)

WQNum

Sample Type WATER

| Class | Genus | Species | Number of Cells per litre | Unit Biovolume μ3 | Total Biovolume μ3 |
|---------------------|---------------------------|--------------------|----------------------------------|---|--|
| Bacillariophyceae | <i>Cocconeis</i> | sp. | 1000 | 4500 | 4500000 |
| Bacillariophyceae | <i>Navicula</i> | sp. | 6200 | 4000 | 24800000 |
| Bacillariophyceae | <i>Nitzschia</i> | sp. | 12400 | 540 | 6696000 |
| Chlorophyceae | <i>Elakatothrix</i> | sp. | 18600 | 180 | 3348000 |
| Chlorophyceae | <i>Monoraphidium</i> | sp. | 43400 | 120 | 5208000 |
| Chlorophyceae | <i>Oocystis</i> | sp. | 1000 | 1500 | 1500000 |
| Chlorophyceae | <i>Pediastrum</i> | privum | 1000 | 400 | 400000 |
| Chlorophyceae | <i>Planktosphaeria</i> | sp. | 2000 | 8000 | 16000000 |
| Chlorophyceae | <i>Quadrigula</i> | sp. | 12000 | 180 | 2160000 |
| Chlorophyceae | <i>Scenedesmus</i> | <i>quadricauda</i> | 4000 | 540 | 2160000 |
| Chlorophyceae | <i>Scenedesmus</i> | sp. | 8000 | 160 | 1280000 |
| Chlorophyceae | <i>Scenedesmus</i> | <i>spinosus</i> | 24800 | 160 | 3968000 |
| Chrysophyceae | <i>Dinobryon</i> | <i>bavaricum</i> | 6200 | 540 | 3348000 |
| Chrysophyceae | <i>Dinobryon</i> | sp. | 24000 | 540 | 12960000 |
| Chrysophyceae | <i>small chrysophytes</i> | | 6912000 | 64 | 442368000 |
| Coccinodiscophyceae | <i>Rhizosolenia</i> | sp. | 12400 | 96 | 1190400 |
| Cryptophyceae | <i>Cryptomonas</i> | sp. | 18600 | 12000 | 223200000 |
| Cyanophyceae | <i>Aphanocapsa</i> | sp. | 18600 | 8000 | 148800000 |
| Cyanophyceae | <i>Merismopedia</i> | sp. | 8000 | 8 | 64000 |

Date Printed: December 15, 2011

Lab Number: L1060333-1

Work Order: L1060333

September 14, 2011

Submitter:

GHL-03 (PHYTO)

WQNum

Source:

Sample Type WATER

| Class | Genus | Species | Number of Cells per litre | Unit Biovolume μ3 | Total Biovolume μ3 |
|-------------------|-----------------------|----------------|----------------------------------|---|--|
| Cyanophyceae | <i>Planktolyngbya</i> | <i>sp.</i> | 18600 | 360 | 6696000 |
| Cyanophyceae | <i>Pseudanabaena</i> | <i>sp.</i> | 99200 | 480 | 47616000 |
| Dinophyceae | <i>Gymnodinium</i> | <i>sp.</i> | 6200 | 31500 | 195300000 |
| Dinophyceae | <i>Peridinium</i> | <i>sp.</i> | 18600 | 4500 | 837000000 |
| Fragilariophyceae | <i>Fragilaria</i> | <i>sp.</i> | 4000 | 960 | 3840000 |
| Fragilariophyceae | <i>Synedra</i> | <i>sp.</i> | 18600 | 540 | 10044000 |

Date Printed: December 15, 2011



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Manitoba Technology Centre
1329 Niakwa RD E - Unit 12
Winnipeg, Manitoba R2J 3T4
(204) 255-9720

Zooplankton Sample Results

Lab Number: L1060333-2 **Work Order: L1060333**

Date Sampled: September 14, 2011

Source: GHL-03

Submitter:

Sample ID:

Volume Decanted (mL): 100

Volume analyzed (mL): 1

| Phylum | Class | Order | Family | Genus | Species | Total No. per Sample | Average Biovolume μ^3 | Biovolume per Sample μ^3 |
|-----------|--------------|-----------------|---------------|-----------------------|---------------------|----------------------|---------------------------|------------------------------|
| Rotifera | | | | <i>Unidentified</i> | | 100 | 2.88E+05 | 2.88E+07 |
| Crustacea | Branchiopoda | Cladocera | Bosminidae | <i>Bosmina</i> | <i>sp.</i> | 700 | 2.07E+07 | 1.45E+10 |
| Protozoa | Ciliata | | | <i>Unidentified</i> | | 100 | 1.73E+06 | 1.73E+08 |
| Protozoa | Ciliata | Peritrichida | Vorticellidae | <i>Vorticella</i> | <i>sp.</i> | 5800 | 6.40E+04 | 3.71E+08 |
| Crustacea | Copepoda | Cyclopoida | Cyclopidae | <i>Cyclops</i> | <i>sp.</i> | 100 | 4.32E+06 | 4.32E+08 |
| Crustacea | Copepoda | Calanoidea | Diaptomidae | <i>Diaptomus</i> | <i>sp.</i> | 300 | 4.61E+07 | 1.38E+10 |
| Crustacea | Copepoda | | | <i>Nauplii</i> | | 3100 | 4.32E+05 | 1.34E+09 |
| Crustacea | Copepoda | Cyclopoida | | <i>To young to ID</i> | | 200 | 3.46E+06 | 6.91E+08 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Brachionus</i> | <i>quadridentat</i> | 100 | 1.94E+06 | 1.94E+08 |
| Rotifera | Monogononta | Flosculariaceae | Conochilidae | <i>Conochilus</i> | <i>sp.</i> | 8800 | 3.24E+05 | 2.85E+09 |
| Rotifera | Monogononta | Ploima | Gastropodidae | <i>Gastropus</i> | <i>sp.</i> | 1000 | 5.76E+05 | 5.76E+08 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Kellicottia</i> | <i>longispina</i> | 14100 | 6.48E+05 | 9.14E+09 |
| Rotifera | Monogononta | Ploima | Brachionidae | <i>Keratella</i> | <i>sp.</i> | 7000 | 3.24E+05 | 2.27E+09 |
| Rotifera | Monogononta | Ploima | Lecanidae | <i>Lecane</i> | <i>sp.</i> | 100 | 8.64E+05 | 8.64E+07 |

Date Printed: December 23, 2011



ALS Laboratories
 Manitoba Technology Centre
 1329 Niakwa RD E - Unit 12
 Winnipeg, Manitoba R2J 3T4
 (204) 255-9720

Zooplankton Sample Results

Lab Number: L10603333-2 **Work Order:** L10603333

Date Sampled: September 14, 2011
Source: GHL-03

Submitter: Volume Decanted (mL): 100
Sample ID: Volume analyzed (mL): 1

| Phylum | Class | Order | Family | Genus | Species | Total No. per Sample | Average Biovolume μ^3 | Biovolume per Sample μ^3 |
|----------|-------------|--------|----------------|--------------------|---------|----------------------|---------------------------|------------------------------|
| Rotifera | Monogononta | Ploima | Synchaetidae | <i>Ploesoma</i> | sp. | 100 | 8.10E+06 | 8.10E+08 |
| Rotifera | Monogononta | Ploima | Synchaetidae | <i>Polyarthra</i> | sp. | 4800 | 3.24E+05 | 1.56E+09 |
| Rotifera | Monogononta | Ploima | Trichocercidae | <i>Trichocerca</i> | sp. | 300 | 3.60E+06 | 1.08E+09 |



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

Date Received: 23-SEP-11
Report Date: 13-OCT-11 13:32 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062716
Project P.O. #: NOT SUBMITTED
Job Reference: 60212435
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062716-1 STL-01A | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 14:50 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.10 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 24.3 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 0.86 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 24.4 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.119 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 88.7 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 1.97 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 541 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 3.00 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 93.3 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 3.73 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Silt | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Metals | | | | | | | |
| Aluminum (Al) | 4610 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.36 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 15.4 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 55.8 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.120 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 4.5 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 7.99 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 2930 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.337 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 8.8 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 134 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 640 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 46100 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 18.5 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 1340 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 114 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 0.804 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 36.4 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Phosphorus (P) | 510 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 483 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 4.09 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Selenium (Se) | 3.09 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | 0.22 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 210 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 10.1 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | 0.11 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Titanium (Ti) | 167 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.117 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.595 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 15.0 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zinc (Zn) | 9060 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062716-2 STL-01B Sampled By: CLIENT on 16-SEP-11 @ 15:00 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 1.63 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062716-3 STL-01C Sampled By: CLIENT on 16-SEP-11 @ 15:05 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.22 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 31.7 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.82 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 32.0 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.365 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 89.5 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 2.51 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 654 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 5800 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.50 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 36.2 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 36.1 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.262 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 4.8 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 10.1 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 3240 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.352 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 7.9 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 192 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 871 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 33700 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 32.9 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 1670 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 175 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 0.639 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 48.0 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Phosphorus (P) | 600 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 549 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 4.76 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Selenium (Se) | 4.48 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | 0.35 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 276 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 11.7 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tellurium (Te) | 0.19 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | 0.11 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Titanium (Ti) | 165 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.626 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.551 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 13.3 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zinc (Zn) | 11100 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062716-3 STL-01C Sampled By: CLIENT on 16-SEP-11 @ 15:05 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 2.11 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062716-4 STL-02A Sampled By: CLIENT on 16-SEP-11 @ 13:30 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.14 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 29.6 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.19 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 29.8 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.076 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 93.8 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 2.41 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 525 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 5.59 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 87.0 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 7.44 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Silt | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Metals | | | | | | | |
| Aluminum (Al) | 4490 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.23 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 8.45 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 74.6 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.067 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 4.6 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 5.98 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 3960 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.294 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 7.9 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 76.0 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 458 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 72400 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 9.22 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 1940 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 133 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 0.847 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 20.6 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Phosphorus (P) | 510 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 481 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 3.68 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Selenium (Se) | 2.15 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | 0.16 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 406 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 13.1 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062716-4 STL-02A Sampled By: CLIENT on 16-SEP-11 @ 13:30 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 148 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.080 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.667 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 13.5 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zinc (Zn) | 5830 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zirconium (Zr) | 1.41 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062716-5 STL-02B Sampled By: CLIENT on 16-SEP-11 @ 13:45 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.15 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 31.5 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.23 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 31.6 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.084 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 91.9 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 2.54 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 554 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 4720 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.27 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 10.1 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 80.5 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.078 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 3.9 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 7.61 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 3750 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.330 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 7.8 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 105 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 527 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 57700 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 12.9 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 1700 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 104 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 0.905 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 27.9 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Phosphorus (P) | 480 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 468 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 3.78 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Selenium (Se) | 2.41 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | 0.16 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 310 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 13.4 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062716-5 STL-02B Sampled By: CLIENT on 16-SEP-11 @ 13:45 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 146 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.112 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.649 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 14.2 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zinc (Zn) | 8360 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zirconium (Zr) | 1.71 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062716-6 STL-02C Sampled By: CLIENT on 16-SEP-11 @ 13:50 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.16 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 28.3 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.37 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 28.5 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.102 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 92.5 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 2.30 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 561 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 4530 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.39 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 12.6 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 53.4 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.091 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 3.3 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 9.42 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 3490 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.297 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 7.2 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 187 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 709 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 61700 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 18.7 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 1630 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 127 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 0.762 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 38.3 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Phosphorus (P) | 540 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 449 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 3.61 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Selenium (Se) | 2.91 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | 0.30 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 301 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 15.0 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062716-6 STL-02C Sampled By: CLIENT on 16-SEP-11 @ 13:50 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 136 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.117 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.630 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 14.0 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zinc (Zn) | 13600 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zirconium (Zr) | 1.53 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062716-7 STL-03A Sampled By: CLIENT on 16-SEP-11 @ 12:10 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.14 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 32.8 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.16 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 32.9 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.077 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 90.7 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 2.49 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 490 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 4.89 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 94.6 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 0.48 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Silt | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Note: Results Unreliable. Insufficient soil for analysis. | | | | | | | |
| Metals | | | | | | | |
| Aluminum (Al) | 5910 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.19 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 8.92 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 67.4 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.093 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 4.4 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 5.63 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 3230 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.390 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 9.8 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 125 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 471 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 22600 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 12.0 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 1670 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 116 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 0.801 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 39.7 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Phosphorus (P) | 460 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 527 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 4.80 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062716-7 STL-03A Sampled By: CLIENT on 16-SEP-11 @ 12:10 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Selenium (Se) | 2.56 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | 0.16 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 237 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 12.0 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Titanium (Ti) | 161 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.266 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.578 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 16.0 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zinc (Zn) | 5960 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zirconium (Zr) | 2.90 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062716-8 STL-03B Sampled By: CLIENT on 16-SEP-11 @ 12:15 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.10 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 35.8 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 0.87 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 35.9 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.098 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 86.9 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 2.73 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 565 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 6410 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.29 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 11.0 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 42.0 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | 0.17 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.146 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 5.4 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 7.76 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 3150 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.397 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 10.1 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 173 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 641 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 14900 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 15.6 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 1600 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 113 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 0.951 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 54.5 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Phosphorus (P) | 540 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 581 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 4.90 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062716-8 STL-03B Sampled By: CLIENT on 16-SEP-11 @ 12:15 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Selenium (Se) | 3.23 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | 0.18 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 207 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 10.9 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | 0.11 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Titanium (Ti) | 178 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.152 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.616 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 17.3 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zinc (Zn) | 8510 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zirconium (Zr) | 3.31 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062716-9 STL-03C Sampled By: CLIENT on 16-SEP-11 @ 12:20 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.20 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 34.8 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.67 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 35.0 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.066 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 87.2 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 2.67 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 517 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 6440 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Antimony (Sb) | 0.18 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Arsenic (As) | 7.64 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Barium (Ba) | 60.5 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Beryllium (Be) | 0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.087 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Boron (B) | 2.8 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Cadmium (Cd) | 4.76 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Calcium (Ca) | 3140 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Cesium (Cs) | 0.407 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Chromium (Cr) | 11.8 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Cobalt (Co) | 117 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Copper (Cu) | 427 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Iron (Fe) | 25800 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Lead (Pb) | 10.9 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Magnesium (Mg) | 1760 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Manganese (Mn) | 105 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.764 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Nickel (Ni) | 38.4 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Phosphorus (P) | 510 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Potassium (K) | 575 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Rubidium (Rb) | 4.56 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062716-9 STL-03C | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 12:20 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Selenium (Se) | 2.66 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Silver (Ag) | 0.14 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Sodium (Na) | 231 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Strontium (Sr) | 9.69 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Titanium (Ti) | 187 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Tungsten (W) | 0.090 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Uranium (U) | 0.613 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Vanadium (V) | 17.3 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Zinc (Zn) | 4890 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |
| Zirconium (Zr) | 2.82 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2261045 |

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

Reference Information

Sample Parameter Qualifier Key:

| Qualifier | Description |
|-----------|----------------------------------|
| UMI | Unreliable: Matrix interference. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

| | | | |
|----------------|------|------------------------------|----------------------|
| C-INORG-ORG-SK | Soil | Inorganic and Organic Carbon | SSSA (1996) P455-456 |
|----------------|------|------------------------------|----------------------|

When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.

Reference:

Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|---------------|------|-----------------------------------|------------------------|
| C-TOT-LECO-SK | Soil | Total Carbon by combustion method | SSSA (1996) P. 973-974 |
|---------------|------|-----------------------------------|------------------------|

The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen.

Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen.

This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference:

Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|------------------|------|---------------|----------------------|
| HG-200.2-CVAF-WP | Soil | Mercury Total | EPA 7470A Rev 1,1994 |
|------------------|------|---------------|----------------------|

A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.

| | | | |
|-----------------|------|--------|--------------------------|
| MET-200.2-MS-WP | Soil | Metals | EPA 200.8/200.2 /BCMOE-S |
|-----------------|------|--------|--------------------------|

This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements. Soil samples are dried (<60 °C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.

The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.

| | | | |
|----------|------|------------------|---------------|
| MOIST-SK | Soil | Moisture Content | ASTM D2216-80 |
|----------|------|------------------|---------------|

The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.

Reference: ASTM D2216-80

| | | | |
|---------------|------|-------------------------------------|------------------------|
| N-TOT-LECO-SK | Soil | Total Nitrogen by combustion method | SSSA (1996) p. 973-974 |
|---------------|------|-------------------------------------|------------------------|

The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen.

Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen.

This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|---------------|------|------------------|-----------|
| P-SALM-ICP-SK | Soil | Total Phosphorus | EPA 200.2 |
|---------------|------|------------------|-----------|

This analysis is carried out using procedures from CSR Analytical Method: "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, 26 June 2009, and procedures adapted from EPA Method 200.2. The sample is dried at 40 °C, then ground to < 2 mm particle size using a stainless steel flail grinder. A representative portion is digested with concentrated nitric and hydrochloric acids for 2 hours in an open vessel digester at 95 degrees. Instrumental analysis of the digested extract is by ICP-OES.

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|--|---------------------------------|
| PSA-3-SK | Soil | Particle size - Pipette removal OM & CO3 | Forestry Canada (1991) p. 46-53 |

Dry, < 2 mm soil is treated hydrochloric acid to remove carbonates, then hydrogen peroxide to remove organic matter. The remaining soil is treated with sodium hexametaphosphate to ensure complete dispersion of primary soil particles. The homogenized suspension is allowed to settle in accordance with Stoke's Law so that only clay particles remain in suspension. To determine the clay fraction, an aliquot of the clay suspension is removed, then dried and weighed. The sand fraction is determined by wet sieving the remaining suspension, then drying and weighing the sand retained on the sieve. The silt fraction is determined by calculation where % Silt = 100 - (%Sand+%Clay)

Reference:

Burt, R. (2009). Soil Survey Field and Laboratory Methods Manual. Soil Survey Investigations Report No. 5. Method 3.2.1.2.2. United States Department of Agriculture Natural Resources Conservation Service.

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| SK | ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA |
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1062716

Report Date: 13-OCT-11

Page 1 of 15

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|--------|-----------|-------|------|-----------|-----------|
| C-INORG-ORG-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263335 | | | | | | | |
| WG1360092-1 | DUP | L1062730-3 | | | | | | |
| Inorganic Carbon | | 0.15 | 0.18 | | % | 22 | 30 | 04-OCT-11 |
| CaCO3 Equivalent | | 1.21 | 1.52 | | % | 22 | 25 | 04-OCT-11 |
| WG1360092-2 | IRM | 0.4%IC | | | | | | |
| Inorganic Carbon | | | 0.45 | | % | | 0.28-0.52 | 04-OCT-11 |
| CaCO3 Equivalent | | | 3.73 | | % | | 2.33-4.33 | 04-OCT-11 |
| WG1360092-3 | MB | | | | | | | |
| Inorganic Carbon | | | <0.10 | | % | | 0.1 | 04-OCT-11 |
| CaCO3 Equivalent | | | <0.70 | | % | | 1 | 04-OCT-11 |
| C-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263333 | | | | | | | |
| WG1360057-1 | DUP | L1062730-5 | | | | | | |
| Total Carbon by Combustion | | 33.3 | 33.1 | | % | 0.60 | 10 | 01-OCT-11 |
| WG1360057-2 | IRM | 08-109_SOIL | | | | | | |
| Total Carbon by Combustion | | | 1.4 | | % | | 1.1-1.7 | 01-OCT-11 |
| WG1360057-3 | MB | | | | | | | |
| Total Carbon by Combustion | | | <0.1 | | % | | 0.1 | 01-OCT-11 |
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2266580 | | | | | | | |
| WG1364408-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 109 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 101 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-4 | DUP | L1062760-5 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 06-OCT-11 |
| WG1364408-5 | DUP | L1062716-9 | | | | | | |
| Mercury (Hg)-Total | | 0.066 | 0.078 | | mg/kg | 16 | 40 | 06-OCT-11 |
| WG1364408-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 06-OCT-11 |
| Batch | R2268035 | | | | | | | |
| WG1367458-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 107 | | % | | 70-130 | 12-OCT-11 |
| WG1367458-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 97 | | % | | 70-130 | 12-OCT-11 |
| WG1367458-4 | DUP | L1062716-1 | | | | | | |
| Mercury (Hg)-Total | | 0.119 | 0.116 | | mg/kg | 2.8 | 40 | 12-OCT-11 |
| WG1367458-5 | DUP | L1062761-1 | | | | | | |



Quality Control Report

Workorder: L1062716

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2268035 | | | | | | | |
| WG1367458-5 | DUP | L1062761-1 | | | | | | |
| Mercury (Hg)-Total | | 0.126 | 0.123 | | mg/kg | 3.0 | 40 | 12-OCT-11 |
| WG1367458-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 12-OCT-11 |
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 113 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 93 | | % | | 70-130 | 29-SEP-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 105 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 89 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Titanium (Ti) | | | 112 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |



Quality Control Report

Workorder: L1062716

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |
| Aluminum (Al) | | | 73 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 86 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 106 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 123 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 85 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 87 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 79 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 75 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Aluminum (Al) | | 6440 | 6690 | | mg/kg | 3.8 | 40 | 29-SEP-11 |
| Arsenic (As) | | 7.64 | 7.96 | | mg/kg | 4.1 | 30 | 29-SEP-11 |
| Barium (Ba) | | 60.5 | 65.4 | | mg/kg | 7.8 | 40 | 29-SEP-11 |
| Bismuth (Bi) | | 0.087 | 0.075 | | mg/kg | 15 | 30 | 29-SEP-11 |
| Boron (B) | | 2.8 | 3.4 | | mg/kg | 20 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 4.76 | 4.86 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 3140 | 3540 | | mg/kg | 12 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062716

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Cesium (Cs) | | 0.407 | 0.423 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 11.8 | 13.2 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 117 | 136 | | mg/kg | 16 | 30 | 29-SEP-11 |
| Copper (Cu) | | 427 | 462 | | mg/kg | 8.0 | 30 | 29-SEP-11 |
| Iron (Fe) | | 25800 | 25200 | | mg/kg | 2.3 | 30 | 29-SEP-11 |
| Lead (Pb) | | 10.9 | 9.63 | | mg/kg | 13 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 1760 | 1940 | | mg/kg | 9.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 105 | 126 | | mg/kg | 18 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.764 | 0.848 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 38.4 | 43.2 | | mg/kg | 12 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 510 | 530 | | mg/kg | 3.9 | 30 | 29-SEP-11 |
| Potassium (K) | | 575 | 595 | | mg/kg | 3.4 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 4.56 | 5.53 | | mg/kg | 19 | 30 | 29-SEP-11 |
| Selenium (Se) | | 2.66 | 2.73 | | mg/kg | 2.9 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.14 | 0.15 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Sodium (Na) | | 231 | 282 | | mg/kg | 20 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 9.69 | 12.1 | | mg/kg | 22 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 187 | 200 | | mg/kg | 6.5 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.090 | 0.084 | | mg/kg | 6.8 | 30 | 29-SEP-11 |
| Uranium (U) | | 0.613 | 0.563 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 17.3 | 19.1 | | mg/kg | 9.9 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 4890 | 5140 | | mg/kg | 5.1 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 2.82 | 3.07 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Aluminum (Al) | | 30500 | 29800 | | mg/kg | 2.1 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 3.19 | 3.15 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.15 | | mg/kg | 3.3 | 30 | 29-SEP-11 |
| Barium (Ba) | | 133 | 130 | | mg/kg | 2.8 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.86 | 0.88 | | mg/kg | 2.8 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.189 | 0.177 | | mg/kg | 6.4 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062716

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Boron (B) | | 14.7 | 15.0 | | mg/kg | 2.1 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.574 | 0.513 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 9960 | 9830 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 2.47 | 2.43 | | mg/kg | 1.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 72.9 | 73.2 | | mg/kg | 0.35 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.9 | 19.3 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Copper (Cu) | | 43.9 | 43.0 | | mg/kg | 2.2 | 30 | 29-SEP-11 |
| Iron (Fe) | | 37500 | 38900 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Lead (Pb) | | 14.9 | 13.6 | | mg/kg | 9.6 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 12800 | 12900 | | mg/kg | 0.32 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 454 | 448 | | mg/kg | 1.4 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.327 | 0.330 | | mg/kg | 1.1 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 45.7 | 44.9 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 500 | 500 | | mg/kg | 1.0 | 30 | 29-SEP-11 |
| Potassium (K) | | 5850 | 5880 | | mg/kg | 0.64 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 67.7 | 66.9 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.54 | 1.43 | | mg/kg | 7.3 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.18 | 0.19 | | mg/kg | 4.7 | 40 | 29-SEP-11 |
| Sodium (Na) | | 436 | 468 | | mg/kg | 7.0 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 38.3 | 38.7 | | mg/kg | 0.94 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.32 | 0.29 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 1320 | 1330 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 5.2 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.32 | 1.24 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 65.6 | 66.1 | | mg/kg | 0.83 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 670 | 660 | | mg/kg | 1.6 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 24.9 | 26.4 | | mg/kg | 5.6 | 30 | 29-SEP-11 |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Aluminum (Al) | | 21900 | 21200 | | mg/kg | 3.3 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 4.10 | 4.16 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.43 | | mg/kg | 0.32 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062716

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Barium (Ba) | | 111 | 110 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.59 | 0.54 | | mg/kg | 9.6 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.140 | 0.144 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Boron (B) | | 18.9 | 17.5 | | mg/kg | 7.9 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.714 | 0.714 | | mg/kg | 0.020 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 13400 | 13200 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 1.97 | 1.90 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 55.1 | 53.0 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.3 | 18.5 | | mg/kg | 4.0 | 30 | 29-SEP-11 |
| Copper (Cu) | | 41.0 | 40.9 | | mg/kg | 0.23 | 30 | 29-SEP-11 |
| Iron (Fe) | | 28200 | 29200 | | mg/kg | 3.4 | 30 | 29-SEP-11 |
| Lead (Pb) | | 9.92 | 10.5 | | mg/kg | 6.1 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 9610 | 9490 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 701 | 656 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.532 | 0.535 | | mg/kg | 0.44 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 33.0 | 32.7 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 620 | 620 | | mg/kg | 0.48 | 30 | 29-SEP-11 |
| Potassium (K) | | 4260 | 4280 | | mg/kg | 0.47 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 51.8 | 48.3 | | mg/kg | 7.1 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.88 | 1.90 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.15 | 0.16 | | mg/kg | 7.2 | 40 | 29-SEP-11 |
| Sodium (Na) | | 351 | 354 | | mg/kg | 0.81 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 45.8 | 42.9 | | mg/kg | 6.7 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.23 | 0.24 | | mg/kg | 4.7 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 955 | 979 | | mg/kg | 2.6 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.112 | 0.125 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.31 | 1.33 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 48.8 | 48.5 | | mg/kg | 0.73 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 405 | 413 | | mg/kg | 2.0 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 20.1 | 20.1 | | mg/kg | 0.13 | 30 | 29-SEP-11 |
| WG1359420-1 | MB | | | | | | | |



Quality Control Report

Workorder: L1062716

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 29-SEP-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 29-SEP-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |



Quality Control Report

Workorder: L1062716

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Batch | R2262196 | | | | | | | |
| WG1359926-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Antimony (Sb) | | | 116 | | % | | 70-130 | 30-SEP-11 |
| Arsenic (As) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Barium (Ba) | | | 84 | | % | | 70-130 | 30-SEP-11 |
| Beryllium (Be) | | | 85 | | % | | 70-130 | 30-SEP-11 |
| Boron (B) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Cadmium (Cd) | | | 103 | | % | | 70-130 | 30-SEP-11 |
| Calcium (Ca) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Chromium (Cr) | | | 95 | | % | | 70-130 | 30-SEP-11 |
| Cobalt (Co) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Copper (Cu) | | | 104 | | % | | 70-130 | 30-SEP-11 |
| Iron (Fe) | | | 96 | | % | | 70-130 | 30-SEP-11 |
| Lead (Pb) | | | 96 | | % | | 70-130 | 30-SEP-11 |
| Magnesium (Mg) | | | 90 | | % | | 70-130 | 30-SEP-11 |
| Manganese (Mn) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Molybdenum (Mo) | | | 104 | | % | | 70-130 | 30-SEP-11 |
| Nickel (Ni) | | | 90 | | % | | 70-130 | 30-SEP-11 |
| Phosphorus (P) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Potassium (K) | | | 86 | | % | | 70-130 | 30-SEP-11 |
| Selenium (Se) | | | 98 | | % | | 70-130 | 30-SEP-11 |
| Silver (Ag) | | | 114 | | % | | 70-130 | 30-SEP-11 |
| Sodium (Na) | | | 86 | | % | | 70-130 | 30-SEP-11 |
| Strontium (Sr) | | | 103 | | % | | 70-130 | 30-SEP-11 |
| Thallium (Tl) | | | 91 | | % | | 70-130 | 30-SEP-11 |
| Tin (Sn) | | | 105 | | % | | 70-130 | 30-SEP-11 |
| Titanium (Ti) | | | 103 | | % | | 70-130 | 30-SEP-11 |
| Uranium (U) | | | 85 | | % | | 70-130 | 30-SEP-11 |
| Vanadium (V) | | | 100 | | % | | 70-130 | 30-SEP-11 |
| Zinc (Zn) | | | 93 | | % | | 70-130 | 30-SEP-11 |
| WG1359926-3 | CRM | NRC MESS-3 | | | | | | |



Quality Control Report

Workorder: L1062716

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-3 | CRM | NRC MESS-3 | | | | | | |
| Antimony (Sb) | | | 92 | | % | | 70-130 | 30-SEP-11 |
| Arsenic (As) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Barium (Ba) | | | 96 | | % | | 70-130 | 30-SEP-11 |
| Beryllium (Be) | | | 75 | | % | | 70-130 | 30-SEP-11 |
| Cadmium (Cd) | | | 88 | | % | | 70-130 | 30-SEP-11 |
| Calcium (Ca) | | | 106 | | % | | 70-130 | 30-SEP-11 |
| Chromium (Cr) | | | 81 | | % | | 70-130 | 30-SEP-11 |
| Cobalt (Co) | | | 98 | | % | | 70-130 | 30-SEP-11 |
| Copper (Cu) | | | 100 | | % | | 70-130 | 30-SEP-11 |
| Iron (Fe) | | | 96 | | % | | 70-130 | 30-SEP-11 |
| Lead (Pb) | | | 89 | | % | | 70-130 | 30-SEP-11 |
| Magnesium (Mg) | | | 88 | | % | | 70-130 | 30-SEP-11 |
| Manganese (Mn) | | | 104 | | % | | 70-130 | 30-SEP-11 |
| Molybdenum (Mo) | | | 100 | | % | | 70-130 | 30-SEP-11 |
| Nickel (Ni) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Phosphorus (P) | | | 88 | | % | | 70-130 | 30-SEP-11 |
| Potassium (K) | | | 75 | | % | | 70-130 | 30-SEP-11 |
| Selenium (Se) | | | 118 | | % | | 70-130 | 30-SEP-11 |
| Silver (Ag) | | | 108 | | % | | 70-130 | 30-SEP-11 |
| Sodium (Na) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Strontium (Sr) | | | 97 | | % | | 70-130 | 30-SEP-11 |
| Tin (Sn) | | | 109 | | % | | 70-130 | 30-SEP-11 |
| Uranium (U) | | | 86 | | % | | 70-130 | 30-SEP-11 |
| Vanadium (V) | | | 74 | | % | | 70-130 | 30-SEP-11 |
| Zinc (Zn) | | | 98 | | % | | 70-130 | 30-SEP-11 |
| WG1359926-5 | DUP | WG1359926-4 | | | | | | |
| Aluminum (Al) | | 4610 | 4150 | | mg/kg | 10 | 40 | 30-SEP-11 |
| Antimony (Sb) | | 0.36 | 0.35 | | mg/kg | 0.93 | 30 | 30-SEP-11 |
| Arsenic (As) | | 15.4 | 13.5 | | mg/kg | 13 | 30 | 30-SEP-11 |
| Barium (Ba) | | 55.8 | 52.9 | | mg/kg | 5.4 | 40 | 30-SEP-11 |
| Beryllium (Be) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Bismuth (Bi) | | 0.120 | 0.112 | | mg/kg | 6.9 | 30 | 30-SEP-11 |
| Boron (B) | | 4.5 | 3.7 | | mg/kg | 19 | 30 | 30-SEP-11 |



Quality Control Report

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-5 | DUP | WG1359926-4 | | | | | | |
| Cadmium (Cd) | | 7.99 | 7.73 | | mg/kg | 3.4 | 30 | 30-SEP-11 |
| Calcium (Ca) | | 2930 | 2740 | | mg/kg | 6.8 | 30 | 30-SEP-11 |
| Cesium (Cs) | | 0.337 | 0.292 | | mg/kg | 14 | 30 | 30-SEP-11 |
| Chromium (Cr) | | 8.8 | 7.9 | | mg/kg | 11 | 30 | 30-SEP-11 |
| Cobalt (Co) | | 134 | 124 | | mg/kg | 8.3 | 30 | 30-SEP-11 |
| Copper (Cu) | | 640 | 636 | | mg/kg | 0.62 | 30 | 30-SEP-11 |
| Iron (Fe) | | 46100 | 45700 | | mg/kg | 0.91 | 30 | 30-SEP-11 |
| Lead (Pb) | | 18.5 | 17.4 | | mg/kg | 6.5 | 40 | 30-SEP-11 |
| Magnesium (Mg) | | 1340 | 1220 | | mg/kg | 9.1 | 30 | 30-SEP-11 |
| Manganese (Mn) | | 114 | 104 | | mg/kg | 9.1 | 30 | 30-SEP-11 |
| Molybdenum (Mo) | | 0.804 | 0.830 | | mg/kg | 3.3 | 40 | 30-SEP-11 |
| Nickel (Ni) | | 36.4 | 33.5 | | mg/kg | 8.3 | 30 | 30-SEP-11 |
| Phosphorus (P) | | 510 | 460 | | mg/kg | 10 | 30 | 30-SEP-11 |
| Potassium (K) | | 483 | 406 | | mg/kg | 17 | 40 | 30-SEP-11 |
| Rubidium (Rb) | | 4.09 | 3.66 | | mg/kg | 11 | 30 | 30-SEP-11 |
| Selenium (Se) | | 3.09 | 2.64 | | mg/kg | 16 | 30 | 30-SEP-11 |
| Silver (Ag) | | 0.22 | 0.20 | | mg/kg | 12 | 40 | 30-SEP-11 |
| Sodium (Na) | | 210 | 209 | | mg/kg | 0.46 | 40 | 30-SEP-11 |
| Strontium (Sr) | | 10.1 | 10.1 | | mg/kg | 0.39 | 40 | 30-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Thallium (Tl) | | 0.11 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 30-SEP-11 |
| Titanium (Ti) | | 167 | 138 | | mg/kg | 19 | 40 | 30-SEP-11 |
| Tungsten (W) | | 0.117 | 0.120 | | mg/kg | 2.4 | 30 | 30-SEP-11 |
| Uranium (U) | | 0.595 | 0.568 | | mg/kg | 4.7 | 30 | 30-SEP-11 |
| Vanadium (V) | | 15.0 | 13.6 | | mg/kg | 10 | 30 | 30-SEP-11 |
| Zinc (Zn) | | 9060 | 8750 | | mg/kg | 3.6 | 30 | 30-SEP-11 |
| Zirconium (Zr) | | 1.77 | 1.66 | | mg/kg | 6.1 | 30 | 30-SEP-11 |
| WG1359926-7 | DUP | WG1359926-6 | | | | | | |
| Aluminum (Al) | | 4040 | 3980 | | mg/kg | 1.4 | 40 | 30-SEP-11 |
| Antimony (Sb) | | 0.16 | 0.17 | | mg/kg | 8.9 | 30 | 30-SEP-11 |
| Arsenic (As) | | 19.8 | 18.9 | | mg/kg | 4.6 | 30 | 30-SEP-11 |
| Barium (Ba) | | 60.9 | 61.6 | | mg/kg | 1.2 | 40 | 30-SEP-11 |



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Workorder: L1062716

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-7 | DUP | WG1359926-6 | | | | | | |
| Beryllium (Be) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Bismuth (Bi) | | 0.113 | 0.093 | | mg/kg | 19 | 30 | 30-SEP-11 |
| Boron (B) | | 8.3 | 8.4 | | mg/kg | 1.6 | 30 | 30-SEP-11 |
| Cadmium (Cd) | | 0.656 | 0.609 | | mg/kg | 7.4 | 30 | 30-SEP-11 |
| Calcium (Ca) | | 10100 | 10400 | | mg/kg | 3.4 | 30 | 30-SEP-11 |
| Cesium (Cs) | | 0.364 | 0.336 | | mg/kg | 7.9 | 30 | 30-SEP-11 |
| Chromium (Cr) | | 13.2 | 11.7 | | mg/kg | 12 | 30 | 30-SEP-11 |
| Cobalt (Co) | | 6.71 | 6.28 | | mg/kg | 6.6 | 30 | 30-SEP-11 |
| Copper (Cu) | | 16.3 | 16.3 | | mg/kg | 0.16 | 30 | 30-SEP-11 |
| Iron (Fe) | | 19100 | 18200 | | mg/kg | 4.8 | 30 | 30-SEP-11 |
| Lead (Pb) | | 10.3 | 9.93 | | mg/kg | 3.2 | 40 | 30-SEP-11 |
| Magnesium (Mg) | | 1370 | 1360 | | mg/kg | 0.98 | 30 | 30-SEP-11 |
| Manganese (Mn) | | 325 | 321 | | mg/kg | 1.3 | 30 | 30-SEP-11 |
| Molybdenum (Mo) | | 0.953 | 0.936 | | mg/kg | 1.8 | 40 | 30-SEP-11 |
| Nickel (Ni) | | 14.3 | 13.2 | | mg/kg | 8.4 | 30 | 30-SEP-11 |
| Phosphorus (P) | | 710 | 700 | | mg/kg | 1.4 | 30 | 30-SEP-11 |
| Potassium (K) | | 466 | 441 | | mg/kg | 5.7 | 40 | 30-SEP-11 |
| Rubidium (Rb) | | 3.36 | 3.40 | | mg/kg | 1.3 | 30 | 30-SEP-11 |
| Selenium (Se) | | 0.95 | 0.93 | | mg/kg | 2.7 | 30 | 30-SEP-11 |
| Silver (Ag) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 40 | 30-SEP-11 |
| Sodium (Na) | | 85 | 82 | | mg/kg | 2.8 | 40 | 30-SEP-11 |
| Strontium (Sr) | | 17.8 | 16.6 | | mg/kg | 7.0 | 40 | 30-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Thallium (Tl) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 30-SEP-11 |
| Titanium (Ti) | | 78.0 | 83.4 | | mg/kg | 6.7 | 40 | 30-SEP-11 |
| Tungsten (W) | | 0.136 | 0.125 | | mg/kg | 8.3 | 30 | 30-SEP-11 |
| Uranium (U) | | 0.278 | 0.273 | | mg/kg | 1.9 | 30 | 30-SEP-11 |
| Vanadium (V) | | 9.96 | 9.50 | | mg/kg | 4.8 | 30 | 30-SEP-11 |
| Zinc (Zn) | | 117 | 113 | | mg/kg | 3.2 | 30 | 30-SEP-11 |
| Zirconium (Zr) | | 3.16 | 2.95 | | mg/kg | 7.0 | 30 | 30-SEP-11 |
| WG1359926-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 30-SEP-11 |



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Workorder: L1062716

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | Soil | | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-1 | MB | | | | | | | |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 30-SEP-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 30-SEP-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 30-SEP-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 30-SEP-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 30-SEP-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 30-SEP-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 30-SEP-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 30-SEP-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 30-SEP-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 30-SEP-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 30-SEP-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 30-SEP-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 30-SEP-11 |



Quality Control Report

Workorder: L1062716

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed | |
|-------------------------|--------|-------------|--------|-----------|-------|-------|-------------|-----------|-----------|
| MET-200.2-MS-WP | | | | | | | | | |
| Soil | | | | | | | | | |
| Batch R2262196 | | | | | | | | | |
| WG1359926-1 MB | | | | | | | | | |
| Zirconium (Zr) | | | | | | | | | |
| | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 | |
| N-TOT-LECO-SK | | | | | | | | | |
| Soil | | | | | | | | | |
| Batch R2263333 | | | | | | | | | |
| WG1360057-1 DUP | | | | | | | | | |
| Total Nitrogen by LECO | | | | | | | | | |
| | | L1062730-5 | 3.19 | 3.18 | J | % | 0.012 | 0.05 | 01-OCT-11 |
| WG1360057-2 IRM | | | | | | | | | |
| Total Nitrogen by LECO | | | | | | | | | |
| | | 08-109_SOIL | 0.110 | | | % | 0.085-0.135 | 01-OCT-11 | |
| WG1360057-3 MB | | | | | | | | | |
| Total Nitrogen by LECO | | | | | | | | | |
| | | | <0.020 | | % | | 0.02 | 01-OCT-11 | |
| P-SALM-ICP-SK | | | | | | | | | |
| Soil | | | | | | | | | |
| Batch R2263655 | | | | | | | | | |
| WG1359965-2 CRM | | | | | | | | | |
| Phosphorus, Total | | | | | | | | | |
| | | SS-1_SOIL | 1100 | | mg/kg | | 750-1530 | 04-OCT-11 | |
| WG1359965-3 DUP | | | | | | | | | |
| Phosphorus, Total | | | | | | | | | |
| | | L1062761-6 | 1160 | 1140 | | mg/kg | 1.5 | 30 | 04-OCT-11 |
| WG1359965-5 DUP | | | | | | | | | |
| Phosphorus, Total | | | | | | | | | |
| | | L1062767-9 | 520 | 535 | | mg/kg | 2.8 | 30 | 04-OCT-11 |
| WG1359965-1 MB | | | | | | | | | |
| Phosphorus, Total | | | | | | | | | |
| | | | <50 | | mg/kg | | 50 | 04-OCT-11 | |
| PSA-3-SK | | | | | | | | | |
| Soil | | | | | | | | | |
| Batch R2264462 | | | | | | | | | |
| WG1360043-1 DUP | | | | | | | | | |
| % Sand (2.0mm - 0.05mm) | | | | | | | | | |
| | | L1062763-4 | 25.7 | 25.4 | J | % | 0.22 | 10 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | | | | | | | | |
| | | | 31.9 | 30.1 | J | % | 1.81 | 10 | 05-OCT-11 |
| % Clay (<2um) | | | | | | | | | |
| | | | 42.4 | 44.5 | J | % | 2.03 | 10 | 05-OCT-11 |
| WG1360043-2 IRM | | | | | | | | | |
| % Sand (2.0mm - 0.05mm) | | | | | | | | | |
| | | FARM2009 | 49.9 | | | % | 45-55 | 05-OCT-11 | |
| % Silt (0.05mm - 2um) | | | | | | | | | |
| | | | 33.4 | | | % | 29-39 | 05-OCT-11 | |
| % Clay (<2um) | | | | | | | | | |
| | | | 16.7 | | | % | 10-20 | 05-OCT-11 | |

Quality Control Report

Workorder: L1062716

Report Date: 13-OCT-11

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

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Contact: Clifton Samoiloff

Legend:

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

Sample Parameter Qualifier Definitions:

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

Quality Control Report

Workorder: L1062716

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Moisture Content | | | | | | | |
| | 1 | 16-SEP-11 14:50 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 2 | 16-SEP-11 15:00 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 3 | 16-SEP-11 15:05 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 4 | 16-SEP-11 13:30 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 5 | 16-SEP-11 13:45 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 6 | 16-SEP-11 13:50 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 7 | 16-SEP-11 12:10 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 8 | 16-SEP-11 12:15 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 9 | 16-SEP-11 12:20 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| | 1 | 16-SEP-11 14:50 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 2 | 16-SEP-11 15:00 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 3 | 16-SEP-11 15:05 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 4 | 16-SEP-11 13:30 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 5 | 16-SEP-11 13:45 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 6 | 16-SEP-11 13:50 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 7 | 16-SEP-11 12:10 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 8 | 16-SEP-11 12:15 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 9 | 16-SEP-11 12:20 | 04-OCT-11 00:00 | 14 | 17 | 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 L1062716 were received on 23-SEP-11 15:00.

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.



Study / Analytical Request Form
 Toll Free: 1 800 668 9878
 www.alsglobal.com

COC # L1002716

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

Client / Project Information
 Job #: 60212435
 PO / AFE:
 LSD:
 Quote #: Q24534
 ALS Contact:

| Sample # | Sample Identification (This description will appear on the report) | Sampler: | | Sample Type | Number of Containers |
|----------|---|-----------------|--------------|-------------|----------------------|
| | | Date (dd-mm-yy) | Time (hh:mm) | | |
| | STL-01A | 16-Sep-11 | 14:50 | Sediment | 2 |
| | STL-01B | 16-Sep-11 | 15:00 | Sediment | 1 |
| | STL-01C | 16-Sep-11 | 15:05 | Sediment | 1 |
| | STL-02A | 16-Sep-11 | 13:30 | Sediment | 2 |
| | STL-02B | 16-Sep-11 | 13:45 | Sediment | 1 |
| | STL-02C | 16-Sep-11 | 13:50 | Sediment | 1 |
| | STL-03A | 16-Sep-11 | 12:10 | Sediment | 2 |
| | STL-03B | 16-Sep-11 | 12:15 | Sediment | 1 |
| | STL-03C | 16-Sep-11 | 12:20 | Sediment | 1 |

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

Analysis Request
 Please indicate below Filtered, Preserved or both (F, P, F/P)
 C-TOT-ORG-SK
 MOIST-SK
 N-TOT-LECO-SK
 P-SALM-ICP-SK
 MET-200.2-MS-WP
 HG-200.2-CVAF-WP
 PREP-DRY/GRIND
 PSA-1 (Or 3 if 1 not possible)

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

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: [Signature] Date (dd-mm-yy): 23 Sep 11 Time (hh-mm): 10:17
 Received by: [Signature] Date: 23 Sep 11 Time: 15:00 Temperature: 07 °C
 Verified by: _____ Date: _____ Time: _____
 SHIPMENT/RELEASE (client use) SHIPMENT/RECEPTION (lab use only) SHIPMENT/VERIFICATION (lab use only)

Observations: Yes / No ?
 If Yes add SIF



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

Date Received: 23-SEP-11
Report Date: 13-OCT-11 13:32 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062730
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062730-1 THL-01A | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 09:30 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.27 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 34.8 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 2.23 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 35.1 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.121 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 98.3 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 3.39 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 787 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 5.54 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 82.8 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 11.7 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Silt | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Note: Results Unreliable. Insufficient soil for analysis. | | | | | | | |
| Metals | | | | | | | |
| Aluminum (Al) | 3200 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.29 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 17.6 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 96.8 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.138 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 10.6 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 0.804 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 9260 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.391 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 5.8 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 3.67 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 20.5 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 8130 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 22.9 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 1700 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 250 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 0.755 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 9.25 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Phosphorus (P) | 840 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 710 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 4.88 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Selenium (Se) | 1.13 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | 0.13 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 142 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 22.3 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Titanium (Ti) | 113 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.157 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.262 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 9.23 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062730-1 THL-01A Sampled By: CLIENT on 15-SEP-11 @ 09:30 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Zinc (Zn) | 154 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zirconium (Zr) | 2.89 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062730-2 THL-01B Sampled By: CLIENT on 15-SEP-11 @ 09:40 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.15 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 35.6 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.22 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 35.8 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.140 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 98.2 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 3.51 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 977 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 2620 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.27 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 16.2 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 68.5 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.184 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 8.9 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 0.886 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 8790 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.347 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 5.9 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 3.32 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 19.6 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 4990 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 26.9 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 1530 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 114 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 0.836 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 10.7 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Phosphorus (P) | 900 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 538 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 4.29 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Selenium (Se) | 1.06 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 142 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 21.0 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Titanium (Ti) | 79.2 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.196 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.246 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 7.78 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062730-2 THL-01B Sampled By: CLIENT on 15-SEP-11 @ 09:40 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Zinc (Zn) | 127 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zirconium (Zr) | 1.68 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062730-3 THL-01C Sampled By: CLIENT on 15-SEP-11 @ 09:45 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.15 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 36.5 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.21 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 36.7 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.056 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 97.5 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 3.58 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 794 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 3340 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.11 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 14.1 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 108 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | 0.11 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.060 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 9.0 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 0.424 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 8940 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.385 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 8.2 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 3.41 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 16.2 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 7280 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 6.82 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 1750 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 160 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 1.20 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 10.0 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Phosphorus (P) | 650 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 734 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 5.71 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Selenium (Se) | 0.99 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 162 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 30.0 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Titanium (Ti) | 141 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.106 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.400 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 10.7 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062730-3 THL-01C Sampled By: CLIENT on 15-SEP-11 @ 09:45 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Zinc (Zn) | 87 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zirconium (Zr) | 2.97 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062730-4 THL-02A Sampled By: CLIENT on 15-SEP-11 @ 10:30 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.16 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 33.6 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.37 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 33.8 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.122 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 97.8 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 3.27 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 849 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 2.18 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 87.6 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 10.3 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Silt | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Note: Results Unreliable. Insufficient soil for analysis. | | | | | | | |
| Metals | | | | | | | |
| Aluminum (Al) | 3800 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.38 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 23.6 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 77.1 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | 0.17 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.218 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 11.2 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 0.893 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 8590 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.399 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 6.7 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 4.60 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 19.8 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 12300 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 23.2 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 1510 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 216 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 0.927 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 10.3 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Phosphorus (P) | 830 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 642 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 5.04 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Selenium (Se) | 1.29 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 144 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 21.6 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062730-4 THL-02A Sampled By: CLIENT on 15-SEP-11 @ 10:30 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Titanium (Ti) | 98.5 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.139 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.367 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 12.9 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zinc (Zn) | 118 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zirconium (Zr) | 3.29 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062730-5 THL-02B Sampled By: CLIENT on 15-SEP-11 @ 10:35 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.15 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 33.2 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.29 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 33.3 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.131 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 97.7 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 3.19 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 885 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 3280 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 0.39 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 17.2 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 70.5 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.182 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 9.3 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.902 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 8010 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 0.338 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 7.4 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 4.23 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 20.6 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 10400 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 22.1 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 1440 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 197 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.818 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 10.2 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 880 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 541 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 4.42 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 1.37 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.13 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 133 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 19.7 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062730-5 THL-02B Sampled By: CLIENT on 15-SEP-11 @ 10:35 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 94.4 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.156 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 0.302 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 10.7 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 127 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 2.31 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062730-6 THL-02C Sampled By: CLIENT on 15-SEP-11 @ 10:40 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.16 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 33.6 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.32 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 33.8 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.132 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 97.6 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 3.29 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 878 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 3190 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.35 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 20.0 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 85.4 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | 0.13 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.189 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 10.9 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 0.872 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 9010 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.346 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 5.3 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 4.18 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 21.7 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 13300 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 22.7 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 1440 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 240 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 0.828 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 9.63 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Phosphorus (P) | 880 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 618 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 4.38 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Selenium (Se) | 1.25 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | 0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 121 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 21.5 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-------|-------|-----------|-----------|----------|
| L1062730-6 THL-02C Sampled By: CLIENT on 15-SEP-11 @ 10:40 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Titanium (Ti) | 90.5 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.182 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.332 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 10.7 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zinc (Zn) | 119 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zirconium (Zr) | 2.61 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062730-7 THL-03A Sampled By: CLIENT on 15-SEP-11 @ 11:40 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.19 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 34.5 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.55 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 34.7 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.100 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 97.5 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 3.16 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 760 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 2.47 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 84.3 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 13.2 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Silt loam | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Note: Results Unreliable. Insufficient soil for analysis. | | | | | | | |
| Metals | | | | | | | |
| Aluminum (Al) | 3860 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.27 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 18.7 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 88.2 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | 0.13 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.151 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 8.4 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 0.636 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 8400 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.461 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 12.9 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 4.14 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 14.4 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 8410 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 15.3 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 1790 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 173 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 0.812 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 11.6 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062730-7 THL-03A Sampled By: CLIENT on 15-SEP-11 @ 11:40 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Phosphorus (P) | 700 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 665 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 6.01 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Selenium (Se) | 1.25 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 133 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 23.2 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Titanium (Ti) | 127 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.116 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.321 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 11.5 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zinc (Zn) | 87 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zirconium (Zr) | 2.76 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062730-8 THL-03B Sampled By: CLIENT on 15-SEP-11 @ 11:45 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.17 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 34.7 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.44 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 34.9 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.096 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 97.5 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 3.26 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 820 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 3640 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 0.26 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 16.9 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 95.8 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.124 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 8.0 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.701 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 9070 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 0.431 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 8.6 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 3.74 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 14.7 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 9220 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 18.7 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 1710 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 223 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.649 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 8.79 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062730-8 THL-03B Sampled By: CLIENT on 15-SEP-11 @ 11:45 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Phosphorus (P) | 650 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 726 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 5.55 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 1.06 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 132 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 21.0 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 131 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.135 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 0.293 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 11.6 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 87 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 2.17 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062730-9 THL-03C Sampled By: CLIENT on 15-SEP-11 @ 11:50 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.22 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 35.3 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.82 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 35.5 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.098 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 97.8 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263660 |
| Total Nitrogen by LECO | 3.47 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 950 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 2710 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.25 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 15.7 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 80.4 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | 0.12 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.151 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 9.4 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 0.721 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 8230 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.329 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 4.9 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 3.19 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 15.5 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 7350 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 18.1 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 1510 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 154 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 0.694 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 8.05 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062730-9 THL-03C | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 11:50 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Phosphorus (P) | 910 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 580 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 4.18 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Selenium (Se) | 1.08 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 135 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 22.4 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Titanium (Ti) | 79.5 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.127 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.260 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 9.30 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zinc (Zn) | 99 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zirconium (Zr) | 2.17 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

Reference Information

Sample Parameter Qualifier Key:

| Qualifier | Description |
|-----------|----------------------------------|
| UMI | Unreliable: Matrix interference. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|-------------------------------------|--------------------------|
| C-INORG-ORG-SK | Soil | Inorganic and Organic Carbon | SSSA (1996) P455-456 |
| <p>When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.</p> <p>Reference: Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p> | | | |
| C-TOT-LECO-SK | Soil | Total Carbon by combustion method | SSSA (1996) P. 973-974 |
| <p>The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p> | | | |
| HG-200.2-CVAF-WP | Soil | Mercury Total | EPA 7470A Rev 1,1994 |
| <p>A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.</p> | | | |
| MET-200.2-MS-WP | Soil | Metals | EPA 200.8/200.2 /BCMOE-S |
| <p>This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements. Soil samples are dried (<60 °C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.</p> <p>The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.</p> <p>Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.</p> | | | |
| MOIST-SK | Soil | Moisture Content | ASTM D2216-80 |
| <p>The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.</p> <p>Reference: ASTM D2216-80</p> | | | |
| N-TOT-LECO-SK | Soil | Total Nitrogen by combustion method | SSSA (1996) p. 973-974 |
| <p>The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p> | | | |
| P-SALM-ICP-SK | Soil | Total Phosphorus | EPA 200.2 |
| <p>This analysis is carried out using procedures from CSR Analytical Method: "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, 26 June 2009, and procedures adapted from EPA Method 200.2. The sample is dried at 40 °C, then ground to < 2 mm particle size using a stainless steel flail grinder. A representative portion is digested with concentrated nitric and hydrochloric acids for 2 hours in an open vessel digester at 95 degrees. Instrumental analysis of the digested extract is by ICP-OES.</p> | | | |

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|--|---------------------------------|
| PSA-3-SK | Soil | Particle size - Pipette removal OM & CO3 | Forestry Canada (1991) p. 46-53 |

Dry, < 2 mm soil is treated hydrochloric acid to remove carbonates, then hydrogen peroxide to remove organic matter. The remaining soil is treated with sodium hexametaphosphate to ensure complete dispersion of primary soil particles. The homogenized suspension is allowed to settle in accordance with Stoke's Law so that only clay particles remain in suspension. To determine the clay fraction, an aliquot of the clay suspension is removed, then dried and weighed. The sand fraction is determined by wet sieving the remaining suspension, then drying and weighing the sand retained on the sieve. The silt fraction is determined by calculation where % Silt = 100 - (%Sand+%Clay)

Reference:

Burt, R. (2009). Soil Survey Field and Laboratory Methods Manual. Soil Survey Investigations Report No. 5. Method 3.2.1.2.2. United States Department of Agriculture Natural Resources Conservation Service.

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| SK | ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA |
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1062730

Report Date: 13-OCT-11

Page 1 of 15

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|--------|-----------|-------|------|-----------|-----------|
| C-INORG-ORG-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263335 | | | | | | | |
| WG1360092-1 | DUP | L1062730-3 | | | | | | |
| Inorganic Carbon | | 0.15 | 0.18 | | % | 22 | 30 | 04-OCT-11 |
| CaCO3 Equivalent | | 1.21 | 1.52 | | % | 22 | 25 | 04-OCT-11 |
| WG1360092-2 | IRM | 0.4%IC | | | | | | |
| Inorganic Carbon | | | 0.45 | | % | | 0.28-0.52 | 04-OCT-11 |
| CaCO3 Equivalent | | | 3.73 | | % | | 2.33-4.33 | 04-OCT-11 |
| WG1360092-3 | MB | | | | | | | |
| Inorganic Carbon | | | <0.10 | | % | | 0.1 | 04-OCT-11 |
| CaCO3 Equivalent | | | <0.70 | | % | | 1 | 04-OCT-11 |
| C-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263333 | | | | | | | |
| WG1360057-1 | DUP | L1062730-5 | | | | | | |
| Total Carbon by Combustion | | 33.3 | 33.1 | | % | 0.60 | 10 | 01-OCT-11 |
| WG1360057-2 | IRM | 08-109_SOIL | | | | | | |
| Total Carbon by Combustion | | | 1.4 | | % | | 1.1-1.7 | 01-OCT-11 |
| WG1360057-3 | MB | | | | | | | |
| Total Carbon by Combustion | | | <0.1 | | % | | 0.1 | 01-OCT-11 |
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2266580 | | | | | | | |
| WG1364408-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 109 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 101 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-4 | DUP | L1062760-5 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 06-OCT-11 |
| WG1364408-5 | DUP | L1062716-9 | | | | | | |
| Mercury (Hg)-Total | | 0.066 | 0.078 | | mg/kg | 16 | 40 | 06-OCT-11 |
| WG1364408-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 06-OCT-11 |
| Batch | R2268035 | | | | | | | |
| WG1367458-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 107 | | % | | 70-130 | 12-OCT-11 |
| WG1367458-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 97 | | % | | 70-130 | 12-OCT-11 |
| WG1367458-4 | DUP | L1062716-1 | | | | | | |
| Mercury (Hg)-Total | | 0.119 | 0.116 | | mg/kg | 2.8 | 40 | 12-OCT-11 |
| WG1367458-5 | DUP | L1062761-1 | | | | | | |



Quality Control Report

Workorder: L1062730

Report Date: 13-OCT-11

Page 2 of 15

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2268035 | | | | | | | |
| WG1367458-5 | DUP | L1062761-1 | | | | | | |
| Mercury (Hg)-Total | | 0.126 | 0.123 | | mg/kg | 3.0 | 40 | 12-OCT-11 |
| WG1367458-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 12-OCT-11 |
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 113 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 93 | | % | | 70-130 | 29-SEP-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 105 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 89 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Titanium (Ti) | | | 112 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |



Quality Control Report

Workorder: L1062730

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |
| Aluminum (Al) | | | 73 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 86 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 106 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 123 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 85 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 87 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 79 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 75 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Aluminum (Al) | | 6440 | 6690 | | mg/kg | 3.8 | 40 | 29-SEP-11 |
| Arsenic (As) | | 7.64 | 7.96 | | mg/kg | 4.1 | 30 | 29-SEP-11 |
| Barium (Ba) | | 60.5 | 65.4 | | mg/kg | 7.8 | 40 | 29-SEP-11 |
| Bismuth (Bi) | | 0.087 | 0.075 | | mg/kg | 15 | 30 | 29-SEP-11 |
| Boron (B) | | 2.8 | 3.4 | | mg/kg | 20 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 4.76 | 4.86 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 3140 | 3540 | | mg/kg | 12 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062730

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Cesium (Cs) | | 0.407 | 0.423 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 11.8 | 13.2 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 117 | 136 | | mg/kg | 16 | 30 | 29-SEP-11 |
| Copper (Cu) | | 427 | 462 | | mg/kg | 8.0 | 30 | 29-SEP-11 |
| Iron (Fe) | | 25800 | 25200 | | mg/kg | 2.3 | 30 | 29-SEP-11 |
| Lead (Pb) | | 10.9 | 9.63 | | mg/kg | 13 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 1760 | 1940 | | mg/kg | 9.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 105 | 126 | | mg/kg | 18 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.764 | 0.848 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 38.4 | 43.2 | | mg/kg | 12 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 510 | 530 | | mg/kg | 3.9 | 30 | 29-SEP-11 |
| Potassium (K) | | 575 | 595 | | mg/kg | 3.4 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 4.56 | 5.53 | | mg/kg | 19 | 30 | 29-SEP-11 |
| Selenium (Se) | | 2.66 | 2.73 | | mg/kg | 2.9 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.14 | 0.15 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Sodium (Na) | | 231 | 282 | | mg/kg | 20 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 9.69 | 12.1 | | mg/kg | 22 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 187 | 200 | | mg/kg | 6.5 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.090 | 0.084 | | mg/kg | 6.8 | 30 | 29-SEP-11 |
| Uranium (U) | | 0.613 | 0.563 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 17.3 | 19.1 | | mg/kg | 9.9 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 4890 | 5140 | | mg/kg | 5.1 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 2.82 | 3.07 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Aluminum (Al) | | 30500 | 29800 | | mg/kg | 2.1 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 3.19 | 3.15 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.15 | | mg/kg | 3.3 | 30 | 29-SEP-11 |
| Barium (Ba) | | 133 | 130 | | mg/kg | 2.8 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.86 | 0.88 | | mg/kg | 2.8 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.189 | 0.177 | | mg/kg | 6.4 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062730

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Boron (B) | | 14.7 | 15.0 | | mg/kg | 2.1 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.574 | 0.513 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 9960 | 9830 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 2.47 | 2.43 | | mg/kg | 1.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 72.9 | 73.2 | | mg/kg | 0.35 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.9 | 19.3 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Copper (Cu) | | 43.9 | 43.0 | | mg/kg | 2.2 | 30 | 29-SEP-11 |
| Iron (Fe) | | 37500 | 38900 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Lead (Pb) | | 14.9 | 13.6 | | mg/kg | 9.6 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 12800 | 12900 | | mg/kg | 0.32 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 454 | 448 | | mg/kg | 1.4 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.327 | 0.330 | | mg/kg | 1.1 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 45.7 | 44.9 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 500 | 500 | | mg/kg | 1.0 | 30 | 29-SEP-11 |
| Potassium (K) | | 5850 | 5880 | | mg/kg | 0.64 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 67.7 | 66.9 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.54 | 1.43 | | mg/kg | 7.3 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.18 | 0.19 | | mg/kg | 4.7 | 40 | 29-SEP-11 |
| Sodium (Na) | | 436 | 468 | | mg/kg | 7.0 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 38.3 | 38.7 | | mg/kg | 0.94 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.32 | 0.29 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 1320 | 1330 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 5.2 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.32 | 1.24 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 65.6 | 66.1 | | mg/kg | 0.83 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 670 | 660 | | mg/kg | 1.6 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 24.9 | 26.4 | | mg/kg | 5.6 | 30 | 29-SEP-11 |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Aluminum (Al) | | 21900 | 21200 | | mg/kg | 3.3 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 4.10 | 4.16 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.43 | | mg/kg | 0.32 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062730

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Barium (Ba) | | 111 | 110 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.59 | 0.54 | | mg/kg | 9.6 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.140 | 0.144 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Boron (B) | | 18.9 | 17.5 | | mg/kg | 7.9 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.714 | 0.714 | | mg/kg | 0.020 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 13400 | 13200 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 1.97 | 1.90 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 55.1 | 53.0 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.3 | 18.5 | | mg/kg | 4.0 | 30 | 29-SEP-11 |
| Copper (Cu) | | 41.0 | 40.9 | | mg/kg | 0.23 | 30 | 29-SEP-11 |
| Iron (Fe) | | 28200 | 29200 | | mg/kg | 3.4 | 30 | 29-SEP-11 |
| Lead (Pb) | | 9.92 | 10.5 | | mg/kg | 6.1 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 9610 | 9490 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 701 | 656 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.532 | 0.535 | | mg/kg | 0.44 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 33.0 | 32.7 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 620 | 620 | | mg/kg | 0.48 | 30 | 29-SEP-11 |
| Potassium (K) | | 4260 | 4280 | | mg/kg | 0.47 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 51.8 | 48.3 | | mg/kg | 7.1 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.88 | 1.90 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.15 | 0.16 | | mg/kg | 7.2 | 40 | 29-SEP-11 |
| Sodium (Na) | | 351 | 354 | | mg/kg | 0.81 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 45.8 | 42.9 | | mg/kg | 6.7 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.23 | 0.24 | | mg/kg | 4.7 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 955 | 979 | | mg/kg | 2.6 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.112 | 0.125 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.31 | 1.33 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 48.8 | 48.5 | | mg/kg | 0.73 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 405 | 413 | | mg/kg | 2.0 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 20.1 | 20.1 | | mg/kg | 0.13 | 30 | 29-SEP-11 |
| WG1359420-1 | MB | | | | | | | |



Quality Control Report

Workorder: L1062730

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 29-SEP-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 29-SEP-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |



Quality Control Report

Workorder: L1062730

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Batch | R2262196 | | | | | | | |
| WG1359926-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Antimony (Sb) | | | 116 | | % | | 70-130 | 30-SEP-11 |
| Arsenic (As) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Barium (Ba) | | | 84 | | % | | 70-130 | 30-SEP-11 |
| Beryllium (Be) | | | 85 | | % | | 70-130 | 30-SEP-11 |
| Boron (B) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Cadmium (Cd) | | | 103 | | % | | 70-130 | 30-SEP-11 |
| Calcium (Ca) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Chromium (Cr) | | | 95 | | % | | 70-130 | 30-SEP-11 |
| Cobalt (Co) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Copper (Cu) | | | 104 | | % | | 70-130 | 30-SEP-11 |
| Iron (Fe) | | | 96 | | % | | 70-130 | 30-SEP-11 |
| Lead (Pb) | | | 96 | | % | | 70-130 | 30-SEP-11 |
| Magnesium (Mg) | | | 90 | | % | | 70-130 | 30-SEP-11 |
| Manganese (Mn) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Molybdenum (Mo) | | | 104 | | % | | 70-130 | 30-SEP-11 |
| Nickel (Ni) | | | 90 | | % | | 70-130 | 30-SEP-11 |
| Phosphorus (P) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Potassium (K) | | | 86 | | % | | 70-130 | 30-SEP-11 |
| Selenium (Se) | | | 98 | | % | | 70-130 | 30-SEP-11 |
| Silver (Ag) | | | 114 | | % | | 70-130 | 30-SEP-11 |
| Sodium (Na) | | | 86 | | % | | 70-130 | 30-SEP-11 |
| Strontium (Sr) | | | 103 | | % | | 70-130 | 30-SEP-11 |
| Thallium (Tl) | | | 91 | | % | | 70-130 | 30-SEP-11 |
| Tin (Sn) | | | 105 | | % | | 70-130 | 30-SEP-11 |
| Titanium (Ti) | | | 103 | | % | | 70-130 | 30-SEP-11 |
| Uranium (U) | | | 85 | | % | | 70-130 | 30-SEP-11 |
| Vanadium (V) | | | 100 | | % | | 70-130 | 30-SEP-11 |
| Zinc (Zn) | | | 93 | | % | | 70-130 | 30-SEP-11 |
| WG1359926-3 | CRM | NRC MESS-3 | | | | | | |



Quality Control Report

Workorder: L1062730

Report Date: 13-OCT-11

Page 9 of 15

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-3 | CRM | NRC MESS-3 | | | | | | |
| Antimony (Sb) | | | 92 | | % | | 70-130 | 30-SEP-11 |
| Arsenic (As) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Barium (Ba) | | | 96 | | % | | 70-130 | 30-SEP-11 |
| Beryllium (Be) | | | 75 | | % | | 70-130 | 30-SEP-11 |
| Cadmium (Cd) | | | 88 | | % | | 70-130 | 30-SEP-11 |
| Calcium (Ca) | | | 106 | | % | | 70-130 | 30-SEP-11 |
| Chromium (Cr) | | | 81 | | % | | 70-130 | 30-SEP-11 |
| Cobalt (Co) | | | 98 | | % | | 70-130 | 30-SEP-11 |
| Copper (Cu) | | | 100 | | % | | 70-130 | 30-SEP-11 |
| Iron (Fe) | | | 96 | | % | | 70-130 | 30-SEP-11 |
| Lead (Pb) | | | 89 | | % | | 70-130 | 30-SEP-11 |
| Magnesium (Mg) | | | 88 | | % | | 70-130 | 30-SEP-11 |
| Manganese (Mn) | | | 104 | | % | | 70-130 | 30-SEP-11 |
| Molybdenum (Mo) | | | 100 | | % | | 70-130 | 30-SEP-11 |
| Nickel (Ni) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Phosphorus (P) | | | 88 | | % | | 70-130 | 30-SEP-11 |
| Potassium (K) | | | 75 | | % | | 70-130 | 30-SEP-11 |
| Selenium (Se) | | | 118 | | % | | 70-130 | 30-SEP-11 |
| Silver (Ag) | | | 108 | | % | | 70-130 | 30-SEP-11 |
| Sodium (Na) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Strontium (Sr) | | | 97 | | % | | 70-130 | 30-SEP-11 |
| Tin (Sn) | | | 109 | | % | | 70-130 | 30-SEP-11 |
| Uranium (U) | | | 86 | | % | | 70-130 | 30-SEP-11 |
| Vanadium (V) | | | 74 | | % | | 70-130 | 30-SEP-11 |
| Zinc (Zn) | | | 98 | | % | | 70-130 | 30-SEP-11 |
| WG1359926-5 | DUP | WG1359926-4 | | | | | | |
| Aluminum (Al) | | 4610 | 4150 | | mg/kg | 10 | 40 | 30-SEP-11 |
| Antimony (Sb) | | 0.36 | 0.35 | | mg/kg | 0.93 | 30 | 30-SEP-11 |
| Arsenic (As) | | 15.4 | 13.5 | | mg/kg | 13 | 30 | 30-SEP-11 |
| Barium (Ba) | | 55.8 | 52.9 | | mg/kg | 5.4 | 40 | 30-SEP-11 |
| Beryllium (Be) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Bismuth (Bi) | | 0.120 | 0.112 | | mg/kg | 6.9 | 30 | 30-SEP-11 |
| Boron (B) | | 4.5 | 3.7 | | mg/kg | 19 | 30 | 30-SEP-11 |



Quality Control Report

Workorder: L1062730

Report Date: 13-OCT-11

Page 10 of 15

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-5 | DUP | WG1359926-4 | | | | | | |
| Cadmium (Cd) | | 7.99 | 7.73 | | mg/kg | 3.4 | 30 | 30-SEP-11 |
| Calcium (Ca) | | 2930 | 2740 | | mg/kg | 6.8 | 30 | 30-SEP-11 |
| Cesium (Cs) | | 0.337 | 0.292 | | mg/kg | 14 | 30 | 30-SEP-11 |
| Chromium (Cr) | | 8.8 | 7.9 | | mg/kg | 11 | 30 | 30-SEP-11 |
| Cobalt (Co) | | 134 | 124 | | mg/kg | 8.3 | 30 | 30-SEP-11 |
| Copper (Cu) | | 640 | 636 | | mg/kg | 0.62 | 30 | 30-SEP-11 |
| Iron (Fe) | | 46100 | 45700 | | mg/kg | 0.91 | 30 | 30-SEP-11 |
| Lead (Pb) | | 18.5 | 17.4 | | mg/kg | 6.5 | 40 | 30-SEP-11 |
| Magnesium (Mg) | | 1340 | 1220 | | mg/kg | 9.1 | 30 | 30-SEP-11 |
| Manganese (Mn) | | 114 | 104 | | mg/kg | 9.1 | 30 | 30-SEP-11 |
| Molybdenum (Mo) | | 0.804 | 0.830 | | mg/kg | 3.3 | 40 | 30-SEP-11 |
| Nickel (Ni) | | 36.4 | 33.5 | | mg/kg | 8.3 | 30 | 30-SEP-11 |
| Phosphorus (P) | | 510 | 460 | | mg/kg | 10 | 30 | 30-SEP-11 |
| Potassium (K) | | 483 | 406 | | mg/kg | 17 | 40 | 30-SEP-11 |
| Rubidium (Rb) | | 4.09 | 3.66 | | mg/kg | 11 | 30 | 30-SEP-11 |
| Selenium (Se) | | 3.09 | 2.64 | | mg/kg | 16 | 30 | 30-SEP-11 |
| Silver (Ag) | | 0.22 | 0.20 | | mg/kg | 12 | 40 | 30-SEP-11 |
| Sodium (Na) | | 210 | 209 | | mg/kg | 0.46 | 40 | 30-SEP-11 |
| Strontium (Sr) | | 10.1 | 10.1 | | mg/kg | 0.39 | 40 | 30-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Thallium (Tl) | | 0.11 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 30-SEP-11 |
| Titanium (Ti) | | 167 | 138 | | mg/kg | 19 | 40 | 30-SEP-11 |
| Tungsten (W) | | 0.117 | 0.120 | | mg/kg | 2.4 | 30 | 30-SEP-11 |
| Uranium (U) | | 0.595 | 0.568 | | mg/kg | 4.7 | 30 | 30-SEP-11 |
| Vanadium (V) | | 15.0 | 13.6 | | mg/kg | 10 | 30 | 30-SEP-11 |
| Zinc (Zn) | | 9060 | 8750 | | mg/kg | 3.6 | 30 | 30-SEP-11 |
| Zirconium (Zr) | | 1.77 | 1.66 | | mg/kg | 6.1 | 30 | 30-SEP-11 |
| WG1359926-7 | DUP | WG1359926-6 | | | | | | |
| Aluminum (Al) | | 4040 | 3980 | | mg/kg | 1.4 | 40 | 30-SEP-11 |
| Antimony (Sb) | | 0.16 | 0.17 | | mg/kg | 8.9 | 30 | 30-SEP-11 |
| Arsenic (As) | | 19.8 | 18.9 | | mg/kg | 4.6 | 30 | 30-SEP-11 |
| Barium (Ba) | | 60.9 | 61.6 | | mg/kg | 1.2 | 40 | 30-SEP-11 |



Quality Control Report

Workorder: L1062730

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-7 | DUP | WG1359926-6 | | | | | | |
| Beryllium (Be) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Bismuth (Bi) | | 0.113 | 0.093 | | mg/kg | 19 | 30 | 30-SEP-11 |
| Boron (B) | | 8.3 | 8.4 | | mg/kg | 1.6 | 30 | 30-SEP-11 |
| Cadmium (Cd) | | 0.656 | 0.609 | | mg/kg | 7.4 | 30 | 30-SEP-11 |
| Calcium (Ca) | | 10100 | 10400 | | mg/kg | 3.4 | 30 | 30-SEP-11 |
| Cesium (Cs) | | 0.364 | 0.336 | | mg/kg | 7.9 | 30 | 30-SEP-11 |
| Chromium (Cr) | | 13.2 | 11.7 | | mg/kg | 12 | 30 | 30-SEP-11 |
| Cobalt (Co) | | 6.71 | 6.28 | | mg/kg | 6.6 | 30 | 30-SEP-11 |
| Copper (Cu) | | 16.3 | 16.3 | | mg/kg | 0.16 | 30 | 30-SEP-11 |
| Iron (Fe) | | 19100 | 18200 | | mg/kg | 4.8 | 30 | 30-SEP-11 |
| Lead (Pb) | | 10.3 | 9.93 | | mg/kg | 3.2 | 40 | 30-SEP-11 |
| Magnesium (Mg) | | 1370 | 1360 | | mg/kg | 0.98 | 30 | 30-SEP-11 |
| Manganese (Mn) | | 325 | 321 | | mg/kg | 1.3 | 30 | 30-SEP-11 |
| Molybdenum (Mo) | | 0.953 | 0.936 | | mg/kg | 1.8 | 40 | 30-SEP-11 |
| Nickel (Ni) | | 14.3 | 13.2 | | mg/kg | 8.4 | 30 | 30-SEP-11 |
| Phosphorus (P) | | 710 | 700 | | mg/kg | 1.4 | 30 | 30-SEP-11 |
| Potassium (K) | | 466 | 441 | | mg/kg | 5.7 | 40 | 30-SEP-11 |
| Rubidium (Rb) | | 3.36 | 3.40 | | mg/kg | 1.3 | 30 | 30-SEP-11 |
| Selenium (Se) | | 0.95 | 0.93 | | mg/kg | 2.7 | 30 | 30-SEP-11 |
| Silver (Ag) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 40 | 30-SEP-11 |
| Sodium (Na) | | 85 | 82 | | mg/kg | 2.8 | 40 | 30-SEP-11 |
| Strontium (Sr) | | 17.8 | 16.6 | | mg/kg | 7.0 | 40 | 30-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Thallium (Tl) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 30-SEP-11 |
| Titanium (Ti) | | 78.0 | 83.4 | | mg/kg | 6.7 | 40 | 30-SEP-11 |
| Tungsten (W) | | 0.136 | 0.125 | | mg/kg | 8.3 | 30 | 30-SEP-11 |
| Uranium (U) | | 0.278 | 0.273 | | mg/kg | 1.9 | 30 | 30-SEP-11 |
| Vanadium (V) | | 9.96 | 9.50 | | mg/kg | 4.8 | 30 | 30-SEP-11 |
| Zinc (Zn) | | 117 | 113 | | mg/kg | 3.2 | 30 | 30-SEP-11 |
| Zirconium (Zr) | | 3.16 | 2.95 | | mg/kg | 7.0 | 30 | 30-SEP-11 |
| WG1359926-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 30-SEP-11 |



Quality Control Report

Workorder: L1062730

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | Soil | | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-1 | MB | | | | | | | |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 30-SEP-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 30-SEP-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 30-SEP-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 30-SEP-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 30-SEP-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 30-SEP-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 30-SEP-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 30-SEP-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 30-SEP-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 30-SEP-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 30-SEP-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 30-SEP-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 30-SEP-11 |



Quality Control Report

Workorder: L1062730

Report Date: 13-OCT-11

Page 13 of 15

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed | |
|-------------------------|--------|-------------|--------|-----------|-------|-------|-------------|-----------|-----------|
| MET-200.2-MS-WP | | | | | | | | | |
| Soil | | | | | | | | | |
| Batch R2262196 | | | | | | | | | |
| WG1359926-1 MB | | | | | | | | | |
| Zirconium (Zr) | | | | | | | | | |
| | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 | |
| N-TOT-LECO-SK | | | | | | | | | |
| Soil | | | | | | | | | |
| Batch R2263333 | | | | | | | | | |
| WG1360057-1 DUP | | | | | | | | | |
| Total Nitrogen by LECO | | | | | | | | | |
| | | L1062730-5 | 3.19 | 3.18 | J | % | 0.012 | 0.05 | 01-OCT-11 |
| WG1360057-2 IRM | | | | | | | | | |
| Total Nitrogen by LECO | | | | | | | | | |
| | | 08-109_SOIL | 0.110 | | | % | 0.085-0.135 | 01-OCT-11 | |
| WG1360057-3 MB | | | | | | | | | |
| Total Nitrogen by LECO | | | | | | | | | |
| | | | <0.020 | | % | | 0.02 | 01-OCT-11 | |
| P-SALM-ICP-SK | | | | | | | | | |
| Soil | | | | | | | | | |
| Batch R2263935 | | | | | | | | | |
| WG1359961-2 CRM | | | | | | | | | |
| Phosphorus, Total | | | | | | | | | |
| | | SS-1_SOIL | 1080 | | mg/kg | | 750-1530 | 04-OCT-11 | |
| WG1359961-4 DUP | | | | | | | | | |
| Phosphorus, Total | | | | | | | | | |
| | | L1062760-6 | 426 | 441 | | mg/kg | 3.5 | 30 | 04-OCT-11 |
| WG1359961-5 DUP | | | | | | | | | |
| Phosphorus, Total | | | | | | | | | |
| | | L1062732-6 | 668 | 652 | | mg/kg | 2.5 | 30 | 04-OCT-11 |
| WG1359961-1 MB | | | | | | | | | |
| Phosphorus, Total | | | | | | | | | |
| | | | <50 | | mg/kg | | 50 | 04-OCT-11 | |
| PSA-3-SK | | | | | | | | | |
| Soil | | | | | | | | | |
| Batch R2264462 | | | | | | | | | |
| WG1360043-1 DUP | | | | | | | | | |
| % Sand (2.0mm - 0.05mm) | | | | | | | | | |
| | | L1062763-4 | 25.7 | 25.4 | J | % | 0.22 | 10 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | | | | | | | | |
| | | | 31.9 | 30.1 | J | % | 1.81 | 10 | 05-OCT-11 |
| % Clay (<2um) | | | | | | | | | |
| | | | 42.4 | 44.5 | J | % | 2.03 | 10 | 05-OCT-11 |
| WG1360043-2 IRM | | | | | | | | | |
| % Sand (2.0mm - 0.05mm) | | | | | | | | | |
| | | FARM2009 | 49.9 | | | % | 45-55 | 05-OCT-11 | |
| % Silt (0.05mm - 2um) | | | | | | | | | |
| | | | 33.4 | | | % | 29-39 | 05-OCT-11 | |
| % Clay (<2um) | | | | | | | | | |
| | | | 16.7 | | | % | 10-20 | 05-OCT-11 | |

Quality Control Report

Workorder: L1062730

Report Date: 13-OCT-11

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

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Contact: Clifton Samoiloff

Legend:

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

Sample Parameter Qualifier Definitions:

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

Quality Control Report

Workorder: L1062730

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Moisture Content | | | | | | | |
| | 1 | 15-SEP-11 09:30 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 2 | 15-SEP-11 09:40 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 3 | 15-SEP-11 09:45 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 4 | 15-SEP-11 10:30 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 5 | 15-SEP-11 10:35 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 6 | 15-SEP-11 10:40 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 7 | 15-SEP-11 11:40 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 8 | 15-SEP-11 11:45 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 9 | 15-SEP-11 11:50 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| | 1 | 15-SEP-11 09:30 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 2 | 15-SEP-11 09:40 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 3 | 15-SEP-11 09:45 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 4 | 15-SEP-11 10:30 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 5 | 15-SEP-11 10:35 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 6 | 15-SEP-11 10:40 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 7 | 15-SEP-11 11:40 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 8 | 15-SEP-11 11:45 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 9 | 15-SEP-11 11:50 | 04-OCT-11 00:00 | 14 | 19 | 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 L1062730 were received on 23-SEP-11 15:00.

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.



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



1002730

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

Distribution
 PDF Excel Digital Fax
Other _____

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

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

Client / Project Information
Job #: 60213483
PO / AFE: _____
LSD: _____
Quote #: Q24534

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

| Sample # | Sample Identification (This description will appear on the report) | Date (dd-mmm-yy) | Sampler: | | Number of Containers |
|----------|---|---------------------|-----------------|-------------|----------------------|
| | | | Time (hh:mm) | Sample Type | |
| | THL-01A | 15-Sep-11 | 9:30 | Sediment | 2 |
| | THL-01B | 15-Sep-11 | 9:40 | Sediment | 1 |
| | THL-01C | 15-Sep-11 | 9:45 | Sediment | 1 |
| | THL-02A | 15-Sep-11 | 10:30 | Sediment | 2 |
| | THL-02B | 15-Sep-11 | 10:35 | Sediment | 1 |
| | THL-02C | 15-Sep-11 | 10:40 | Sediment | 1 |
| | THL-03A | 15-Sep-11 | 11:40 | Sediment | 2 |
| | THL-03B | 15-Sep-11 | 11:45 | Sediment | 1 |
| | THL-03C | 15-Sep-11 | 11:50 | Sediment | 1 |

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

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

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.

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

SHIPMENT RELEASE (client use)
Released by: _____ Date (dd-mmm-yy): 22-Sep-11 Time (hh-mm): 14:35

SHIPMENT RECEPTION (lab use only)
Received by: _____ Date: 23-Sep-11 Time: 08:00

SHIPMENT VERIFICATION (lab use only)
Verified by: _____ Date: _____ Time: _____

Observations: Yes / No? If Yes add SIF



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

Date Received: 23-SEP-11
Report Date: 13-OCT-11 13:33 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062732
Project P.O. #: NOT SUBMITTED
Job Reference: 60212443
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------------------------|------------|-------|-------|-----------|-----------|----------|
| L1062732-1 | GHL-01A | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 10:13 | | | | | | |
| Matrix: | SEDIMENT | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.16 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 32.4 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.34 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 32.6 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.087 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 97.3 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 2.87 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 529 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 2.82 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 77.9 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 19.3 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Silt loam | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Metals | | | | | | | |
| Aluminum (Al) | 4690 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.24 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 39.5 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 98.1 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.101 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 8.5 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 0.380 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 9800 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.471 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 8.3 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 5.15 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 25.2 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 5570 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 7.25 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 2110 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 166 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 1.28 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 12.6 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Phosphorus (P) | 550 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 563 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 5.67 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Selenium (Se) | 1.11 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 161 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 35.2 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Titanium (Ti) | 170 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.062 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.528 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 12.6 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zinc (Zn) | 71 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|--------|------------|-------|-------|-----------|-----------|----------|
| L1062732-1 GHL-01A Sampled By: CLIENT on 14-SEP-11 @ 10:13 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 3.17 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062732-2 GHL-01B Sampled By: CLIENT on 14-SEP-11 @ 10:25 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.16 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Organic Carbon | 27.6 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| CaCO3 Equivalent | 1.36 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263335 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 27.8 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.146 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 97.7 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 2.55 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263333 |
| Phosphorus, Total | 785 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 4600 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.41 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 45.4 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 84.2 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | 0.14 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.188 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 8.8 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 0.936 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 9150 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.449 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 8.1 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 6.11 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 32.5 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 8120 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 27.2 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 2300 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 178 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 0.956 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 11.9 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Phosphorus (P) | 710 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 629 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 5.64 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Selenium (Se) | 1.21 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | 0.18 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 125 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 25.9 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Titanium (Ti) | 148 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.133 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.440 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 13.0 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zinc (Zn) | 358 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------------------------|------------|-------|-------|-----------|-----------|----------|
| L1062732-2 | GHL-01B | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 10:25 | | | | | | |
| Matrix: | SEDIMENT | | | | | | |
| Metals | | | | | | | |
| Zirconium (Zr) | 2.62 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062732-3 | GHL-01C | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 10:33 | | | | | | |
| Matrix: | SEDIMENT | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.13 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 31.0 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.08 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 31.1 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.147 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 96.4 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 2.80 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 744 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 5430 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Antimony (Sb) | 0.51 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Arsenic (As) | 44.6 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Barium (Ba) | 93.7 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Beryllium (Be) | 0.13 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Bismuth (Bi) | 0.230 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Boron (B) | 8.8 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cadmium (Cd) | 1.06 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Calcium (Ca) | 9050 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cesium (Cs) | 0.563 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Chromium (Cr) | 9.5 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Cobalt (Co) | 6.33 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Copper (Cu) | 33.1 | | 1.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Iron (Fe) | 8640 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Lead (Pb) | 31.7 | | 0.20 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Magnesium (Mg) | 2530 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Manganese (Mn) | 201 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Molybdenum (Mo) | 1.07 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Nickel (Ni) | 13.2 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Phosphorus (P) | 680 | | 100 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Potassium (K) | 756 | | 25 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Rubidium (Rb) | 7.63 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Selenium (Se) | 1.21 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Silver (Ag) | 0.22 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Sodium (Na) | 119 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Strontium (Sr) | 27.6 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tellurium (Te) | 0.11 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Titanium (Ti) | 198 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Tungsten (W) | 0.154 | | 0.050 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Uranium (U) | 0.488 | | 0.020 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Vanadium (V) | 15.7 | | 0.50 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| Zinc (Zn) | 230 | | 10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------|------------|-------|-------|-----------|-----------|----------|
| L1062732-3 GHL-01C Sampled By: CLIENT on 14-SEP-11 @ 10:33 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 3.56 | | 0.10 | mg/kg | 29-SEP-11 | 30-SEP-11 | R2262196 |
| L1062732-4 GHL-02A Sampled By: CLIENT on 14-SEP-11 @ 11:05 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.22 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 32.6 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.87 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 32.8 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.060 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 97.6 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 2.97 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 599 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 1.22 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 79.0 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 19.8 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Silt loam | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Note: Results Unreliable. Insufficient soil for analysis. | | | | | | | |
| Metals | | | | | | | |
| Aluminum (Al) | 4690 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Antimony (Sb) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Arsenic (As) | 37.9 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Barium (Ba) | 71.0 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Beryllium (Be) | 0.13 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Bismuth (Bi) | 0.030 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Boron (B) | 7.7 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cadmium (Cd) | 0.278 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Calcium (Ca) | 8510 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cesium (Cs) | 0.390 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Chromium (Cr) | 8.3 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cobalt (Co) | 5.21 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Copper (Cu) | 27.4 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Iron (Fe) | 5590 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Lead (Pb) | 2.41 | | 0.20 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Magnesium (Mg) | 1780 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Manganese (Mn) | 135 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Molybdenum (Mo) | 1.23 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Nickel (Ni) | 11.7 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Phosphorus (P) | 630 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Potassium (K) | 537 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Rubidium (Rb) | 5.03 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Selenium (Se) | 1.17 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Sodium (Na) | 188 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Strontium (Sr) | 31.3 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|--------|------------|-------|-------|-----------|-----------|----------|
| L1062732-4 | | | | | | | |
| GHL-02A | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 11:05 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Titanium (Ti) | 89.0 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tungsten (W) | 0.055 | | 0.050 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Uranium (U) | 0.558 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Vanadium (V) | 12.4 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zinc (Zn) | 68 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zirconium (Zr) | 1.05 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| L1062732-5 | | | | | | | |
| GHL-02B | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 11:14 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.16 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 31.9 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.33 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 32.1 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.164 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 97.6 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 3.03 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 943 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 5170 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Antimony (Sb) | 0.62 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Arsenic (As) | 48.8 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Barium (Ba) | 72.4 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Beryllium (Be) | 0.15 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Bismuth (Bi) | 0.274 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Boron (B) | 9.1 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cadmium (Cd) | 1.08 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Calcium (Ca) | 8930 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cesium (Cs) | 0.482 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Chromium (Cr) | 8.8 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cobalt (Co) | 6.57 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Copper (Cu) | 38.8 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Iron (Fe) | 8840 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Lead (Pb) | 33.4 | | 0.20 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Magnesium (Mg) | 2180 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Manganese (Mn) | 187 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Molybdenum (Mo) | 1.18 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Nickel (Ni) | 12.9 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Phosphorus (P) | 790 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Potassium (K) | 681 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Rubidium (Rb) | 6.22 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Selenium (Se) | 1.45 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Silver (Ag) | 0.22 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Sodium (Na) | 166 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Strontium (Sr) | 26.8 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tellurium (Te) | 0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|--------|------------|-------|-------|-----------|-----------|----------|
| L1062732-5 | | | | | | | |
| GHL-02B | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 11:14 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Titanium (Ti) | 148 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tungsten (W) | 0.144 | | 0.050 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Uranium (U) | 0.551 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Vanadium (V) | 13.8 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zinc (Zn) | 246 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zirconium (Zr) | 2.98 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| L1062732-6 | | | | | | | |
| GHL-02C | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 11:23 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.14 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 32.4 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.16 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 32.6 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.138 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 96.9 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 2.92 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 668 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 5220 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Antimony (Sb) | 0.51 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Arsenic (As) | 46.6 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Barium (Ba) | 75.4 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Beryllium (Be) | 0.11 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Bismuth (Bi) | 0.321 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Boron (B) | 7.6 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cadmium (Cd) | 0.898 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Calcium (Ca) | 8950 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cesium (Cs) | 0.499 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Chromium (Cr) | 9.5 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cobalt (Co) | 6.32 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Copper (Cu) | 31.7 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Iron (Fe) | 8250 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Lead (Pb) | 24.5 | | 0.20 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Magnesium (Mg) | 2090 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Manganese (Mn) | 175 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Molybdenum (Mo) | 1.15 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Nickel (Ni) | 13.1 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Phosphorus (P) | 610 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Potassium (K) | 621 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Rubidium (Rb) | 6.43 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Selenium (Se) | 1.27 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Silver (Ag) | 0.11 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Sodium (Na) | 151 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Strontium (Sr) | 28.0 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062732-6 | | | | | | | |
| GHL-02C | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 11:23 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Titanium (Ti) | 143 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tungsten (W) | 0.094 | | 0.050 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Uranium (U) | 0.529 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Vanadium (V) | 14.0 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zinc (Zn) | 112 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zirconium (Zr) | 2.99 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| L1062732-7 | | | | | | | |
| GHL-03A | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 12:51 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.14 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 33.1 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.20 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 33.2 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.166 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 97.6 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 3.03 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 727 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 1.72 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 89.2 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 9.09 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Silt | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Note: Results Unreliable. Insufficient soil for analysis. | | | | | | | |
| Metals | | | | | | | |
| Aluminum (Al) | 4750 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.53 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 44.0 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 67.8 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.12 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.229 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 9.3 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 1.19 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 9240 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 0.405 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 9.1 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 5.54 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 39.4 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 7850 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 36.3 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 2130 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 174 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 1.07 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 11.5 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 710 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|--------|------------|-------|-------|-----------|-----------|----------|
| L1062732-7 | | | | | | | |
| GHL-03A | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 12:51 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Potassium (K) | 586 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 4.71 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 1.40 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.23 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 188 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 26.1 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 130 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.145 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 0.519 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 12.3 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 365 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 2.34 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062732-8 | | | | | | | |
| GHL-03B | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 12:58 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.13 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 33.3 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.08 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 33.4 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.097 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 97.2 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 2.99 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 619 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 3900 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 0.35 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 29.3 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 68.2 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.311 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 6.2 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.528 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 7970 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 0.372 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 8.1 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 3.79 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 22.1 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 5400 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 12.7 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 1580 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 156 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.957 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 10.0 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 450 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------------------------|------------|-------|-------|-----------|-----------|----------|
| L1062732-8 | GHL-03B | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 12:58 | | | | | | |
| Matrix: | SEDIMENT | | | | | | |
| Metals | | | | | | | |
| Potassium (K) | 419 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 4.47 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 0.97 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 137 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 26.0 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 121 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.055 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 0.449 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 10.3 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 60 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 2.62 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062732-9 | GHL-03C | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 13:03 | | | | | | |
| Matrix: | SEDIMENT | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.22 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 33.0 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.81 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 33.2 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.054 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 97.1 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 2.95 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 535 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 4300 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 31.7 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 75.9 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.12 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.029 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 6.8 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.243 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 8240 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 0.409 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 9.0 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 3.94 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 25.0 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 5250 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 2.57 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 1780 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 138 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 1.22 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 10.3 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 450 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062732-9 | | | | | | | |
| GHL-03C | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 13:03 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Potassium (K) | 512 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 5.41 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 1.02 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 177 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 31.1 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 152 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | <0.050 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 0.576 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 11.9 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 61 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 2.09 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

Reference Information

Sample Parameter Qualifier Key:

| Qualifier | Description |
|-----------|----------------------------------|
| UMI | Unreliable: Matrix interference. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

| | | | |
|----------------|------|------------------------------|----------------------|
| C-INORG-ORG-SK | Soil | Inorganic and Organic Carbon | SSSA (1996) P455-456 |
|----------------|------|------------------------------|----------------------|

When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.

Reference:

Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|---------------|------|-----------------------------------|------------------------|
| C-TOT-LECO-SK | Soil | Total Carbon by combustion method | SSSA (1996) P. 973-974 |
|---------------|------|-----------------------------------|------------------------|

The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference:

Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|------------------|------|---------------|----------------------|
| HG-200.2-CVAF-WP | Soil | Mercury Total | EPA 7470A Rev 1,1994 |
|------------------|------|---------------|----------------------|

A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.

| | | | |
|-----------------|------|--------|--------------------------|
| MET-200.2-MS-WP | Soil | Metals | EPA 200.8/200.2 /BCMOE-S |
|-----------------|------|--------|--------------------------|

This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements. Soil samples are dried (<60 °C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.

The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.

| | | | |
|----------|------|------------------|---------------|
| MOIST-SK | Soil | Moisture Content | ASTM D2216-80 |
|----------|------|------------------|---------------|

The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.

Reference: ASTM D2216-80

| | | | |
|---------------|------|-------------------------------------|------------------------|
| N-TOT-LECO-SK | Soil | Total Nitrogen by combustion method | SSSA (1996) p. 973-974 |
|---------------|------|-------------------------------------|------------------------|

The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|---------------|------|------------------|-----------|
| P-SALM-ICP-SK | Soil | Total Phosphorus | EPA 200.2 |
|---------------|------|------------------|-----------|

This analysis is carried out using procedures from CSR Analytical Method: "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, 26 June 2009, and procedures adapted from EPA Method 200.2. The sample is dried at 40 °C, then ground to < 2 mm particle size using a stainless steel flail grinder. A representative portion is digested with concentrated nitric and hydrochloric acids for 2 hours in an open vessel digester at 95 degrees. Instrumental analysis of the digested extract is by ICP-OES.

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|--|---------------------------------|
| PSA-3-SK | Soil | Particle size - Pipette removal OM & CO3 | Forestry Canada (1991) p. 46-53 |

Dry, < 2 mm soil is treated hydrochloric acid to remove carbonates, then hydrogen peroxide to remove organic matter. The remaining soil is treated with sodium hexametaphosphate to ensure complete dispersion of primary soil particles. The homogenized suspension is allowed to settle in accordance with Stoke's Law so that only clay particles remain in suspension. To determine the clay fraction, an aliquot of the clay suspension is removed, then dried and weighed. The sand fraction is determined by wet sieving the remaining suspension, then drying and weighing the sand retained on the sieve. The silt fraction is determined by calculation where % Silt = 100 - (%Sand+%Clay)

Reference:

Burt, R. (2009). Soil Survey Field and Laboratory Methods Manual. Soil Survey Investigations Report No. 5. Method 3.2.1.2.2. United States Department of Agriculture Natural Resources Conservation Service.

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| SK | ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA |
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

Page 1 of 21

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|--------|-----------|-------|------|-----------|-----------|
| C-INORG-ORG-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263335 | | | | | | | |
| WG1360092-1 | DUP | L1062730-3 | | | | | | |
| Inorganic Carbon | | 0.15 | 0.18 | | % | 22 | 30 | 04-OCT-11 |
| CaCO3 Equivalent | | 1.21 | 1.52 | | % | 22 | 25 | 04-OCT-11 |
| WG1360092-2 | IRM | 0.4%IC | | | | | | |
| Inorganic Carbon | | | 0.45 | | % | | 0.28-0.52 | 04-OCT-11 |
| CaCO3 Equivalent | | | 3.73 | | % | | 2.33-4.33 | 04-OCT-11 |
| WG1360092-3 | MB | | | | | | | |
| Inorganic Carbon | | | <0.10 | | % | | 0.1 | 04-OCT-11 |
| CaCO3 Equivalent | | | <0.70 | | % | | 1 | 04-OCT-11 |
| Batch | R2264114 | | | | | | | |
| WG1360093-1 | DUP | L1062760-6 | | | | | | |
| Inorganic Carbon | | 0.12 | 0.12 | | % | 0.71 | 30 | 04-OCT-11 |
| CaCO3 Equivalent | | 1.02 | 1.02 | | % | 0.71 | 25 | 04-OCT-11 |
| WG1360093-2 | IRM | 0.4%IC | | | | | | |
| Inorganic Carbon | | | 0.44 | | % | | 0.28-0.52 | 04-OCT-11 |
| CaCO3 Equivalent | | | 3.68 | | % | | 2.33-4.33 | 04-OCT-11 |
| WG1360093-3 | MB | | | | | | | |
| Inorganic Carbon | | | <0.10 | | % | | 0.1 | 04-OCT-11 |
| CaCO3 Equivalent | | | <0.70 | | % | | 1 | 04-OCT-11 |
| C-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263333 | | | | | | | |
| WG1360057-1 | DUP | L1062730-5 | | | | | | |
| Total Carbon by Combustion | | 33.3 | 33.1 | | % | 0.60 | 10 | 01-OCT-11 |
| WG1360057-2 | IRM | 08-109_SOIL | | | | | | |
| Total Carbon by Combustion | | | 1.4 | | % | | 1.1-1.7 | 01-OCT-11 |
| WG1360057-3 | MB | | | | | | | |
| Total Carbon by Combustion | | | <0.1 | | % | | 0.1 | 01-OCT-11 |
| Batch | R2264112 | | | | | | | |
| WG1360059-1 | DUP | L1062761-1 | | | | | | |
| Total Carbon by Combustion | | 31.6 | 31.5 | | % | 0.28 | 10 | 03-OCT-11 |
| WG1360059-2 | IRM | 08-109_SOIL | | | | | | |
| Total Carbon by Combustion | | | 1.6 | | % | | 1.1-1.7 | 03-OCT-11 |
| WG1360059-3 | MB | | | | | | | |
| Total Carbon by Combustion | | | <0.1 | | % | | 0.1 | 03-OCT-11 |
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

Page 2 of 21

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2266580 | | | | | | | |
| WG1364408-2 CRM | | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 109 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-3 CRM | | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 101 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-4 DUP | | L1062760-5 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 06-OCT-11 |
| WG1364408-5 DUP | | L1062716-9 | | | | | | |
| Mercury (Hg)-Total | | 0.066 | 0.078 | | mg/kg | 16 | 40 | 06-OCT-11 |
| WG1364408-1 MB | | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 06-OCT-11 |
| Batch | R2268035 | | | | | | | |
| WG1367458-2 CRM | | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 107 | | % | | 70-130 | 12-OCT-11 |
| WG1367458-3 CRM | | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 97 | | % | | 70-130 | 12-OCT-11 |
| WG1367486-2 CRM | | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 112 | | % | | 70-130 | 12-OCT-11 |
| WG1367486-3 CRM | | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 87 | | % | | 70-130 | 12-OCT-11 |
| WG1367458-4 DUP | | L1062716-1 | | | | | | |
| Mercury (Hg)-Total | | 0.119 | 0.116 | | mg/kg | 2.8 | 40 | 12-OCT-11 |
| WG1367458-5 DUP | | L1062761-1 | | | | | | |
| Mercury (Hg)-Total | | 0.126 | 0.123 | | mg/kg | 3.0 | 40 | 12-OCT-11 |
| WG1367486-4 DUP | | L1062769-1 | | | | | | |
| Mercury (Hg)-Total | | 0.057 | 0.057 | | mg/kg | 0.53 | 40 | 12-OCT-11 |
| WG1367486-5 DUP | | L1062770-3 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 12-OCT-11 |
| WG1367458-1 MB | | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 12-OCT-11 |
| WG1367486-1 MB | | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 12-OCT-11 |
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-2 CRM | | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 113 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 95 | | % | | 70-130 | 29-SEP-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-2 | CRM | NRC PACS-2 | | | | | | |
| Barium (Ba) | | | 93 | | % | | 70-130 | 29-SEP-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 105 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 89 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Titanium (Ti) | | | 112 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |
| Aluminum (Al) | | | 73 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 86 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 106 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 96 | | % | | 70-130 | 29-SEP-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |
| Iron (Fe) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 123 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 85 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 87 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 79 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 75 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Aluminum (Al) | | 6440 | 6690 | | mg/kg | 3.8 | 40 | 29-SEP-11 |
| Arsenic (As) | | 7.64 | 7.96 | | mg/kg | 4.1 | 30 | 29-SEP-11 |
| Barium (Ba) | | 60.5 | 65.4 | | mg/kg | 7.8 | 40 | 29-SEP-11 |
| Bismuth (Bi) | | 0.087 | 0.075 | | mg/kg | 15 | 30 | 29-SEP-11 |
| Boron (B) | | 2.8 | 3.4 | | mg/kg | 20 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 4.76 | 4.86 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 3140 | 3540 | | mg/kg | 12 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 0.407 | 0.423 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 11.8 | 13.2 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 117 | 136 | | mg/kg | 16 | 30 | 29-SEP-11 |
| Copper (Cu) | | 427 | 462 | | mg/kg | 8.0 | 30 | 29-SEP-11 |
| Iron (Fe) | | 25800 | 25200 | | mg/kg | 2.3 | 30 | 29-SEP-11 |
| Lead (Pb) | | 10.9 | 9.63 | | mg/kg | 13 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 1760 | 1940 | | mg/kg | 9.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 105 | 126 | | mg/kg | 18 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.764 | 0.848 | | mg/kg | 11 | 40 | 29-SEP-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Nickel (Ni) | | 38.4 | 43.2 | | mg/kg | 12 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 510 | 530 | | mg/kg | 3.9 | 30 | 29-SEP-11 |
| Potassium (K) | | 575 | 595 | | mg/kg | 3.4 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 4.56 | 5.53 | | mg/kg | 19 | 30 | 29-SEP-11 |
| Selenium (Se) | | 2.66 | 2.73 | | mg/kg | 2.9 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.14 | 0.15 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Sodium (Na) | | 231 | 282 | | mg/kg | 20 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 9.69 | 12.1 | | mg/kg | 22 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 187 | 200 | | mg/kg | 6.5 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.090 | 0.084 | | mg/kg | 6.8 | 30 | 29-SEP-11 |
| Uranium (U) | | 0.613 | 0.563 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 17.3 | 19.1 | | mg/kg | 9.9 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 4890 | 5140 | | mg/kg | 5.1 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 2.82 | 3.07 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Aluminum (Al) | | 30500 | 29800 | | mg/kg | 2.1 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 3.19 | 3.15 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.15 | | mg/kg | 3.3 | 30 | 29-SEP-11 |
| Barium (Ba) | | 133 | 130 | | mg/kg | 2.8 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.86 | 0.88 | | mg/kg | 2.8 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.189 | 0.177 | | mg/kg | 6.4 | 30 | 29-SEP-11 |
| Boron (B) | | 14.7 | 15.0 | | mg/kg | 2.1 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.574 | 0.513 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 9960 | 9830 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 2.47 | 2.43 | | mg/kg | 1.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 72.9 | 73.2 | | mg/kg | 0.35 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.9 | 19.3 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Copper (Cu) | | 43.9 | 43.0 | | mg/kg | 2.2 | 30 | 29-SEP-11 |
| Iron (Fe) | | 37500 | 38900 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Lead (Pb) | | 14.9 | 13.6 | | mg/kg | 9.6 | 40 | 29-SEP-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Magnesium (Mg) | | 12800 | 12900 | | mg/kg | 0.32 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 454 | 448 | | mg/kg | 1.4 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.327 | 0.330 | | mg/kg | 1.1 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 45.7 | 44.9 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 500 | 500 | | mg/kg | 1.0 | 30 | 29-SEP-11 |
| Potassium (K) | | 5850 | 5880 | | mg/kg | 0.64 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 67.7 | 66.9 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.54 | 1.43 | | mg/kg | 7.3 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.18 | 0.19 | | mg/kg | 4.7 | 40 | 29-SEP-11 |
| Sodium (Na) | | 436 | 468 | | mg/kg | 7.0 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 38.3 | 38.7 | | mg/kg | 0.94 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.32 | 0.29 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 1320 | 1330 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 5.2 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.32 | 1.24 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 65.6 | 66.1 | | mg/kg | 0.83 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 670 | 660 | | mg/kg | 1.6 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 24.9 | 26.4 | | mg/kg | 5.6 | 30 | 29-SEP-11 |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Aluminum (Al) | | 21900 | 21200 | | mg/kg | 3.3 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 4.10 | 4.16 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.43 | | mg/kg | 0.32 | 30 | 29-SEP-11 |
| Barium (Ba) | | 111 | 110 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.59 | 0.54 | | mg/kg | 9.6 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.140 | 0.144 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Boron (B) | | 18.9 | 17.5 | | mg/kg | 7.9 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.714 | 0.714 | | mg/kg | 0.020 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 13400 | 13200 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 1.97 | 1.90 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 55.1 | 53.0 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.3 | 18.5 | | mg/kg | 4.0 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Copper (Cu) | | 41.0 | 40.9 | | mg/kg | 0.23 | 30 | 29-SEP-11 |
| Iron (Fe) | | 28200 | 29200 | | mg/kg | 3.4 | 30 | 29-SEP-11 |
| Lead (Pb) | | 9.92 | 10.5 | | mg/kg | 6.1 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 9610 | 9490 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 701 | 656 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.532 | 0.535 | | mg/kg | 0.44 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 33.0 | 32.7 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 620 | 620 | | mg/kg | 0.48 | 30 | 29-SEP-11 |
| Potassium (K) | | 4260 | 4280 | | mg/kg | 0.47 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 51.8 | 48.3 | | mg/kg | 7.1 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.88 | 1.90 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.15 | 0.16 | | mg/kg | 7.2 | 40 | 29-SEP-11 |
| Sodium (Na) | | 351 | 354 | | mg/kg | 0.81 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 45.8 | 42.9 | | mg/kg | 6.7 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.23 | 0.24 | | mg/kg | 4.7 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 955 | 979 | | mg/kg | 2.6 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.112 | 0.125 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.31 | 1.33 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 48.8 | 48.5 | | mg/kg | 0.73 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 405 | 413 | | mg/kg | 2.0 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 20.1 | 20.1 | | mg/kg | 0.13 | 30 | 29-SEP-11 |
| WG1359420-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 29-SEP-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 29-SEP-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Batch | R2262196 | | | | | | | |
| WG1359926-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Antimony (Sb) | | | 116 | | % | | 70-130 | 30-SEP-11 |
| Arsenic (As) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Barium (Ba) | | | 84 | | % | | 70-130 | 30-SEP-11 |
| Beryllium (Be) | | | 85 | | % | | 70-130 | 30-SEP-11 |
| Boron (B) | | | 94 | | % | | 70-130 | 30-SEP-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-2 | CRM | NRC PACS-2 | | | | | | |
| Cadmium (Cd) | | | 103 | | % | | 70-130 | 30-SEP-11 |
| Calcium (Ca) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Chromium (Cr) | | | 95 | | % | | 70-130 | 30-SEP-11 |
| Cobalt (Co) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Copper (Cu) | | | 104 | | % | | 70-130 | 30-SEP-11 |
| Iron (Fe) | | | 96 | | % | | 70-130 | 30-SEP-11 |
| Lead (Pb) | | | 96 | | % | | 70-130 | 30-SEP-11 |
| Magnesium (Mg) | | | 90 | | % | | 70-130 | 30-SEP-11 |
| Manganese (Mn) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Molybdenum (Mo) | | | 104 | | % | | 70-130 | 30-SEP-11 |
| Nickel (Ni) | | | 90 | | % | | 70-130 | 30-SEP-11 |
| Phosphorus (P) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Potassium (K) | | | 86 | | % | | 70-130 | 30-SEP-11 |
| Selenium (Se) | | | 98 | | % | | 70-130 | 30-SEP-11 |
| Silver (Ag) | | | 114 | | % | | 70-130 | 30-SEP-11 |
| Sodium (Na) | | | 86 | | % | | 70-130 | 30-SEP-11 |
| Strontium (Sr) | | | 103 | | % | | 70-130 | 30-SEP-11 |
| Thallium (Tl) | | | 91 | | % | | 70-130 | 30-SEP-11 |
| Tin (Sn) | | | 105 | | % | | 70-130 | 30-SEP-11 |
| Titanium (Ti) | | | 103 | | % | | 70-130 | 30-SEP-11 |
| Uranium (U) | | | 85 | | % | | 70-130 | 30-SEP-11 |
| Vanadium (V) | | | 100 | | % | | 70-130 | 30-SEP-11 |
| Zinc (Zn) | | | 93 | | % | | 70-130 | 30-SEP-11 |
| WG1359926-3 | CRM | NRC MESS-3 | | | | | | |
| Antimony (Sb) | | | 92 | | % | | 70-130 | 30-SEP-11 |
| Arsenic (As) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Barium (Ba) | | | 96 | | % | | 70-130 | 30-SEP-11 |
| Beryllium (Be) | | | 75 | | % | | 70-130 | 30-SEP-11 |
| Cadmium (Cd) | | | 88 | | % | | 70-130 | 30-SEP-11 |
| Calcium (Ca) | | | 106 | | % | | 70-130 | 30-SEP-11 |
| Chromium (Cr) | | | 81 | | % | | 70-130 | 30-SEP-11 |
| Cobalt (Co) | | | 98 | | % | | 70-130 | 30-SEP-11 |
| Copper (Cu) | | | 100 | | % | | 70-130 | 30-SEP-11 |
| Iron (Fe) | | | 96 | | % | | 70-130 | 30-SEP-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-3 | CRM | NRC MESS-3 | | | | | | |
| Lead (Pb) | | | 89 | | % | | 70-130 | 30-SEP-11 |
| Magnesium (Mg) | | | 88 | | % | | 70-130 | 30-SEP-11 |
| Manganese (Mn) | | | 104 | | % | | 70-130 | 30-SEP-11 |
| Molybdenum (Mo) | | | 100 | | % | | 70-130 | 30-SEP-11 |
| Nickel (Ni) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Phosphorus (P) | | | 88 | | % | | 70-130 | 30-SEP-11 |
| Potassium (K) | | | 75 | | % | | 70-130 | 30-SEP-11 |
| Selenium (Se) | | | 118 | | % | | 70-130 | 30-SEP-11 |
| Silver (Ag) | | | 108 | | % | | 70-130 | 30-SEP-11 |
| Sodium (Na) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Strontium (Sr) | | | 97 | | % | | 70-130 | 30-SEP-11 |
| Tin (Sn) | | | 109 | | % | | 70-130 | 30-SEP-11 |
| Uranium (U) | | | 86 | | % | | 70-130 | 30-SEP-11 |
| Vanadium (V) | | | 74 | | % | | 70-130 | 30-SEP-11 |
| Zinc (Zn) | | | 98 | | % | | 70-130 | 30-SEP-11 |
| WG1359926-5 | DUP | WG1359926-4 | | | | | | |
| Aluminum (Al) | | 4610 | 4150 | | mg/kg | 10 | 40 | 30-SEP-11 |
| Antimony (Sb) | | 0.36 | 0.35 | | mg/kg | 0.93 | 30 | 30-SEP-11 |
| Arsenic (As) | | 15.4 | 13.5 | | mg/kg | 13 | 30 | 30-SEP-11 |
| Barium (Ba) | | 55.8 | 52.9 | | mg/kg | 5.4 | 40 | 30-SEP-11 |
| Beryllium (Be) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Bismuth (Bi) | | 0.120 | 0.112 | | mg/kg | 6.9 | 30 | 30-SEP-11 |
| Boron (B) | | 4.5 | 3.7 | | mg/kg | 19 | 30 | 30-SEP-11 |
| Cadmium (Cd) | | 7.99 | 7.73 | | mg/kg | 3.4 | 30 | 30-SEP-11 |
| Calcium (Ca) | | 2930 | 2740 | | mg/kg | 6.8 | 30 | 30-SEP-11 |
| Cesium (Cs) | | 0.337 | 0.292 | | mg/kg | 14 | 30 | 30-SEP-11 |
| Chromium (Cr) | | 8.8 | 7.9 | | mg/kg | 11 | 30 | 30-SEP-11 |
| Cobalt (Co) | | 134 | 124 | | mg/kg | 8.3 | 30 | 30-SEP-11 |
| Copper (Cu) | | 640 | 636 | | mg/kg | 0.62 | 30 | 30-SEP-11 |
| Iron (Fe) | | 46100 | 45700 | | mg/kg | 0.91 | 30 | 30-SEP-11 |
| Lead (Pb) | | 18.5 | 17.4 | | mg/kg | 6.5 | 40 | 30-SEP-11 |
| Magnesium (Mg) | | 1340 | 1220 | | mg/kg | 9.1 | 30 | 30-SEP-11 |
| Manganese (Mn) | | 114 | 104 | | mg/kg | 9.1 | 30 | 30-SEP-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-5 | DUP | WG1359926-4 | | | | | | |
| Molybdenum (Mo) | | 0.804 | 0.830 | | mg/kg | 3.3 | 40 | 30-SEP-11 |
| Nickel (Ni) | | 36.4 | 33.5 | | mg/kg | 8.3 | 30 | 30-SEP-11 |
| Phosphorus (P) | | 510 | 460 | | mg/kg | 10 | 30 | 30-SEP-11 |
| Potassium (K) | | 483 | 406 | | mg/kg | 17 | 40 | 30-SEP-11 |
| Rubidium (Rb) | | 4.09 | 3.66 | | mg/kg | 11 | 30 | 30-SEP-11 |
| Selenium (Se) | | 3.09 | 2.64 | | mg/kg | 16 | 30 | 30-SEP-11 |
| Silver (Ag) | | 0.22 | 0.20 | | mg/kg | 12 | 40 | 30-SEP-11 |
| Sodium (Na) | | 210 | 209 | | mg/kg | 0.46 | 40 | 30-SEP-11 |
| Strontium (Sr) | | 10.1 | 10.1 | | mg/kg | 0.39 | 40 | 30-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Thallium (Tl) | | 0.11 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 30-SEP-11 |
| Titanium (Ti) | | 167 | 138 | | mg/kg | 19 | 40 | 30-SEP-11 |
| Tungsten (W) | | 0.117 | 0.120 | | mg/kg | 2.4 | 30 | 30-SEP-11 |
| Uranium (U) | | 0.595 | 0.568 | | mg/kg | 4.7 | 30 | 30-SEP-11 |
| Vanadium (V) | | 15.0 | 13.6 | | mg/kg | 10 | 30 | 30-SEP-11 |
| Zinc (Zn) | | 9060 | 8750 | | mg/kg | 3.6 | 30 | 30-SEP-11 |
| Zirconium (Zr) | | 1.77 | 1.66 | | mg/kg | 6.1 | 30 | 30-SEP-11 |
| WG1359926-7 | DUP | WG1359926-6 | | | | | | |
| Aluminum (Al) | | 4040 | 3980 | | mg/kg | 1.4 | 40 | 30-SEP-11 |
| Antimony (Sb) | | 0.16 | 0.17 | | mg/kg | 8.9 | 30 | 30-SEP-11 |
| Arsenic (As) | | 19.8 | 18.9 | | mg/kg | 4.6 | 30 | 30-SEP-11 |
| Barium (Ba) | | 60.9 | 61.6 | | mg/kg | 1.2 | 40 | 30-SEP-11 |
| Beryllium (Be) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Bismuth (Bi) | | 0.113 | 0.093 | | mg/kg | 19 | 30 | 30-SEP-11 |
| Boron (B) | | 8.3 | 8.4 | | mg/kg | 1.6 | 30 | 30-SEP-11 |
| Cadmium (Cd) | | 0.656 | 0.609 | | mg/kg | 7.4 | 30 | 30-SEP-11 |
| Calcium (Ca) | | 10100 | 10400 | | mg/kg | 3.4 | 30 | 30-SEP-11 |
| Cesium (Cs) | | 0.364 | 0.336 | | mg/kg | 7.9 | 30 | 30-SEP-11 |
| Chromium (Cr) | | 13.2 | 11.7 | | mg/kg | 12 | 30 | 30-SEP-11 |
| Cobalt (Co) | | 6.71 | 6.28 | | mg/kg | 6.6 | 30 | 30-SEP-11 |
| Copper (Cu) | | 16.3 | 16.3 | | mg/kg | 0.16 | 30 | 30-SEP-11 |
| Iron (Fe) | | 19100 | 18200 | | mg/kg | 4.8 | 30 | 30-SEP-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-7 | DUP | WG1359926-6 | | | | | | |
| Lead (Pb) | | 10.3 | 9.93 | | mg/kg | 3.2 | 40 | 30-SEP-11 |
| Magnesium (Mg) | | 1370 | 1360 | | mg/kg | 0.98 | 30 | 30-SEP-11 |
| Manganese (Mn) | | 325 | 321 | | mg/kg | 1.3 | 30 | 30-SEP-11 |
| Molybdenum (Mo) | | 0.953 | 0.936 | | mg/kg | 1.8 | 40 | 30-SEP-11 |
| Nickel (Ni) | | 14.3 | 13.2 | | mg/kg | 8.4 | 30 | 30-SEP-11 |
| Phosphorus (P) | | 710 | 700 | | mg/kg | 1.4 | 30 | 30-SEP-11 |
| Potassium (K) | | 466 | 441 | | mg/kg | 5.7 | 40 | 30-SEP-11 |
| Rubidium (Rb) | | 3.36 | 3.40 | | mg/kg | 1.3 | 30 | 30-SEP-11 |
| Selenium (Se) | | 0.95 | 0.93 | | mg/kg | 2.7 | 30 | 30-SEP-11 |
| Silver (Ag) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 40 | 30-SEP-11 |
| Sodium (Na) | | 85 | 82 | | mg/kg | 2.8 | 40 | 30-SEP-11 |
| Strontium (Sr) | | 17.8 | 16.6 | | mg/kg | 7.0 | 40 | 30-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Thallium (Tl) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 30-SEP-11 |
| Titanium (Ti) | | 78.0 | 83.4 | | mg/kg | 6.7 | 40 | 30-SEP-11 |
| Tungsten (W) | | 0.136 | 0.125 | | mg/kg | 8.3 | 30 | 30-SEP-11 |
| Uranium (U) | | 0.278 | 0.273 | | mg/kg | 1.9 | 30 | 30-SEP-11 |
| Vanadium (V) | | 9.96 | 9.50 | | mg/kg | 4.8 | 30 | 30-SEP-11 |
| Zinc (Zn) | | 117 | 113 | | mg/kg | 3.2 | 30 | 30-SEP-11 |
| Zirconium (Zr) | | 3.16 | 2.95 | | mg/kg | 7.0 | 30 | 30-SEP-11 |
| WG1359926-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 30-SEP-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 30-SEP-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 30-SEP-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 30-SEP-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-1 | MB | | | | | | | |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 30-SEP-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 30-SEP-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 30-SEP-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 30-SEP-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 30-SEP-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 30-SEP-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 30-SEP-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 30-SEP-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 30-SEP-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 30-SEP-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Batch | R2262894 | | | | | | | |
| WG1361496-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Antimony (Sb) | | | 119 | | % | | 70-130 | 03-OCT-11 |
| Arsenic (As) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Barium (Ba) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Beryllium (Be) | | | 80 | | % | | 70-130 | 03-OCT-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Cadmium (Cd) | | | 94 | | % | | 70-130 | 03-OCT-11 |
| Calcium (Ca) | | | 93 | | % | | 70-130 | 03-OCT-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-2 | CRM | NRC PACS-2 | | | | | | |
| Chromium (Cr) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Cobalt (Co) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Copper (Cu) | | | 100 | | % | | 70-130 | 03-OCT-11 |
| Iron (Fe) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Lead (Pb) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| Magnesium (Mg) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Manganese (Mn) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Molybdenum (Mo) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Nickel (Ni) | | | 94 | | % | | 70-130 | 03-OCT-11 |
| Phosphorus (P) | | | 87 | | % | | 70-130 | 03-OCT-11 |
| Potassium (K) | | | 82 | | % | | 70-130 | 03-OCT-11 |
| Silver (Ag) | | | 97 | | % | | 70-130 | 03-OCT-11 |
| Sodium (Na) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Strontium (Sr) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| Thallium (Tl) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Tin (Sn) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Titanium (Ti) | | | 102 | | % | | 70-130 | 03-OCT-11 |
| Uranium (U) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Vanadium (V) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Zinc (Zn) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| WG1361496-3 | CRM | NRC MESS-3 | | | | | | |
| Antimony (Sb) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Arsenic (As) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Barium (Ba) | | | 103 | | % | | 70-130 | 03-OCT-11 |
| Beryllium (Be) | | | 72 | | % | | 70-130 | 03-OCT-11 |
| Cadmium (Cd) | | | 83 | | % | | 70-130 | 03-OCT-11 |
| Calcium (Ca) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Chromium (Cr) | | | 78 | | % | | 70-130 | 03-OCT-11 |
| Cobalt (Co) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Copper (Cu) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Iron (Fe) | | | 103 | | % | | 70-130 | 03-OCT-11 |
| Lead (Pb) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Magnesium (Mg) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Manganese (Mn) | | | 111 | | % | | 70-130 | 03-OCT-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-3 | CRM | NRC MESS-3 | | | | | | |
| Molybdenum (Mo) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Nickel (Ni) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Phosphorus (P) | | | 81 | | % | | 70-130 | 03-OCT-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 03-OCT-11 |
| Selenium (Se) | | | 118 | | % | | 70-130 | 03-OCT-11 |
| Silver (Ag) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Sodium (Na) | | | 101 | | % | | 70-130 | 03-OCT-11 |
| Strontium (Sr) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Tin (Sn) | | | 73 | | % | | 70-130 | 03-OCT-11 |
| Uranium (U) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Vanadium (V) | | | 74 | | % | | 70-130 | 03-OCT-11 |
| Zinc (Zn) | | | 95 | | % | | 70-130 | 03-OCT-11 |
| WG1361496-5 | DUP | WG1361496-4 | | | | | | |
| Aluminum (Al) | | 19900 | 17700 | | mg/kg | 12 | 40 | 03-OCT-11 |
| Antimony (Sb) | | 0.15 | 0.16 | | mg/kg | 4.1 | 30 | 03-OCT-11 |
| Arsenic (As) | | 14.8 | 14.0 | | mg/kg | 5.6 | 30 | 03-OCT-11 |
| Barium (Ba) | | 175 | 166 | | mg/kg | 5.3 | 40 | 03-OCT-11 |
| Beryllium (Be) | | 0.47 | 0.55 | | mg/kg | 16 | 30 | 03-OCT-11 |
| Bismuth (Bi) | | 0.097 | 0.102 | | mg/kg | 4.5 | 30 | 03-OCT-11 |
| Boron (B) | | 22.8 | 18.7 | | mg/kg | 19 | 30 | 03-OCT-11 |
| Cadmium (Cd) | | 1.30 | 1.22 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Calcium (Ca) | | 11700 | 10400 | | mg/kg | 12 | 30 | 03-OCT-11 |
| Cesium (Cs) | | 1.46 | 1.30 | | mg/kg | 12 | 30 | 03-OCT-11 |
| Chromium (Cr) | | 82.9 | 77.4 | | mg/kg | 6.9 | 30 | 03-OCT-11 |
| Cobalt (Co) | | 158 | 150 | | mg/kg | 5.5 | 30 | 03-OCT-11 |
| Copper (Cu) | | 271 | 263 | | mg/kg | 3.1 | 30 | 03-OCT-11 |
| Iron (Fe) | | 29800 | 28100 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Lead (Pb) | | 6.94 | 6.65 | | mg/kg | 4.3 | 40 | 03-OCT-11 |
| Magnesium (Mg) | | 7780 | 7350 | | mg/kg | 5.6 | 30 | 03-OCT-11 |
| Manganese (Mn) | | 3540 | 3320 | | mg/kg | 6.2 | 30 | 03-OCT-11 |
| Molybdenum (Mo) | | 0.722 | 0.786 | | mg/kg | 8.6 | 40 | 03-OCT-11 |
| Nickel (Ni) | | 59.0 | 55.6 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Phosphorus (P) | | 570 | 510 | | mg/kg | 9.7 | 30 | 03-OCT-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-5 | DUP | WG1361496-4 | | | | | | |
| Potassium (K) | | 3490 | 2930 | | mg/kg | 17 | 40 | 03-OCT-11 |
| Rubidium (Rb) | | 34.6 | 31.3 | | mg/kg | 9.9 | 30 | 03-OCT-11 |
| Selenium (Se) | | 0.95 | 0.85 | | mg/kg | 11 | 30 | 03-OCT-11 |
| Silver (Ag) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Sodium (Na) | | 248 | 211 | | mg/kg | 16 | 40 | 03-OCT-11 |
| Strontium (Sr) | | 40.1 | 36.7 | | mg/kg | 8.9 | 40 | 03-OCT-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 03-OCT-11 |
| Thallium (Tl) | | 0.18 | 0.16 | | mg/kg | 7.3 | 30 | 03-OCT-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Titanium (Ti) | | 790 | 681 | | mg/kg | 15 | 40 | 03-OCT-11 |
| Tungsten (W) | | 0.149 | 0.153 | | mg/kg | 2.2 | 30 | 03-OCT-11 |
| Uranium (U) | | 1.51 | 1.39 | | mg/kg | 8.1 | 30 | 03-OCT-11 |
| Vanadium (V) | | 41.9 | 36.7 | | mg/kg | 13 | 30 | 03-OCT-11 |
| Zinc (Zn) | | 1080 | 1040 | | mg/kg | 3.7 | 30 | 03-OCT-11 |
| Zirconium (Zr) | | 6.34 | 6.73 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| WG1361496-7 | DUP | WG1361496-6 | | | | | | |
| Aluminum (Al) | | 22900 | 23100 | | mg/kg | 1.2 | 40 | 03-OCT-11 |
| Antimony (Sb) | | 2.52 | 2.67 | | mg/kg | 5.8 | 30 | 03-OCT-11 |
| Arsenic (As) | | 14.4 | 14.8 | | mg/kg | 2.4 | 30 | 03-OCT-11 |
| Barium (Ba) | | 121 | 124 | | mg/kg | 2.4 | 40 | 03-OCT-11 |
| Beryllium (Be) | | 0.79 | 0.73 | | mg/kg | 8.5 | 30 | 03-OCT-11 |
| Bismuth (Bi) | | 0.215 | 0.214 | | mg/kg | 0.36 | 30 | 03-OCT-11 |
| Boron (B) | | 16.8 | 14.2 | | mg/kg | 17 | 30 | 03-OCT-11 |
| Cadmium (Cd) | | 0.918 | 0.908 | | mg/kg | 1.1 | 30 | 03-OCT-11 |
| Calcium (Ca) | | 10500 | 10100 | | mg/kg | 4.0 | 30 | 03-OCT-11 |
| Cesium (Cs) | | 2.40 | 2.36 | | mg/kg | 1.8 | 30 | 03-OCT-11 |
| Chromium (Cr) | | 56.9 | 53.5 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Cobalt (Co) | | 17.3 | 16.6 | | mg/kg | 4.2 | 30 | 03-OCT-11 |
| Copper (Cu) | | 44.9 | 44.7 | | mg/kg | 0.25 | 30 | 03-OCT-11 |
| Iron (Fe) | | 32300 | 33600 | | mg/kg | 3.7 | 30 | 03-OCT-11 |
| Lead (Pb) | | 14.3 | 14.5 | | mg/kg | 1.9 | 40 | 03-OCT-11 |
| Magnesium (Mg) | | 9900 | 9240 | | mg/kg | 6.8 | 30 | 03-OCT-11 |
| Manganese (Mn) | | 522 | 499 | | mg/kg | 4.4 | 30 | 03-OCT-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-7 | DUP | WG1361496-6 | | | | | | |
| Molybdenum (Mo) | | 0.468 | 0.477 | | mg/kg | 2.0 | 40 | 03-OCT-11 |
| Nickel (Ni) | | 37.2 | 35.4 | | mg/kg | 4.8 | 30 | 03-OCT-11 |
| Phosphorus (P) | | 700 | 630 | | mg/kg | 11 | 30 | 03-OCT-11 |
| Potassium (K) | | 4800 | 4260 | | mg/kg | 12 | 40 | 03-OCT-11 |
| Rubidium (Rb) | | 50.2 | 48.9 | | mg/kg | 2.5 | 30 | 03-OCT-11 |
| Selenium (Se) | | 1.90 | 1.79 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Silver (Ag) | | 0.17 | 0.19 | | mg/kg | 7.1 | 40 | 03-OCT-11 |
| Sodium (Na) | | 376 | 313 | | mg/kg | 19 | 40 | 03-OCT-11 |
| Strontium (Sr) | | 34.8 | 33.9 | | mg/kg | 2.4 | 40 | 03-OCT-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 03-OCT-11 |
| Thallium (Tl) | | 0.31 | 0.31 | | mg/kg | 0.73 | 30 | 03-OCT-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Titanium (Ti) | | 1070 | 1070 | | mg/kg | 0.28 | 40 | 03-OCT-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 4.9 | 30 | 03-OCT-11 |
| Uranium (U) | | 1.24 | 1.25 | | mg/kg | 0.57 | 30 | 03-OCT-11 |
| Vanadium (V) | | 47.3 | 44.5 | | mg/kg | 6.1 | 30 | 03-OCT-11 |
| Zinc (Zn) | | 439 | 437 | | mg/kg | 0.34 | 30 | 03-OCT-11 |
| Zirconium (Zr) | | 19.0 | 19.6 | | mg/kg | 3.2 | 30 | 03-OCT-11 |
| WG1361496-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 03-OCT-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 03-OCT-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 03-OCT-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|--------|-------------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-1 | MB | | | | | | | |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 03-OCT-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 03-OCT-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 03-OCT-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 03-OCT-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 03-OCT-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| MOIST-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263672 | | | | | | | |
| WG1360345-1 | DUP | L1062732-9 | | | | | | |
| % Moisture | | 97.1 | 97.1 | | % | 0.0064 | 25 | 05-OCT-11 |
| N-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263333 | | | | | | | |
| WG1360057-1 | DUP | L1062730-5 | | | | | | |
| Total Nitrogen by LECO | | 3.19 | 3.18 | J | % | 0.012 | 0.05 | 01-OCT-11 |
| WG1360057-2 | IRM | 08-109_SOIL | | | | | | |
| Total Nitrogen by LECO | | | 0.110 | | % | | 0.085-0.135 | 01-OCT-11 |
| WG1360057-3 | MB | | | | | | | |
| Total Nitrogen by LECO | | | <0.020 | | % | | 0.02 | 01-OCT-11 |



Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------------|-----------|
| N-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264112 | | | | | | | |
| WG1360059-1 | DUP | L1062761-1 | | | | | | |
| Total Nitrogen by LECO | | 2.92 | 2.91 | J | % | 0.013 | 0.05 | 03-OCT-11 |
| WG1360059-2 | IRM | 08-109_SOIL | | | | | | |
| Total Nitrogen by LECO | | | 0.118 | | % | | 0.085-0.135 | 03-OCT-11 |
| WG1360059-3 | MB | | | | | | | |
| Total Nitrogen by LECO | | | <0.020 | | % | | 0.02 | 03-OCT-11 |
| P-SALM-ICP-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263935 | | | | | | | |
| WG1359961-2 | CRM | SS-1_SOIL | | | | | | |
| Phosphorus, Total | | | 1080 | | mg/kg | | 750-1530 | 04-OCT-11 |
| WG1359961-4 | DUP | L1062760-6 | | | | | | |
| Phosphorus, Total | | 426 | 441 | | mg/kg | 3.5 | 30 | 04-OCT-11 |
| WG1359961-5 | DUP | L1062732-6 | | | | | | |
| Phosphorus, Total | | 668 | 652 | | mg/kg | 2.5 | 30 | 04-OCT-11 |
| WG1359961-1 | MB | | | | | | | |
| Phosphorus, Total | | | <50 | | mg/kg | | 50 | 04-OCT-11 |
| PSA-3-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264462 | | | | | | | |
| WG1360043-1 | DUP | L1062763-4 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | 25.7 | 25.4 | J | % | 0.22 | 10 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | 31.9 | 30.1 | J | % | 1.81 | 10 | 05-OCT-11 |
| % Clay (<2um) | | 42.4 | 44.5 | J | % | 2.03 | 10 | 05-OCT-11 |
| WG1360043-2 | IRM | FARM2009 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | | 49.9 | | % | | 45-55 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | | 33.4 | | % | | 29-39 | 05-OCT-11 |
| % Clay (<2um) | | | 16.7 | | % | | 10-20 | 05-OCT-11 |

Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

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Contact: Clifton Samoiloff

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Sample Parameter Qualifier Definitions:

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

Quality Control Report

Workorder: L1062732

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Moisture Content | | | | | | | |
| | 1 | 14-SEP-11 10:13 | 05-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 2 | 14-SEP-11 10:25 | 05-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 3 | 14-SEP-11 10:33 | 05-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 4 | 14-SEP-11 11:05 | 05-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 5 | 14-SEP-11 11:14 | 05-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 6 | 14-SEP-11 11:23 | 05-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 7 | 14-SEP-11 12:51 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 8 | 14-SEP-11 12:58 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 9 | 14-SEP-11 13:03 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| | 1 | 14-SEP-11 10:13 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 2 | 14-SEP-11 10:25 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 3 | 14-SEP-11 10:33 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 4 | 14-SEP-11 11:05 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 5 | 14-SEP-11 11:14 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 6 | 14-SEP-11 11:23 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 7 | 14-SEP-11 12:51 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 8 | 14-SEP-11 12:58 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 9 | 14-SEP-11 13:03 | 04-OCT-11 00:00 | 14 | 19 | 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 L1062732 were received on 23-SEP-11 15:00.

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.



study / Analytical Request Form
 a Toll Free: 1 800 668 9878
 www.alsglobal.com

COC # 1002732 Page 1 of 1



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

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

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

| Sample # | Sample Description | Sample Type | Date (dd-mm-yy) | Time (hh:mm) | Sampler: | Number of Containers |
|----------|--------------------|-------------|-----------------|--------------|----------|----------------------|
| | GHL-01A | Sediment | 14-Sep-11 | 10:13 | | 2 |
| | GHL-01B | Sediment | 14-Sep-11 | 10:25 | | 1 |
| | GHL-01C | Sediment | 14-Sep-11 | 10:33 | | 1 |
| | GHL-02A | Sediment | 14-Sep-11 | 11:05 | | 2 |
| | GHL-02B | Sediment | 14-Sep-11 | 11:14 | | 1 |
| | GHL-02C | Sediment | 14-Sep-11 | 11:23 | | 1 |
| | GHL-03A | Sediment | 14-Sep-11 | 12:51 | | 2 |
| | GHL-03B | Sediment | 14-Sep-11 | 12:58 | | 1 |
| | GHL-03C | Sediment | 14-Sep-11 | 13:03 | | 1 |

Client / Project Information
 Job #: 60212443
 PO / AFE: _____
 LSD: _____
 Quote #: Q24534
 ALS Contact: _____

| Sample # | Sample Description (This description will appear on the report) | Sample Type | Date (dd-mm-yy) | Time (hh:mm) | Sampler: | Number of Containers |
|----------|---|-------------|-----------------|--------------|----------|----------------------|
| | GHL-01A | Sediment | 14-Sep-11 | 10:13 | | 2 |
| | GHL-01B | Sediment | 14-Sep-11 | 10:25 | | 1 |
| | GHL-01C | Sediment | 14-Sep-11 | 10:33 | | 1 |
| | GHL-02A | Sediment | 14-Sep-11 | 11:05 | | 2 |
| | GHL-02B | Sediment | 14-Sep-11 | 11:14 | | 1 |
| | GHL-02C | Sediment | 14-Sep-11 | 11:23 | | 1 |
| | GHL-03A | Sediment | 14-Sep-11 | 12:51 | | 2 |
| | GHL-03B | Sediment | 14-Sep-11 | 12:58 | | 1 |
| | GHL-03C | Sediment | 14-Sep-11 | 13:03 | | 1 |

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

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RECEIPT (lab use only)
 Released by: [Signature] Date (dd-mm-yy): 22-Sep-11 Time (hh-mm): 14:52
 Received by: [Signature] Date: 23-Sep-11 Time: 15:00
 Temperature: 20.5 °C
 Verified by: _____ Date: _____ Time: _____
 Observations: Yes / No ?
 If Yes add SIF



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

Date Received: 23-SEP-11
Report Date: 02-MAR-12 14:09 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062734
Project P.O. #: NOT SUBMITTED
Job Reference: 60212435
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------------|------------|------|-------|-----------|-----------|----------|
| L1062734-1 STL-01A Sampled By: CLIENT on 16-SEP-11 @ 14:50 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-MAR-12 | 02-MAR-12 | R2332508 |
| L1062734-2 STL-02A Sampled By: CLIENT on 16-SEP-11 @ 13:30 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-MAR-12 | 02-MAR-12 | R2332508 |
| L1062734-3 STL-03A Sampled By: CLIENT on 16-SEP-11 @ 12:10 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-MAR-12 | 02-MAR-12 | R2332508 |
| L1062734-4 STC-02A Sampled By: CLIENT on 15-SEP-11 @ 16:12 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-MAR-12 | 02-MAR-12 | R2332508 |
| L1062734-5 STC-03B Sampled By: CLIENT on 15-SEP-11 @ 15:10 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-MAR-12 | 02-MAR-12 | R2332508 |
| | | | | | | | |

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

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|-----------------------|------------------------|
| BENTHOS-WP | Soil | Benthic Invertebrates | STANDARD METHODS 10500 |

The benthic macroinvertebrates method is a procedure for identifying those organisms inhabiting the substrates of freshwater lakes and rivers. The organisms contained in large samples must be sorted to varying degrees in the laboratory before identification is performed. Samples are sorted and identified using compound and stereoscopic microscopes. Benthic organisms are identified to species where possible, enumerated and reported.

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1062734

Report Date: 02-MAR-12

Page 1 of 2

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|

Quality Control Report

Workorder: L1062734

Report Date: 02-MAR-12

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

Contact: Clifton Samoiloff

Page 2 of 2

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

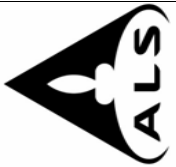
Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

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

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

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



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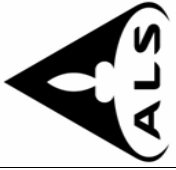
Benthic Sample Results

Lab Number: L1062734-1 **Work Order:** L1062734

Date Sampled September 16, 2011
Source: 60212435

Submitter AECOM **Sample Type** SEDIMENT **Station No**
WQ Site #: STL-01A **Sample ID**

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|---------|---------|-----------------|--------------------|---------|-------|-------|------|-------|
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 47 | 0 | 0 | 47 |



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Benthic Sample Results

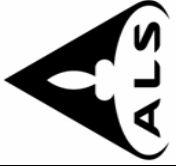
Lab Number: L1062734-2 **Work Order:** L1062734

Date Sampled: September 16, 2011
Source: 60212435

Submitter: AECOM
WQ Site #: STL-02A

Sample Type: SEDIMENT
Station No:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|---------|---------|-----------------|--------------------|---------|-------|-------|------|-------|
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 163 | 0 | 0 | 163 |



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Benthic Sample Results

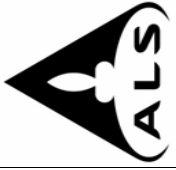
Lab Number: L1062734-3 **Work Order:** L1062734

Date Sampled: September 16, 2011
Source: 60212435

Submitter: AECOM
WQ Site #: STL-03A

Sample Type: SEDIMENT
Station No:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|---------|---------|-----------------|---------------------|---------|-------|-------|------|-------|
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 18 | 0 | 0 | 18 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Pentaneurini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 5 | 0 | 0 | 5 |



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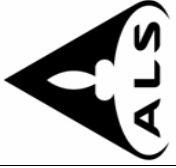
Benthic Sample Results

Lab Number: L1062734-4 **Work Order:** L1062734

Date Sampled: September 15, 2011 **Submitter:** AECOM
Source: 60212435 **WQ Site #:** STC-02A

Sample Type: SEDIMENT **Station No:**
Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|------------|------------------|-----------------|---------------------|------------------------|-------|-------|------|-------|
| GASTROPODA | | | | | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | <i>unidentified</i> | <i>damaged</i> | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Pentaneurini</i> | | 2 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Tanytarsini</i> | | 3 | 0 | 0 | 3 |
| INSECTA | EPHEMEROPTERA | | <i>unidentified</i> | <i>damaged</i> | 1 | 0 | 0 | 1 |
| INSECTA | ODONATA - ANISOP | GOMPHIDAE | <i>unidentified</i> | <i>too young to ID</i> | 1 | 0 | 0 | 1 |



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Benthic Sample Results

Lab Number: L1062734-5 **Work Order:** L1062734

Date Sampled: September 15, 2011 **Submitter:** AECOM
Source: 60212435 **WQ Site #:** STC-03B

Sample Type: SEDIMENT
Station No:
Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|-------------|----------------|-----------------|-------------------|-------------|-------|-------|------|-------|
| ANNELIDA | HIRUDINEA | GLOSSIPHONIIDAE | Glossiphonia | sp. | 0 | 0 | 0 | 1 |
| ANNELIDA | HIRUDINEA | GLOSSIPHONIIDAE | Helobdella | stagnalis | 0 | 0 | 0 | 1 |
| ANNELIDA | OLIGOCHAETA | NAIDAE | Nais | sp. | 0 | 0 | 0 | 1 |
| ARACHNOIDEA | TROMBIDIFORMES | | unidentified | nymph | 2 | 0 | 0 | 2 |
| CRUSTACEA | AMPHIPODA | HYALELLIDAE | Hyalella | azteca | 0 | 0 | 0 | 10 |
| CRUSTACEA | CLADOCERA | | | | 0 | 0 | 0 | 7 |
| CRUSTACEA | COPEPODA | CYCLOPOIDA | | | 0 | 0 | 0 | 94 |
| CRUSTACEA | COPEPODA | HARPACTICOIDA | | | 0 | 0 | 0 | 10 |
| CRUSTACEA | OSTRACODA | | | | 0 | 0 | 0 | 46 |
| GASTROPODA | BASOMMATOPHOR | PLANORBIIDAE | Armiger | crista | 0 | 0 | 0 | 1 |
| GASTROPODA | BASOMMATOPHOR | PLANORBIIDAE | Gyraulus | sp. | 0 | 0 | 0 | 3 |
| GASTROPODA | PROSOBRANCHIA | VALVATIDAE | Valvata | sincera | 0 | 0 | 0 | 3 |
| GASTROPODA | PROSOBRANCHIA | VALVATIDAE | Valvata | tricarinata | 0 | 0 | 0 | 3 |
| INSECTA | COLEOPTERA | HALIPLIDAE | Haliphus | sp. | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 22 | 0 | 0 | 22 |
| INSECTA | DIPTERA | CHIRONOMIDAE | Chironomini | | 14 | 0 | 0 | 14 |
| INSECTA | DIPTERA | CHIRONOMIDAE | Orthocladinae | | 5 | 0 | 0 | 5 |
| INSECTA | DIPTERA | CHIRONOMIDAE | Pentaneurini | | 51 | 0 | 0 | 51 |
| INSECTA | DIPTERA | CHIRONOMIDAE | Procladini | | 3 | 0 | 0 | 3 |
| INSECTA | DIPTERA | CHIRONOMIDAE | Tanytarsini | | 33 | 0 | 0 | 33 |
| INSECTA | DIPTERA | CHIRONOMIDAE | unidentified pupa | | 0 | 0 | 1 | 1 |



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Benthic Sample Results

Lab Number: L1062734-5 **Work Order:** L1062734

Date Sampled: September 15, 2011
Source: 60212435

Submitter: AECOM **Sample Type:** SEDIMENT **Station No:**
WQ Site #: STC-03B **Sample ID:**

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|----------|----------------|-----------------|--------------------|-----------------|-------|-------|------|-------|
| INSECTA | EPHEMEROPTERA | CAENIDAE | Caenis | sp. | 56 | 0 | 0 | 56 |
| INSECTA | ODONATA-ANISOP | CORDULIIDAE | Epitheca | sp. | 1 | 0 | 0 | 1 |
| INSECTA | PLECOPTERA | | unidentified nymph | too young to ID | 2 | 0 | 0 | 2 |
| NEMATODA | | | unidentified | | 0 | 0 | 0 | 2 |



Today / Analytical Request Form
 Toll Free: 1 800 668 9878
 www.alsglobal.com

COC # 20734

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Page 1 of 1



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

Client / Project Information
 Job #: 60212435
 PO / AFE:
 LSD:
 Quote #: Q24534

ALS Contact:
 Name: Jan Wink
 Title: (lab use only)
 Phone: Fax:

| Sample # | Sample Identification (This description will appear on the report) | Sampler: | | Number of Containers |
|----------|---|------------------|--------------|----------------------|
| | | Date (dd-mmm-yy) | Time (hh:mm) | |
| | <input checked="" type="checkbox"/> STL-01A | 16-Sep-11 | 14:50 | 2 |
| | <input checked="" type="checkbox"/> STL-02A | 16-Sep-11 | 13:30 | 2 |
| | <input checked="" type="checkbox"/> STL-03A | 16-Sep-11 | 12:10 | 2 |
| | <input checked="" type="checkbox"/> STC-02A | 15-Sep-11 | 16:12 | 3 |
| | <input checked="" type="checkbox"/> STC-03A B | 15-Sep-11 | 15:10 | 2 |

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

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

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

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (lab use only)
 Released by: MLL Date (dd-mmm-yy): 23-Sep-11 Time (hh-mm): 10:23
 Received by: [Signature] Date: 23-Sep-11 Time: 15:00 Temperature: 20.5 °C
SHIPMENT VERIFICATION (lab use only)
 Verified by: _____ Date: _____ Time: _____
 Observations: Yes / No? _____ If Yes add SIF _____



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

Date Received: 23-SEP-11
Report Date: 02-FEB-12 12:57 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062735
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------------|------------|------|-------|-----------|-----------|----------|
| L1062735-1 NTL-01A Sampled By: CLIENT on 14-SEP-11 @ 12:10 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-FEB-12 | 02-FEB-12 | R2320017 |
| L1062735-2 UL1-01A Sampled By: CLIENT on 14-SEP-11 @ 14:25 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-FEB-12 | 02-FEB-12 | R2320017 |
| L1062735-3 GSL-01A Sampled By: CLIENT on 14-SEP-11 @ 09:36 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-FEB-12 | 02-FEB-12 | R2320017 |
| L1062735-4 THL-01A Sampled By: CLIENT on 15-SEP-11 @ 09:30 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-FEB-12 | 02-FEB-12 | R2320017 |
| L1062735-5 THL-02A Sampled By: CLIENT on 15-SEP-11 @ 10:30 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-FEB-12 | 02-FEB-12 | R2320017 |
| L1062735-6 THL-03A Sampled By: CLIENT on 15-SEP-11 @ 11:50 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-FEB-12 | 02-FEB-12 | R2320017 |
| | | | | | | | |

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

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|-----------------------|------------------------|
| BENTHOS-WP | Soil | Benthic Invertebrates | STANDARD METHODS 10500 |

The benthic macroinvertebrates method is a procedure for identifying those organisms inhabiting the substrates of freshwater lakes and rivers. The organisms contained in large samples must be sorted to varying degrees in the laboratory before identification is performed. Samples are sorted and identified using compound and stereoscopic microscopes. Benthic organisms are identified to species where possible, enumerated and reported.

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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



Quality Control Report

Workorder: L1062735

Report Date: 02-FEB-12

Page 1 of 2

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|

Quality Control Report

Workorder: L1062735

Report Date: 02-FEB-12

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

Page 2 of 2

Contact: Clifton Samoiloff

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

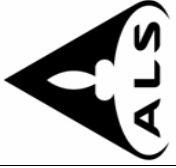
Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

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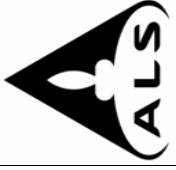
Benthic Sample Results

Lab Number: L1062735-1 **Work Order:** L1062735

Date Sampled: September 14, 2011 **Submitter:** AECOM
Source: 60213483 **WQ Site #:** NTL-01A

Sample Type: SEDIMENT **Station No:**
Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|------------|--------------|-----------------|----------------------|---------------|-------|-------|------|-------|
| CRUSTACEA | AMPHIPODA | HYALELLIDAE | <i>Hyalella</i> | <i>azteca</i> | 0 | 0 | 0 | 33 |
| CRUSTACEA | CLADOCERA | | | | 0 | 0 | 0 | 1 |
| CRUSTACEA | COPEPODA | CALANOIDA | | | 0 | 0 | 0 | 21 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 8 | 0 | 0 | 8 |
| INSECTA | DIPTERA | CHAOBORIDAE | <i>Chaoborus</i> | <i>sp.</i> | 2 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 3 | 0 | 0 | 3 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Orthocladinae</i> | | 4 | 0 | 0 | 4 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Pentaneurini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 9 | 0 | 0 | 9 |
| INSECTA | EPEMEROPTERA | CAENIDAE | <i>Caenis</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| NEMATODA | | | <i>unidentified</i> | | 0 | 0 | 0 | 1 |
| PELECYPODA | VENEROIDA | PISIIDAE | <i>damaged</i> | | 0 | 0 | 0 | 3 |
| PELECYPODA | VENEROIDA | PISIIDAE | <i>Pisidium</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |



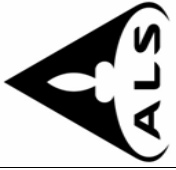
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Benthic Sample Results

Lab Number: **L1062735-2** Work Order: **L1062735**

Date Sampled September 14, 2011 Submitter AECOM SEDIMENT Station No
Source: 60213483 WQ Site #: UL1-01A Sample ID

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|------------|---------------|-----------------|-------------------------|--|-------|-------|------|-------|
| CRUSTACEA | AMPHIPODA | HYALELLIDAE | <i>Hyalella</i> | <i>azteca</i> | 0 | 0 | 0 | 42 |
| GASTROPODA | PROSOBRANCHIA | VALVATIDAE | <i>Valvata</i> | <i>sincera</i> var. <i>ontariensis</i> | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 5 | 0 | 0 | 5 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 88 | 0 | 0 | 88 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 12 | 0 | 0 | 12 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Tanytarsini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | EPHEMEROPTERA | LEPTOPHLEBIIDAE | <i>Paraleptophlebia</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| INSECTA | TRICHOPTERA | LEPTOCERIDAE | <i>Oecetis</i> | <i>sp.</i> | 3 | 0 | 0 | 3 |



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Benthic Sample Results

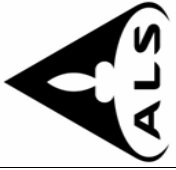
Lab Number: L1062735-3 **Work Order:** L1062735

Date Sampled: September 14, 2011 **Submitter:** AECOM
Source: 60213483 **WQ Site #:** GSL-01A

Sample Type: SEDIMENT **Station No:**

Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|-------------|----------------|-----------------|-------------|---------|-------|-------|------|-------|
| ARACHNOIDEA | TROMBIDIFORMES | ARRENURIDAE | Arrenurus | sp. | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | Chironomini | | 2 | 0 | 0 | 2 |
| INSECTA | EPEMEROPTERA | CAENIDAE | Caenis | sp. | 2 | 0 | 0 | 2 |



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 Manitoba Technology Centre
 12-1329 Niakwa Road E
 Winnipeg, Manitoba R2J 3T4
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Benthic Sample Results

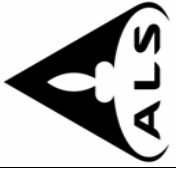
Lab Number: L1062735-4 **Work Order:** L1062735

Date Sampled: September 15, 2011
Source: 60213483

Submitter: AECOM
WQ Site #: THL-01A

Sample Type: SEDIMENT
Station No:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|----------|-----------|-----------------|--------------------|------------|-------|-------|------|-------|
| ANNELIDA | HIRUDINEA | GLOSSIPHONIIDAE | <i>Placobdella</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 4 | 0 | 0 | 4 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 3 | 0 | 0 | 3 |



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Benthic Sample Results

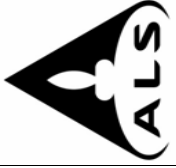
Lab Number: L1062735-5 **Work Order:** L1062735

Date Sampled: September 15, 2011
Source: 60213483

Submitter: AECOM
WQ Site #: THL-02A

Sample Type: SEDIMENT
Station No:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|---------|---------|-----------------|--------------------|---------|-------|-------|------|-------|
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 2 | 0 | 0 | 2 |



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Benthic Sample Results

Lab Number: L1062735-6 **Work Order:** L1062735

Date Sampled: September 15, 2011 **Submitter:** AECOM
Source: 60213483 **WQ Site #:** THL-03A

Sample Type: SEDIMENT **Station No**
Sample ID

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|------------|---------------|-----------------|--------------|---------------------------------|-------|-------|------|-------|
| CRUSTACEA | CLADOCERA | | | | 0 | 0 | 0 | 2 |
| GASTROPODA | PROSOBRANCHIA | VALVATIDAE | Valvata | <i>sincera var. ontariensis</i> | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | Chironomini | | 22 | 0 | 0 | 22 |
| INSECTA | DIPTERA | CHIRONOMIDAE | Pentaneurini | | 7 | 0 | 0 | 7 |
| INSECTA | DIPTERA | CHIRONOMIDAE | Procladini | | 8 | 0 | 0 | 8 |
| INSECTA | DIPTERA | CHIRONOMIDAE | Tanytarsini | | 2 | 0 | 0 | 2 |
| INSECTA | EPHEMEROPTERA | CAENIDAE | Caenis | <i>sp.</i> | 1 | 0 | 0 | 1 |
| NEMATODA | | | unidentified | | 0 | 0 | 0 | 1 |
| PELECYPODA | VENEROIDA | PISIIDAE | unidentified | <i>Too young to ID</i> | 0 | 0 | 0 | 2 |



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

COC #

14

1000735 Page 1 of 1



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

Email 1: cliff.samoloff@aecom.com
 Email 2: shawna.kjarfanson@aecom.com
 Email 3: mark.hadfield@aecom.com

Client / Project Information
 Job #: 60213483
 PO / AFE: _____
 LSD: _____
 Quote #: Q24534

ALS Contact: _____

| Sample # | Lab Work Order # (lab use only) | Sample Identification (This description will appear on the report) | | Sampler: | | Number of Containers |
|----------|------------------------------------|---|--------------|--------------|-------------|----------------------|
| | | Date (dd-mm-yy) | Time (hr:mm) | Time (hr:mm) | Sample Type | |
| ✓ | | NTL-01A | 14-Sep-11 | 12:10 | Sediment | 1 |
| ✓ | | UL1-01A | 14-Sep-11 | 14:25 | Sediment | 1 |
| ✓ | | GSL-01A | 14-Sep-11 | 9:36 | Sediment | 1 |
| ✓ | | THL-01A | 15-Sep-11 | 9:30 | Sediment | 1 |
| ✓ | | THL-02A | 15-Sep-11 | 10:30 | Sediment | 1 |
| ✓ | | THL-03A | 15-Sep-11 | 11:50 | Sediment | 1 |

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

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

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.

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

Released by: *MSL* Date (dd-mm-yy): 23-Sep-11 Time (hh-mm): 10:27
 Received by: *[Signature]* Date: 23-Sep-11 Time: 15:00
 Temperature: 20.8 °C

SHIPMENT RELEASE (client use) SHIPMENT RECEIPTON (lab use only) SHIPMENT VERIFICATION (lab use only)

Verified by: _____ Date: _____ Time: _____
 Observations: Yes / No? If Yes add SIF



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

Date Received: 23-SEP-11
Report Date: 02-MAR-12 14:09 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062756
Project P.O. #: NOT SUBMITTED
Job Reference: 60212435
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------------|------------|------|-------|-----------|-----------|----------|
| L1062756-1 STC-01A Sampled By: CLIENT on 16-SEP-11 @ 10:30 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-MAR-12 | 02-MAR-12 | R2332508 |
| | | | | | | | |

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

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|-----------------------|------------------------|
| BENTHOS-WP | Soil | Benthic Invertebrates | STANDARD METHODS 10500 |

The benthic macroinvertebrates method is a procedure for identifying those organisms inhabiting the substrates of freshwater lakes and rivers. The organisms contained in large samples must be sorted to varying degrees in the laboratory before identification is performed. Samples are sorted and identified using compound and stereoscopic microscopes. Benthic organisms are identified to species where possible, enumerated and reported.

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1062756

Report Date: 02-MAR-12

Page 1 of 2

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|

Quality Control Report

Workorder: L1062756

Report Date: 02-MAR-12

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

Contact: Clifton Samoiloff

Page 2 of 2

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

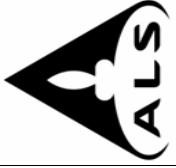
Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

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

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

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



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 Manitoba Technology Centre
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 Winnipeg, Manitoba R2J 3T4
 (204) 255-9720

Benthic Sample Results

Lab Number: L1062756-1 **Work Order:** L1062756

Date Sampled: September 16, 2011
Source: 60212435

Submitter: AECOM **Sample Type:** SEDIMENT **Station No**
WQ Site #: STC-01A **Sample ID**

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|-----------|------------|-----------------|---------------------|---------|-------|-------|------|-------|
| CRUSTACEA | OSTRACODA | | | | 0 | 0 | 0 | 2 |
| INSECTA | COLEOPTERA | PTILIDAE | <i>unidentified</i> | | 0 | 1 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 2 | 0 | 0 | 2 |



| | | | | | |
|--|--|--|--|---|--|
| Report To Company: AECOM-W172 Contact: Cliff Samoiloff Address: 99 Commerce Dr Phone: _____ Fax: _____ | | Report Format / Distribution <input type="checkbox"/> Standard <input type="checkbox"/> Other <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Digital <input type="checkbox"/> Fax Email 1: cliff.samoiloff@aecom.com Email 2: shawna.kiartanson@aecom.com Email 3: mark.hadfield@aecom.com | | Analysis Request <input checked="" type="radio"/> Regular (Standard Turnaround Times - Business Days) <input type="radio"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT | |
| Client / Project Information Client: _____ Job #: 60212435 PO / AFE: _____ LSD: _____ Quote #: Q24534 | | ALS Contact: Name: _____ Title: _____ Phone: _____ Fax: _____ | | Please indicate below Filtered, Preserved or both (F, P, F/P) P _____ BENTHOS _____ X _____ | |
| Sample Identification (This description will appear on the report) STC-01A | | Sampler: Name: _____ Time (hh:mm): 10:30 Date (dd-mm-yy): 16-Sep-11 | | Sample Type: Sediment Number of Containers: 1 | |
| Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details | | | | | |
| Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab. Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses. | | | | | |
| Released by: <i>[Signature]</i> Date (dd-mm-yy): 23-Sep-11 Time (hh-mm): 10:26 | | Received by: <i>[Signature]</i> Date: 23-Sep-11 Time: 15:00 Temperature: 20.6 °C | | Verified by: _____ Date: _____ Time: _____ | |
| SHIPMENT RELEASE (lab use only) | | SHIPMENT RECEPTION (lab use only) | | SHIPMENT VERIFICATION (lab use only) | |



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

Date Received: 23-SEP-11
Report Date: 02-MAR-12 14:09 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062758
Project P.O. #: NOT SUBMITTED
Job Reference: 60212443
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|-----------------------|------------------------|
| BENTHOS-WP | Soil | Benthic Invertebrates | STANDARD METHODS 10500 |

The benthic macroinvertebrates method is a procedure for identifying those organisms inhabiting the substrates of freshwater lakes and rivers. The organisms contained in large samples must be sorted to varying degrees in the laboratory before identification is performed. Samples are sorted and identified using compound and stereoscopic microscopes. Benthic organisms are identified to species where possible, enumerated and reported.

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| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1062758

Report Date: 02-MAR-12

Page 1 of 2

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|

Quality Control Report

Workorder: L1062758

Report Date: 02-MAR-12

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

Page 2 of 2

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

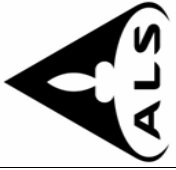
Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

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

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

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



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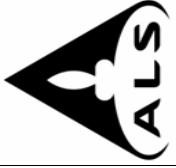
Benthic Sample Results

Lab Number: L1062758-1 **Work Order:** L1062758

Date Sampled: September 14, 2011 **Submitter:** AECOM
Source: 60212443 **WQ Site #:** GHL-01A

Sample Type: SEDIMENT **Station No:**
Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|-----------|---------------|-----------------|--------------------|---------------|-------|-------|------|-------|
| CRUSTACEA | AMPHIPODA | HYALELLIDAE | <i>Hyalella</i> | <i>azteca</i> | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 4 | 0 | 0 | 4 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 2 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Tanytarsini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | EPHEMEROPTERA | CAENIDAE | <i>Caenis</i> | <i>sp.</i> | 2 | 0 | 0 | 2 |



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Benthic Sample Results

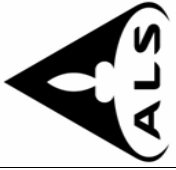
Lab Number: L1062758-2 **Work Order:** L1062758

Date Sampled: September 14, 2011 **Submitter:** AECOM
Source: 60212443 **WQ Site #:** GHL-02A

Sample Type: SEDIMENT **Station No**

Sample ID

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|-------------|----------------|-----------------|---------------------|------------------------|-------|-------|------|-------|
| ARACHNOIDEA | TROMBIDIFORMES | UNIONICOLIDAE | <i>Neumania</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |
| NEMATODA | | | <i>unidentified</i> | | 0 | 0 | 0 | 1 |
| PELECYPODA | VENEROIDA | PISIIDAE | <i>unidentified</i> | <i>Too young to ID</i> | 0 | 0 | 0 | 1 |



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Benthic Sample Results

Lab Number: L1062758-3 **Work Order:** L1062758

Date Sampled: September 14, 2011 **Submitter:** AECOM
Source: 60212443 **WQ Site #:** GHL-03A

Sample Type: SEDIMENT **Station No**

Sample ID

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|-------------|----------------|-----------------|-------------------|---------------|-------|-------|------|-------|
| ARACHNOIDEA | TROMBIDIFORMES | LIMNESHIDAE | <i>Limnesia</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |
| CRUSTACEA | AMPHIPODA | HYALELLIDAE | <i>Hyalella</i> | <i>azteca</i> | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 1 | 0 | 0 | 1 |



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

Date Received: 23-SEP-11
Report Date: 02-FEB-12 12:57 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062759
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------------|------------|------|-------|-----------|-----------|----------|
| L1062759-1 ANB-04A Sampled By: CLIENT on 16-SEP-11 @ 14:45 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-FEB-12 | 02-FEB-12 | R2320017 |
| L1062759-2 ANB-05A Sampled By: CLIENT on 16-SEP-11 @ 16:20 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-FEB-12 | 02-FEB-12 | R2320017 |
| L1062759-3 ANB-06A Sampled By: CLIENT on 16-SEP-11 @ 14:18 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-FEB-12 | 02-FEB-12 | R2320017 |
| L1062759-4 ANB-07A Sampled By: CLIENT on 16-SEP-11 @ 12:29 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-FEB-12 | 02-FEB-12 | R2320017 |
| L1062759-5 ANB-08A Sampled By: CLIENT on 16-SEP-11 @ 11:39 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-FEB-12 | 02-FEB-12 | R2320017 |
| L1062759-6 ANB-09A Sampled By: CLIENT on 16-SEP-11 @ 10:51 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-FEB-12 | 02-FEB-12 | R2320017 |
| L1062759-7 ANB-10A Sampled By: CLIENT on 16-SEP-11 @ 10:00 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-FEB-12 | 02-FEB-12 | R2320017 |
| L1062759-8 ANC-01B Sampled By: CLIENT on 15-SEP-11 @ 13:30 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-FEB-12 | 02-FEB-12 | R2320017 |
| L1062759-9 ANC-02A Sampled By: CLIENT on 14-SEP-11 @ 10:20 Matrix: SEDIMENT Miscellaneous Parameters | | | | | | | |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------------|------------|------|-------|-----------|-----------|----------|
| L1062759-9 ANC-02A Sampled By: CLIENT on 14-SEP-11 @ 10:20 Matrix: SEDIMENT Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-FEB-12 | 02-FEB-12 | R2320017 |
| | | | | | | | |

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

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|-----------------------|------------------------|
| BENTHOS-WP | Soil | Benthic Invertebrates | STANDARD METHODS 10500 |

The benthic macroinvertebrates method is a procedure for identifying those organisms inhabiting the substrates of freshwater lakes and rivers. The organisms contained in large samples must be sorted to varying degrees in the laboratory before identification is performed. Samples are sorted and identified using compound and stereoscopic microscopes. Benthic organisms are identified to species where possible, enumerated and reported.

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The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1062759

Report Date: 02-FEB-12

Page 1 of 2

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|

Quality Control Report

Workorder: L1062759

Report Date: 02-FEB-12

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

Page 2 of 2

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

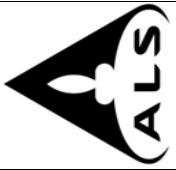
Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

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

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

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



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Benthic Sample Results

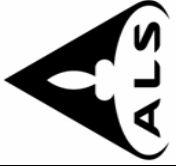
Lab Number: L1062759-1 **Work Order:** L1062759

Date Sampled: September 16, 2011 **Submitter:** AECOM
Source: 60213483 **WQ Site #:** ANB-04A

Sample Type: SEDIMENT **Station No:**

Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|------------|----------------|-----------------|------------------------|------------------------|-------|-------|------|-------|
| CRUSTACEA | AMPHIPODA | HYALELLIDAE | <i>Hyalella</i> | <i>azteca</i> | 0 | 0 | 0 | 15 |
| CRUSTACEA | CLADOCERA | | | | 0 | 0 | 0 | 1 |
| CRUSTACEA | COPEPODA | CALANOIDA | | | 0 | 0 | 0 | 2 |
| CRUSTACEA | COPEPODA | CYCLOPOIDA | | | 0 | 0 | 0 | 12 |
| CRUSTACEA | OSTRACODA | | | | 0 | 0 | 0 | 6 |
| GASTROPODA | BASOMMATOPHOR | ANCYLIDAE | <i>Ferrissia</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |
| GASTROPODA | BASOMMATOPHOR | PLANORBIIDAE | <i>Gyraulus</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |
| GASTROPODA | NEOTAENIOGLOSS | HYDROBIIDAE | <i>Amnicola</i> | <i>limosa</i> | 0 | 0 | 0 | 1 |
| GASTROPODA | NEOTAENIOGLOSS | HYDROBIIDAE | <i>Amnicola</i> | <i>walkeri</i> | 0 | 0 | 0 | 2 |
| GASTROPODA | NEOTAENIOGLOSS | HYDROBIIDAE | <i>Cincinnatia</i> | <i>cincinnatiensis</i> | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 10 | 0 | 0 | 10 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 11 | 0 | 0 | 11 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Coelotanypodini</i> | | 2 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Orthocladinae</i> | | 2 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Pentaneurini</i> | | 3 | 0 | 0 | 3 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 8 | 0 | 0 | 8 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Tanytarsini</i> | | 7 | 0 | 0 | 7 |
| INSECTA | EPHEMEROPTERA | | <i>unidentified</i> | <i>damaged</i> | 1 | 0 | 0 | 1 |
| INSECTA | EPHEMEROPTERA | CAENIDAE | <i>Caenis</i> | <i>sp.</i> | 3 | 0 | 0 | 3 |
| INSECTA | EPHEMEROPTERA | EPHEMERIDAE | <i>Hexagenia</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| INSECTA | TRICHOPTERA | LEPTOCERIDAE | <i>Oecetis</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |



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Benthic Sample Results

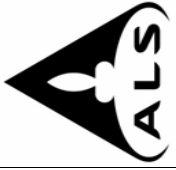
Lab Number: L1062759-1

Work Order: L1062759

Date Sampled: September 16, 2011
 Source: 60213483

Submitter: AECOM
 WQ Site #: ANB-04A
 Sample Type: SEDIMENT
 Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|------------|-------------|-----------------|--------------|-----------------|-------|-------|------|-------|
| INSECTA | TRICHOPTERA | MOLANNIDAE | Molanna | sp. | 1 | 0 | 0 | 1 |
| INSECTA | TRICHOPTERA | PHRYGANEIDAE | Phryganea | sp. | 1 | 0 | 0 | 1 |
| NEMATODA | | | unidentified | | 0 | 0 | 0 | 1 |
| PELECYPODA | VENEROIDA | PISIIDAE | unidentified | Too young to ID | 0 | 0 | 0 | 5 |



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Benthic Sample Results

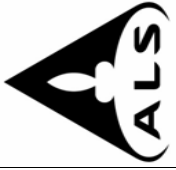
Lab Number: L1062759-2 **Work Order:** L1062759

Date Sampled: September 15, 2011 **Submitter:** AECOM
Source: 60213483 **WQ Site #:** ANB-05A

Sample Type: SEDIMENT **Station No:**

Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|-------------|-----------------|-----------------|------------------------|------------------|-------|-------|------|-------|
| ANNELIDA | HIRUDINEA | GLOSSIPHONIIDAE | <i>Helobdella</i> | <i>stagnalis</i> | 0 | 0 | 0 | 1 |
| ARACHNOIDEA | TROMBIDIFORMES | HYGROBATIDAE | <i>Megapus</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |
| CRUSTACEA | AMPHIPODA | HYALELLIDAE | <i>Hyalella</i> | <i>azteca</i> | 0 | 0 | 0 | 1 |
| CRUSTACEA | COPEPODA | CYCLOPOIDA | | | 0 | 0 | 0 | 1 |
| CRUSTACEA | COPEPODA | HARPACTICOIDA | | | 0 | 0 | 0 | 1 |
| GASTROPODA | | | <i>unidentified</i> | <i>damaged</i> | 0 | 0 | 0 | 1 |
| GASTROPODA | NEOTAEENIOGLOSS | HYDROBIIDAE | <i>Amnicola</i> | <i>limosa</i> | 0 | 0 | 0 | 1 |
| GASTROPODA | NEOTAEENIOGLOSS | HYDROBIIDAE | <i>Amnicola</i> | <i>walkeri</i> | 0 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 6 | 0 | 0 | 6 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 11 | 0 | 0 | 11 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Coelotanypodini</i> | | 2 | 0 | 0 | 2 |
| INSECTA | EPHEMEROPTERA | CAENIDAE | <i>Caenis</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| NEMATODA | | | <i>unidentified</i> | | 0 | 0 | 0 | 1 |



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Benthic Sample Results

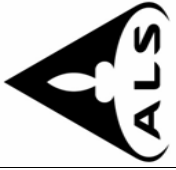
Lab Number: **L1062759-3** Work Order: **L1062759**

Date Sampled September 16, 2011 AECOM
Source: 60213483 WQ Site #: ANB-06A

Sample Type SEDIMENT
Station No

Sample ID

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|-------------|----------------|-----------------|---------------------|------------------------|-------|-------|------|-------|
| ARACHNOIDEA | TROMBIDIFORMES | MIDEOPSIDAE | <i>Mideopsis</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |
| CRUSTACEA | AMPHIPODA | HYALELLIDAE | <i>Hyalella</i> | <i>azteca</i> | 0 | 0 | 0 | 7 |
| GASTROPODA | NEOTAENIOGLOSS | HYDROBIIDAE | <i>Amnicola</i> | <i>limosa</i> | 0 | 0 | 0 | 3 |
| GASTROPODA | NEOTAENIOGLOSS | HYDROBIIDAE | <i>Amnicola</i> | <i>walkeri</i> | 0 | 0 | 0 | 2 |
| GASTROPODA | NEOTAENIOGLOSS | HYDROBIIDAE | <i>unidentified</i> | <i>too young to ID</i> | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 2 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 3 | 0 | 0 | 3 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Pentaneurini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 8 | 0 | 0 | 8 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Tanypodini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | EPHEMEROPTERA | EPHEMERIDAE | <i>Hexagenia</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| INSECTA | MEGALOPTERA | SIALIDAE | <i>Sialis</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| NEMATODA | | | <i>unidentified</i> | | 0 | 0 | 0 | 5 |



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Benthic Sample Results

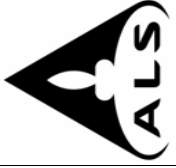
Lab Number: **L1062759-4** Work Order: **L1062759**

Date Sampled September 16, 2011 AECOM
Source: 60213483 WQ Site #: ANB-07A

Sample Type SEDIMENT
Station No

Sample ID

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|------------|----------------|-----------------|----------------------|------------------------|-------|-------|------|-------|
| CRUSTACEA | AMPHIPODA | HYALELLIDAE | <i>Hyalella</i> | <i>azteca</i> | 0 | 0 | 0 | 1 |
| CRUSTACEA | OSTRACODA | | | | 0 | 0 | 0 | 1 |
| GASTROPODA | | | <i>unidentified</i> | <i>damaged</i> | 0 | 0 | 0 | 1 |
| GASTROPODA | NEOTAENIOGLOSS | HYDROBIIDAE | <i>Amnicola</i> | <i>limosa</i> | 0 | 0 | 0 | 2 |
| GASTROPODA | NEOTAENIOGLOSS | HYDROBIIDAE | <i>unidentified</i> | <i>too young to ID</i> | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 2 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 14 | 0 | 0 | 14 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Orthocladinae</i> | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Pentaneurini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 10 | 0 | 0 | 10 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Tanypodini</i> | | 4 | 0 | 0 | 4 |
| INSECTA | EPEMEROPTERA | EPEMERIDAE | <i>Hexagenia</i> | <i>sp.</i> | 5 | 0 | 0 | 5 |



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Benthic Sample Results

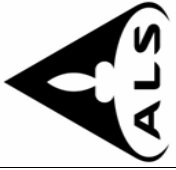
Lab Number: L1062759-5 **Work Order:** L1062759

Date Sampled: September 16, 2011 **Submitter:** AECOM
Source: 60213483 **WQ Site #:** ANB-08A

Sample Type: SEDIMENT **Station No:**

Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|------------|---------------|-----------------|---------------------|-------------|-------|-------|------|-------|
| CRUSTACEA | AMPHIPODA | PONTOPOREIIDAE | <i>Diporeia</i> | <i>hoyi</i> | 0 | 0 | 0 | 5 |
| CRUSTACEA | OSTRACODA | | | | 0 | 0 | 0 | 3 |
| INSECTA | DIPTERA | CHAOBORIDAE | <i>Chaoborus</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 2 | 0 | 0 | 2 |
| INSECTA | EPHEMEROPTERA | EPHEMERIDAE | <i>Hexagenia</i> | <i>sp.</i> | 2 | 0 | 0 | 2 |
| INSECTA | MEGALOPTERA | SIALIDAE | <i>Sialis</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| NEMATODA | | | <i>unidentified</i> | | 0 | 0 | 0 | 13 |
| PELECYPODA | VENEROIDA | PISIIDAE | <i>damaged</i> | | 0 | 0 | 0 | 6 |



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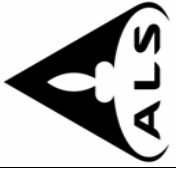
Benthic Sample Results

Lab Number: L1062759-6 **Work Order:** L1062759

Date Sampled: September 16, 2011 **Submitter:** AECOM
Source: 60213483 **WQ Site #:** ANB-09A

Sample Type: SEDIMENT **Station No:**
Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|-------------|----------------|-----------------|---------------------|------------------|-------|-------|------|-------|
| ANNELIDA | OLIGOCHAETA | NAIDAE | <i>Stylaria</i> | <i>lacustris</i> | 0 | 0 | 0 | 7 |
| ANNELIDA | OLIGOCHAETA | TUBIFICIDAE | unidentified | with hair setae | 0 | 0 | 0 | 1 |
| ARACHNOIDEA | TROMBIDIFORMES | | unidentified | | 0 | 0 | 0 | 1 |
| CRUSTACEA | AMPHIPODA | PONTOPOREIIDAE | <i>Diporeia</i> | <i>hoyi</i> | 0 | 0 | 0 | 9 |
| CRUSTACEA | COPEPODA | CYCLOPOIDA | | | 0 | 0 | 0 | 2 |
| CRUSTACEA | OSTRACODA | | | | 0 | 0 | 0 | 4 |
| INSECTA | DIPTERA | CHAOBORIDAE | <i>Chaoborus</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 2 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Pentaneurini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Tanytarsini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | EPHEMEROPTERA | EPHEMERIDAE | <i>Hexagenia</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| NEMATODA | | | unidentified | | 0 | 0 | 0 | 58 |
| PELECYPODA | VENEROIDA | PISIIDAE | unidentified | Too young to ID | 0 | 0 | 0 | 7 |



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Benthic Sample Results

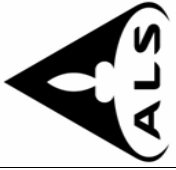
Lab Number: L1062759-7 **Work Order:** L1062759

Date Sampled: September 16, 2011 **Submitter:** AECOM
Source: 60213483 **WQ Site #:** ANB-10A

Sample Type: SEDIMENT
Station No:

Sample ID

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|------------|----------------|-----------------|--------------|--------------------|-------|-------|------|-------|
| ANNELIDA | OLIGOCHAETA | TUBIFICIDAE | unidentified | with hair setae | 0 | 0 | 0 | 2 |
| ANNELIDA | OLIGOCHAETA | TUBIFICIDAE | unidentified | without hair setae | 0 | 0 | 0 | 2 |
| CRUSTACEA | CLADOCERA | | | | 0 | 0 | 0 | 1 |
| CRUSTACEA | OSTRACODA | | | | 0 | 0 | 0 | 14 |
| GASTROPODA | NEOTAENIOGLOSS | HYDROBIIDAE | Marstonia | decepta | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | Chironomini | | 33 | 0 | 0 | 33 |
| INSECTA | DIPTERA | CHIRONOMIDAE | Pentaneurini | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | Procladini | | 17 | 0 | 0 | 17 |
| INSECTA | DIPTERA | CHIRONOMIDAE | Tanypodini | | 5 | 0 | 0 | 5 |
| INSECTA | DIPTERA | CHIRONOMIDAE | Tanytarsini | | 8 | 0 | 0 | 8 |
| INSECTA | EPHEMEROPTERA | | unidentified | damaged | 1 | 0 | 0 | 1 |
| INSECTA | EPHEMEROPTERA | CAENIDAE | Caenis | sp. | 3 | 0 | 0 | 3 |
| INSECTA | EPHEMEROPTERA | EPHEMERIDAE | Hexagenia | sp. | 3 | 0 | 0 | 3 |
| INSECTA | MEGALOPTERA | SIALIDAE | Sialis | sp. | 1 | 0 | 0 | 1 |
| PELECYPODA | VENEROIDA | PISIIDAE | Pisidium | sp. | 0 | 0 | 0 | 1 |
| PELECYPODA | VENEROIDA | PISIIDAE | unidentified | Too young to ID | 0 | 0 | 0 | 7 |



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Benthic Sample Results

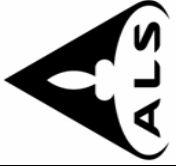
Lab Number: L1062759-8 **Work Order:** L1062759

Date Sampled: September 15, 2011 **Submitter:** AECOM
Source: 60213483 **WQ Site #:** ANC-01B

Sample Type: SEDIMENT **Station No:**

Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|------------|-----------|-----------------|--------------------|------------------|-------|-------|------|-------|
| ANNELIDA | HIRUDINEA | GLOSSIPHONIIDAE | <i>Helobdella</i> | <i>stagnalis</i> | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 2 | 0 | 0 | 2 |
| PELECYPODA | VENEROIDA | PISIIDAE | <i>Pisidium</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |



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Benthic Sample Results

Lab Number: L1062759-9 **Work Order:** L1062759

Date Sampled: September 14, 2011 **Submitter:** AECOM
Source: 60213483 **WQ Site #:** ANC-02A

Sample Type: SEDIMENT **Station No**

Sample ID

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|-----------|----------|-----------------|--------------------|---------|-------|-------|------|-------|
| CRUSTACEA | COPEPODA | CYCLOPOIDA | | | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 1 | 0 | 0 | 1 |



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

Date Received: 23-SEP-11
Report Date: 11-OCT-11 13:34 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062760
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062760-1 ANC-01B | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 13:55 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.73 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 0.86 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 6.06 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 1.6 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 37.4 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263667 |
| Total Nitrogen by LECO | 0.059 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 486 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 27.8 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 20.6 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 51.6 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Clay | | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Metals | | | | | | | |
| Aluminum (Al) | 4500 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 1.19 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 6.85 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 145 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.91 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.218 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 15.4 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.154 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 22800 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.69 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 63.7 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 16.4 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 35.7 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 4670 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 10.5 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 16200 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 691 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.272 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 41.9 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 490 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 5840 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 64.5 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 0.52 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.19 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 524 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 44.4 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.30 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 1450 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.134 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.01 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 64.4 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 221 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062760-1 ANC-01B Sampled By: CLIENT on 15-SEP-11 @ 13:55 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 30.8 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062760-2 ANC-01A Sampled By: CLIENT on 15-SEP-11 @ 13:30 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.80 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 0.59 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 6.69 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 1.4 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 34.3 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263667 |
| Total Nitrogen by LECO | 0.045 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 517 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 35900 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 0.83 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 5.96 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 173 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 1.13 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.273 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 16.6 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.114 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 28700 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 3.23 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 74.3 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 18.6 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 36.4 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 43500 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 12.1 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 18400 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 741 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.297 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 51.4 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 530 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 6980 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 75.4 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | <0.50 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.23 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 570 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 53.3 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.34 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 1640 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.123 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.08 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 76.0 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 159 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062760-2 ANC-01A Sampled By: CLIENT on 15-SEP-11 @ 13:30 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 39.0 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062760-3 ANC-01C Sampled By: CLIENT on 15-SEP-11 @ 14:05 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.79 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 0.77 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 6.57 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 1.6 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 30.9 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263667 |
| Total Nitrogen by LECO | 0.055 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 516 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 33700 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 0.83 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 5.92 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 164 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 1.12 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.273 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 17.2 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.118 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 30100 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 3.09 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 72.3 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 17.9 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 35.9 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 41900 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 11.5 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 19000 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 751 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.483 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 48.4 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 540 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 6700 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 73.0 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | <0.50 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.22 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 542 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 51.8 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.33 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 1550 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.129 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.13 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 71.7 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 173 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062760-3 ANC-01C Sampled By: CLIENT on 15-SEP-11 @ 14:05 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 38.2 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062760-4 ANC-02A Sampled By: CLIENT on 17-SEP-11 @ 10:20 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.13 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 6.74 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.10 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 6.9 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 64.9 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263667 |
| Total Nitrogen by LECO | 0.372 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 465 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 24.7 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 20.6 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 54.7 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Clay | | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Metals | | | | | | | |
| Aluminum (Al) | 33700 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 4.97 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 7.55 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 141 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.93 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.215 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 13.3 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.906 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 10000 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.78 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 77.3 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 18.1 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 43.8 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 38700 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 13.5 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 12800 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 414 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.500 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 46.4 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 490 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 6330 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 73.5 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 1.33 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.20 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 407 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 42.7 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.31 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|--------|------------|-------|-------|-----------|-----------|----------|
| L1062760-4 ANC-02A | | | | | | | |
| Sampled By: CLIENT on 17-SEP-11 @ 10:20 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 1260 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.155 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.49 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 67.5 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 688 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 28.5 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062760-5 ANC-02B | | | | | | | |
| Sampled By: CLIENT on 17-SEP-11 @ 10:30 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.11 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 3.03 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 0.89 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 3.1 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 44.6 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263667 |
| Total Nitrogen by LECO | 0.215 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 474 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 30500 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 3.19 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 9.46 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 133 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.86 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.189 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 14.7 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.574 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 9960 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.47 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 72.9 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 19.9 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 43.9 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 37500 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 14.9 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 12800 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 454 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.327 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 45.7 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 500 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 5850 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 67.7 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 1.54 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.18 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 436 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 38.3 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.32 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|--------|------------|-------|-------|-----------|-----------|----------|
| L1062760-5 ANC-02B | | | | | | | |
| Sampled By: CLIENT on 17-SEP-11 @ 10:30 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 1320 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.141 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.32 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 65.6 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 670 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 24.9 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062760-6 ANC-02C | | | | | | | |
| Sampled By: CLIENT on 17-SEP-11 @ 10:00 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.12 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 7.57 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.02 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 7.7 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 61.2 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263667 |
| Total Nitrogen by LECO | 0.330 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 426 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 35900 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 0.26 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 4.66 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 161 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 1.08 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.264 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 12.5 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.172 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 9160 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 3.11 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 73.8 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 17.0 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 27.5 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 40000 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 12.5 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 13500 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 486 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.211 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 44.3 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 400 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 6110 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 77.4 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | <0.50 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.19 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 386 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 40.3 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.33 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---|--------|--|---------------------------------|
| C-INORG-ORG-SK | Soil | Inorganic and Organic Carbon | SSSA (1996) P455-456 |
| <p>When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.</p> <p>Reference: Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p> | | | |
| C-TOT-LECO-SK | Soil | Total Carbon by combustion method | SSSA (1996) P. 973-974 |
| <p>The sample is introduced into a quartz tube where it undergoes combustion at 900 C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p> | | | |
| HG-200.2-CVAF-WP | Soil | Mercury Total | EPA 7470A Rev 1,1994 |
| <p>A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.</p> | | | |
| MET-200.2-MS-WP | Soil | Metals | EPA 200.8/200.2 /BCMOE-S |
| <p>This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements . Soil samples are dried (<60 C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.</p> <p>The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.</p> <p>Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.</p> | | | |
| MOIST-SK | Soil | Moisture Content | ASTM D2216-80 |
| <p>The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.</p> <p>Reference: ASTM D2216-80</p> | | | |
| N-TOT-LECO-SK | Soil | Total Nitrogen by combustion method | SSSA (1996) p. 973-974 |
| <p>The sample is introduced into a quartz tube where it undergoes combustion at 900 C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p> | | | |
| P-SALM-ICP-SK | Soil | Total Phosphorus | EPA 200.2 |
| <p>This analysis is carried out using procedures from CSR Analytical Method: "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, 26 June 2009, and procedures adapted from EPA Method 200.2. The sample is dried at 40 C, then ground to < 2 mm particle size using a stainless steel flail grinder. A representative portion is digested with concentrated nitric and hydrochloric acids for 2 hours in an open vessel digester at 95 degrees. Instrumental analysis of the digested extract is by ICP-OES.</p> | | | |
| PSA-3-SK | Soil | Particle size - Pipette removal OM & CO ₃ | Forestry Canada (1991) p. 46-53 |
| <p>Dry, < 2 mm soil is treated hydrochloric acid top remove carbonates, then hydrogen peroxide to remove organic matter. The remaining soil is treated with sodium hexametaphosphate to ensure complete dispersion of primary soil particles. The homogenized suspension is allowed to settle in accordance with Stoke's Law so that only clay particles remain in suspension. To determine the clay fraction, an aliquot of the clay suspension is removed, then dried and weighed. The sand fraction is determined by wet sieving the remaining suspension, then drying and weighing the sand retained</p> | | | |

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

on the sieve. The silt fraction is determined by calculation where % Silt = 100 - (%Sand+%Clay)

Reference:

Burt, R. (2009). Soil Survey Field and Laboratory Methods Manual. Soil Survey Investigations Report No. 5. Method 3.2.1.2.2. United States Department of Agriculture Natural Resources Conservation Service.

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| SK | ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA |
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1062760

Report Date: 11-OCT-11

Page 1 of 10

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|--------|-----------|-------|------|-----------|-----------|
| C-INORG-ORG-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264114 | | | | | | | |
| WG1360093-1 | DUP | L1062760-6 | | | | | | |
| Inorganic Carbon | | 0.12 | 0.12 | | % | 0.71 | 30 | 04-OCT-11 |
| CaCO3 Equivalent | | 1.02 | 1.02 | | % | 0.71 | 25 | 04-OCT-11 |
| WG1360093-2 | IRM | 0.4%IC | | | | | | |
| Inorganic Carbon | | | 0.44 | | % | | 0.28-0.52 | 04-OCT-11 |
| CaCO3 Equivalent | | | 3.68 | | % | | 2.33-4.33 | 04-OCT-11 |
| WG1360093-3 | MB | | | | | | | |
| Inorganic Carbon | | | <0.10 | | % | | 0.1 | 04-OCT-11 |
| CaCO3 Equivalent | | | <0.70 | | % | | 1 | 04-OCT-11 |
| C-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264112 | | | | | | | |
| WG1360059-1 | DUP | L1062761-1 | | | | | | |
| Total Carbon by Combustion | | 31.6 | 31.5 | | % | 0.28 | 10 | 03-OCT-11 |
| WG1360059-2 | IRM | 08-109_SOIL | | | | | | |
| Total Carbon by Combustion | | | 1.6 | | % | | 1.1-1.7 | 03-OCT-11 |
| WG1360059-3 | MB | | | | | | | |
| Total Carbon by Combustion | | | <0.1 | | % | | 0.1 | 03-OCT-11 |
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2266580 | | | | | | | |
| WG1364408-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 109 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 101 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-4 | DUP | L1062760-5 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 06-OCT-11 |
| WG1364408-5 | DUP | L1062716-9 | | | | | | |
| Mercury (Hg)-Total | | 0.066 | 0.078 | | mg/kg | 16 | 40 | 06-OCT-11 |
| WG1364408-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 06-OCT-11 |
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 113 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 93 | | % | | 70-130 | 29-SEP-11 |



Quality Control Report

Workorder: L1062760

Report Date: 11-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-2 | CRM | NRC PACS-2 | | | | | | |
| Boron (B) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 105 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 89 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Titanium (Ti) | | | 112 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |
| Aluminum (Al) | | | 73 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 86 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 106 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 108 | | % | | 70-130 | 29-SEP-11 |



Quality Control Report

Workorder: L1062760

Report Date: 11-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |
| Lead (Pb) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 123 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 85 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 87 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 79 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 75 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Aluminum (Al) | | 6440 | 6690 | | mg/kg | 3.8 | 40 | 29-SEP-11 |
| Arsenic (As) | | 7.64 | 7.96 | | mg/kg | 4.1 | 30 | 29-SEP-11 |
| Barium (Ba) | | 60.5 | 65.4 | | mg/kg | 7.8 | 40 | 29-SEP-11 |
| Bismuth (Bi) | | 0.087 | 0.075 | | mg/kg | 15 | 30 | 29-SEP-11 |
| Boron (B) | | 2.8 | 3.4 | | mg/kg | 20 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 4.76 | 4.86 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 3140 | 3540 | | mg/kg | 12 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 0.407 | 0.423 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 11.8 | 13.2 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 117 | 136 | | mg/kg | 16 | 30 | 29-SEP-11 |
| Copper (Cu) | | 427 | 462 | | mg/kg | 8.0 | 30 | 29-SEP-11 |
| Iron (Fe) | | 25800 | 25200 | | mg/kg | 2.3 | 30 | 29-SEP-11 |
| Lead (Pb) | | 10.9 | 9.63 | | mg/kg | 13 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 1760 | 1940 | | mg/kg | 9.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 105 | 126 | | mg/kg | 18 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.764 | 0.848 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 38.4 | 43.2 | | mg/kg | 12 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062760

Report Date: 11-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Phosphorus (P) | | 510 | 530 | | mg/kg | 3.9 | 30 | 29-SEP-11 |
| Potassium (K) | | 575 | 595 | | mg/kg | 3.4 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 4.56 | 5.53 | | mg/kg | 19 | 30 | 29-SEP-11 |
| Selenium (Se) | | 2.66 | 2.73 | | mg/kg | 2.9 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.14 | 0.15 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Sodium (Na) | | 231 | 282 | | mg/kg | 20 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 9.69 | 12.1 | | mg/kg | 22 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 187 | 200 | | mg/kg | 6.5 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.090 | 0.084 | | mg/kg | 6.8 | 30 | 29-SEP-11 |
| Uranium (U) | | 0.613 | 0.563 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 17.3 | 19.1 | | mg/kg | 9.9 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 4890 | 5140 | | mg/kg | 5.1 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 2.82 | 3.07 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Aluminum (Al) | | 30500 | 29800 | | mg/kg | 2.1 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 3.19 | 3.15 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.15 | | mg/kg | 3.3 | 30 | 29-SEP-11 |
| Barium (Ba) | | 133 | 130 | | mg/kg | 2.8 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.86 | 0.88 | | mg/kg | 2.8 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.189 | 0.177 | | mg/kg | 6.4 | 30 | 29-SEP-11 |
| Boron (B) | | 14.7 | 15.0 | | mg/kg | 2.1 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.574 | 0.513 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 9960 | 9830 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 2.47 | 2.43 | | mg/kg | 1.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 72.9 | 73.2 | | mg/kg | 0.35 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.9 | 19.3 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Copper (Cu) | | 43.9 | 43.0 | | mg/kg | 2.2 | 30 | 29-SEP-11 |
| Iron (Fe) | | 37500 | 38900 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Lead (Pb) | | 14.9 | 13.6 | | mg/kg | 9.6 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 12800 | 12900 | | mg/kg | 0.32 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062760

Report Date: 11-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Manganese (Mn) | | 454 | 448 | | mg/kg | 1.4 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.327 | 0.330 | | mg/kg | 1.1 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 45.7 | 44.9 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 500 | 500 | | mg/kg | 1.0 | 30 | 29-SEP-11 |
| Potassium (K) | | 5850 | 5880 | | mg/kg | 0.64 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 67.7 | 66.9 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.54 | 1.43 | | mg/kg | 7.3 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.18 | 0.19 | | mg/kg | 4.7 | 40 | 29-SEP-11 |
| Sodium (Na) | | 436 | 468 | | mg/kg | 7.0 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 38.3 | 38.7 | | mg/kg | 0.94 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.32 | 0.29 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 1320 | 1330 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 5.2 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.32 | 1.24 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 65.6 | 66.1 | | mg/kg | 0.83 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 670 | 660 | | mg/kg | 1.6 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 24.9 | 26.4 | | mg/kg | 5.6 | 30 | 29-SEP-11 |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Aluminum (Al) | | 21900 | 21200 | | mg/kg | 3.3 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 4.10 | 4.16 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.43 | | mg/kg | 0.32 | 30 | 29-SEP-11 |
| Barium (Ba) | | 111 | 110 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.59 | 0.54 | | mg/kg | 9.6 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.140 | 0.144 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Boron (B) | | 18.9 | 17.5 | | mg/kg | 7.9 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.714 | 0.714 | | mg/kg | 0.020 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 13400 | 13200 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 1.97 | 1.90 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 55.1 | 53.0 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.3 | 18.5 | | mg/kg | 4.0 | 30 | 29-SEP-11 |
| Copper (Cu) | | 41.0 | 40.9 | | mg/kg | 0.23 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062760

Report Date: 11-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Iron (Fe) | | 28200 | 29200 | | mg/kg | 3.4 | 30 | 29-SEP-11 |
| Lead (Pb) | | 9.92 | 10.5 | | mg/kg | 6.1 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 9610 | 9490 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 701 | 656 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.532 | 0.535 | | mg/kg | 0.44 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 33.0 | 32.7 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 620 | 620 | | mg/kg | 0.48 | 30 | 29-SEP-11 |
| Potassium (K) | | 4260 | 4280 | | mg/kg | 0.47 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 51.8 | 48.3 | | mg/kg | 7.1 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.88 | 1.90 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.15 | 0.16 | | mg/kg | 7.2 | 40 | 29-SEP-11 |
| Sodium (Na) | | 351 | 354 | | mg/kg | 0.81 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 45.8 | 42.9 | | mg/kg | 6.7 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.23 | 0.24 | | mg/kg | 4.7 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 955 | 979 | | mg/kg | 2.6 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.112 | 0.125 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.31 | 1.33 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 48.8 | 48.5 | | mg/kg | 0.73 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 405 | 413 | | mg/kg | 2.0 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 20.1 | 20.1 | | mg/kg | 0.13 | 30 | 29-SEP-11 |
| WG1359420-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |



Quality Control Report

Workorder: L1062760

Report Date: 11-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 29-SEP-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 29-SEP-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| N-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264112 | | | | | | | |
| WG1360059-1 | DUP | L1062761-1 | | | | | | |
| Total Nitrogen by LECO | | 2.92 | 2.91 | J | % | 0.013 | 0.05 | 03-OCT-11 |
| WG1360059-2 | IRM | 08-109_SOIL | | | | | | |
| Total Nitrogen by LECO | | | 0.118 | | % | | 0.085-0.135 | 03-OCT-11 |
| WG1360059-3 | MB | | | | | | | |
| Total Nitrogen by LECO | | | <0.020 | | % | | 0.02 | 03-OCT-11 |
| P-SALM-ICP-SK | | | | | | | | |
| | Soil | | | | | | | |



Quality Control Report

Workorder: L1062760

Report Date: 11-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|------|----------|-----------|
| P-SALM-ICP-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263935 | | | | | | | |
| WG1359961-2 CRM | | SS-1_SOIL | | | | | | |
| Phosphorus, Total | | | 1080 | | mg/kg | | 750-1530 | 04-OCT-11 |
| WG1359961-4 DUP | | L1062760-6 | | | | | | |
| Phosphorus, Total | | 426 | 441 | | mg/kg | 3.5 | 30 | 04-OCT-11 |
| WG1359961-5 DUP | | L1062732-6 | | | | | | |
| Phosphorus, Total | | 668 | 652 | | mg/kg | 2.5 | 30 | 04-OCT-11 |
| WG1359961-1 MB | | | | | | | | |
| Phosphorus, Total | | | <50 | | mg/kg | | 50 | 04-OCT-11 |
| PSA-3-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264462 | | | | | | | |
| WG1360043-1 DUP | | L1062763-4 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | 25.7 | 25.4 | J | % | 0.22 | 10 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | 31.9 | 30.1 | J | % | 1.81 | 10 | 05-OCT-11 |
| % Clay (<2um) | | 42.4 | 44.5 | J | % | 2.03 | 10 | 05-OCT-11 |
| WG1360043-2 IRM | | FARM2009 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | | 49.9 | | % | | 45-55 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | | 33.4 | | % | | 29-39 | 05-OCT-11 |
| % Clay (<2um) | | | 16.7 | | % | | 10-20 | 05-OCT-11 |

Quality Control Report

Workorder: L1062760

Report Date: 11-OCT-11

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

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Contact: Clifton Samoiloff

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Sample Parameter Qualifier Definitions:

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

Quality Control Report

Workorder: L1062760

Report Date: 11-OCT-11

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

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Moisture Content | | | | | | | |
| | 1 | 15-SEP-11 13:55 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 2 | 15-SEP-11 13:30 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 3 | 15-SEP-11 14:05 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 4 | 17-SEP-11 10:20 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 5 | 17-SEP-11 10:30 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 6 | 17-SEP-11 10:00 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| | 1 | 15-SEP-11 13:55 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 2 | 15-SEP-11 13:30 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 3 | 15-SEP-11 14:05 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 4 | 17-SEP-11 10:20 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 5 | 17-SEP-11 10:30 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 6 | 17-SEP-11 10:00 | 04-OCT-11 00:00 | 14 | 17 | 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 L1062760 were received on 23-SEP-11 15:00.

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.

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



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

Format / Distribution
 Other
 PDF
 Excel
 Digital
 Fax
 Email 1: cliff.samoiloff@aecom.com
 Email 2: shawna.kjartanson@aecom.com
 Email 3: mark.hadfield@aecom.com

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

Analysis Request
 Please indicate below Filtered, Preserved or both (F, P, F/P)
 C-TOT-ORG-SK
 MOIST-SK
 N-TOT-LECO-SK
 P-SALM-ICP-SK
 MET-200.2-MS-WP
 HG-200.2-CVAF-WP
 PREP-DRY/GRIND
 PSA-1 (Or 3 if 1 not possible)

| Sample # | Sample Identification (This description will appear on the report) | Date (dd-mm-yy) | Time (hh:mm) | Sample Type | Number of Containers |
|----------|---|--------------------|-----------------|-------------|----------------------|
| | ANC-01B | 15-Sep-11 | 13:55 | Sediment | 2 |
| | ANC-01A | 15-Sep-11 | 13:30 | Sediment | 1 |
| | ANC-01C | 15-Sep-11 | 14:05 | Sediment | 1 |
| | ANC-02A | 17-Sep-11 | 10:20 | Sediment | 2 |
| | ANC-02B | 17-Sep-11 | 10:30 | Sediment | 1 |
| | ANC-02C | 17-Sep-11 | 10:00 | Sediment | 1 |

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

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

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)
 Released by: *[Signature]* Date: 03-Sep-11 Time: 09:59

SHIPMENT RECEPTION (lab use only)
 Received by: *[Signature]* Date: 03-Sep-11 Time: 15:00 Temperature: 20.9 °C

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



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

Date Received: 23-SEP-11
Report Date: 13-OCT-11 13:33 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062761
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------------------------|------------|-------|-------|-----------|-----------|----------|
| L1062761-1 | GSL-01A | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 09:36 | | | | | | |
| Matrix: | SEDIMENT | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.15 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 31.4 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.28 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 31.6 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.126 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 96.4 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 2.92 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 828 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 1.67 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 85.7 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 12.6 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Silt loam | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Note: Results Unreliable. Insufficient soil for analysis. | | | | | | | |
| Metals | | | | | | | |
| Aluminum (Al) | 4040 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Antimony (Sb) | 0.16 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Arsenic (As) | 19.8 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Barium (Ba) | 60.9 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Bismuth (Bi) | 0.113 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Boron (B) | 8.3 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cadmium (Cd) | 0.656 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Calcium (Ca) | 10100 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cesium (Cs) | 0.364 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Chromium (Cr) | 13.2 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cobalt (Co) | 6.71 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Copper (Cu) | 16.3 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Iron (Fe) | 19100 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Lead (Pb) | 10.3 | | 0.20 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Magnesium (Mg) | 1370 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Manganese (Mn) | 325 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Molybdenum (Mo) | 0.953 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Nickel (Ni) | 14.3 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Phosphorus (P) | 710 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Potassium (K) | 466 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Rubidium (Rb) | 3.36 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Selenium (Se) | 0.95 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Sodium (Na) | 85 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Strontium (Sr) | 17.8 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Titanium (Ti) | 78.0 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tungsten (W) | 0.136 | | 0.050 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Uranium (U) | 0.278 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Vanadium (V) | 9.96 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------------------------|------------|-------|-------|-----------|-----------|----------|
| L1062761-1 | GSL-01A | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 09:36 | | | | | | |
| Matrix: | SEDIMENT | | | | | | |
| Metals | | | | | | | |
| Zinc (Zn) | 117 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zirconium (Zr) | 3.16 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| L1062761-2 | GSL-01B | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 10:05 | | | | | | |
| Matrix: | SEDIMENT | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.17 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 32.1 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.41 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 32.3 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.080 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 95.4 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 2.75 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 531 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 3530 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 9.41 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 52.4 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.034 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 4.7 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.357 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 9180 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 0.300 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 7.3 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 5.10 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 9.6 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 10300 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 2.93 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 1120 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 292 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.755 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 9.05 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 370 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 250 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 2.74 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 0.73 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 63 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 16.0 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 68.6 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | <0.050 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 0.221 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 8.35 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------------------------|------------|-------|-------|-----------|-----------|----------|
| L1062761-2 | GSL-01B | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 10:05 | | | | | | |
| Matrix: | SEDIMENT | | | | | | |
| Metals | | | | | | | |
| Zinc (Zn) | 75 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 2.51 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062761-3 | GSL-01C | | | | | | |
| Sampled By: | CLIENT on 14-SEP-11 @ 10:10 | | | | | | |
| Matrix: | SEDIMENT | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.16 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 31.8 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.29 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 31.9 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.097 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 96.0 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 2.77 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 583 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 3540 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Antimony (Sb) | 0.15 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Arsenic (As) | 11.9 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Barium (Ba) | 55.6 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Bismuth (Bi) | 0.096 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Boron (B) | 6.2 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cadmium (Cd) | 0.598 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Calcium (Ca) | 9330 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cesium (Cs) | 0.336 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Chromium (Cr) | 6.6 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cobalt (Co) | 5.28 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Copper (Cu) | 10.9 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Iron (Fe) | 11000 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Lead (Pb) | 10.9 | | 0.20 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Magnesium (Mg) | 1120 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Manganese (Mn) | 275 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Molybdenum (Mo) | 0.694 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Nickel (Ni) | 9.74 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Phosphorus (P) | 440 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Potassium (K) | 349 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Rubidium (Rb) | 3.17 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Selenium (Se) | 0.90 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Sodium (Na) | 61 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Strontium (Sr) | 15.6 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Titanium (Ti) | 67.3 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tungsten (W) | 0.068 | | 0.050 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Uranium (U) | 0.223 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Vanadium (V) | 8.32 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-------|-------|-----------|-----------|----------|
| L1062761-3 GSL-01C Sampled By: CLIENT on 14-SEP-11 @ 10:10 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Zinc (Zn) | 88 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zirconium (Zr) | 2.76 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| L1062761-4 UL1-01A Sampled By: CLIENT on 14-SEP-11 @ 14:25 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.16 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 36.6 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.32 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 36.7 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.126 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 97.3 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 3.29 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 984 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 3.26 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 81.9 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 14.8 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Silt loam | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Note: Results Unreliable. Insufficient soil for analysis. | | | | | | | |
| Metals | | | | | | | |
| Aluminum (Al) | 4250 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Antimony (Sb) | 0.20 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Arsenic (As) | 7.64 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Barium (Ba) | 77.4 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Beryllium (Be) | 0.11 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Bismuth (Bi) | 0.147 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Boron (B) | 6.1 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cadmium (Cd) | 0.841 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Calcium (Ca) | 8700 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cesium (Cs) | 0.320 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Chromium (Cr) | 3.9 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cobalt (Co) | 6.88 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Copper (Cu) | 42.6 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Iron (Fe) | 5170 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Lead (Pb) | 19.6 | | 0.20 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Magnesium (Mg) | 1090 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Manganese (Mn) | 173 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Molybdenum (Mo) | 0.786 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Nickel (Ni) | 10.3 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Phosphorus (P) | 940 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Potassium (K) | 554 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Rubidium (Rb) | 3.99 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Selenium (Se) | 1.28 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Sodium (Na) | 113 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Strontium (Sr) | 18.0 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062761-4 UL1-01A Sampled By: CLIENT on 14-SEP-11 @ 14:25 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Titanium (Ti) | 62.7 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tungsten (W) | 0.132 | | 0.050 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Uranium (U) | 0.442 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Vanadium (V) | 12.5 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zinc (Zn) | 95 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zirconium (Zr) | 0.73 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| L1062761-5 UL1-01B Sampled By: CLIENT on 14-SEP-11 @ 14:30 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.16 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 35.1 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.35 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 35.2 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.164 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 97.7 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 3.28 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 1090 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 3750 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Antimony (Sb) | 0.26 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Arsenic (As) | 10.2 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Barium (Ba) | 83.1 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Bismuth (Bi) | 0.177 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Boron (B) | 6.5 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cadmium (Cd) | 0.860 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Calcium (Ca) | 9060 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cesium (Cs) | 0.336 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Chromium (Cr) | 3.7 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cobalt (Co) | 6.20 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Copper (Cu) | 39.0 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Iron (Fe) | 5990 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Lead (Pb) | 25.3 | | 0.20 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Magnesium (Mg) | 988 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Manganese (Mn) | 183 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Molybdenum (Mo) | 0.679 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Nickel (Ni) | 9.34 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Phosphorus (P) | 990 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Potassium (K) | 499 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Rubidium (Rb) | 4.08 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Selenium (Se) | 1.36 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Silver (Ag) | 0.11 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Sodium (Na) | 102 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Strontium (Sr) | 17.6 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062761-5 UL1-01B Sampled By: CLIENT on 14-SEP-11 @ 14:30 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Titanium (Ti) | 71.2 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tungsten (W) | 0.247 | | 0.050 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Uranium (U) | 0.377 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Vanadium (V) | 11.9 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zinc (Zn) | 104 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zirconium (Zr) | 0.87 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| L1062761-6 UL1-01C Sampled By: CLIENT on 14-SEP-11 @ 14:35 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.15 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 36.0 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.28 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 36.1 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.146 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 97.4 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 3.36 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 1160 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 3930 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 0.31 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 9.28 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 99.5 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.171 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 6.2 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.866 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 10600 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 0.341 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 5.0 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 6.73 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 42.4 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 6230 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 21.4 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 1120 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 232 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.781 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 9.17 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 1030 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 480 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 4.18 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 1.19 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 111 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 19.8 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-------|-------|-----------|-----------|----------|
| L1062761-6 UL1-01C Sampled By: CLIENT on 14-SEP-11 @ 14:35 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 81.7 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.160 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 0.411 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 13.2 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 94 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 1.04 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062761-7 NTL-01A Sampled By: CLIENT on 14-SEP-11 @ 12:10 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.18 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Organic Carbon | 32.0 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| CaCO3 Equivalent | 1.50 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264114 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 32.2 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.166 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 97.6 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 3.11 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264112 |
| Phosphorus, Total | 658 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 0.34 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 86.0 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 13.7 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Silt loam | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Note: Results Unreliable. Insufficient soil for analysis. | | | | | | | |
| Metals | | | | | | | |
| Aluminum (Al) | 3550 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Antimony (Sb) | 0.35 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Arsenic (As) | 11.2 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Barium (Ba) | 87.0 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Beryllium (Be) | 0.12 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Bismuth (Bi) | 0.207 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Boron (B) | 5.0 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cadmium (Cd) | 1.06 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Calcium (Ca) | 7960 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cesium (Cs) | 0.405 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Chromium (Cr) | 5.4 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cobalt (Co) | 5.83 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Copper (Cu) | 18.2 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Iron (Fe) | 5150 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Lead (Pb) | 29.7 | | 0.20 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Magnesium (Mg) | 992 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Manganese (Mn) | 119 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Molybdenum (Mo) | 0.950 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Nickel (Ni) | 9.93 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062761-7 NTL-01A Sampled By: CLIENT on 14-SEP-11 @ 12:10 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Phosphorus (P) | 660 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Potassium (K) | 409 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Rubidium (Rb) | 3.81 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Selenium (Se) | 1.11 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Sodium (Na) | 79 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Strontium (Sr) | 17.0 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tellurium (Te) | 0.16 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Titanium (Ti) | 58.8 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tungsten (W) | 0.103 | | 0.050 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Uranium (U) | 0.245 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Vanadium (V) | 8.01 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zinc (Zn) | 115 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zirconium (Zr) | 1.75 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| L1062761-8 NTL-01B Sampled By: CLIENT on 14-SEP-11 @ 12:30 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.23 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 31.1 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 1.95 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 31.4 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.144 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 97.4 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 3.05 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 682 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 3630 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Antimony (Sb) | 0.33 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Arsenic (As) | 10.5 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Barium (Ba) | 83.5 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Bismuth (Bi) | 0.183 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Boron (B) | 5.1 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cadmium (Cd) | 0.976 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Calcium (Ca) | 7650 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cesium (Cs) | 0.426 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Chromium (Cr) | 5.1 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cobalt (Co) | 5.89 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Copper (Cu) | 17.0 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Iron (Fe) | 5210 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Lead (Pb) | 26.0 | | 0.20 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Magnesium (Mg) | 977 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Manganese (Mn) | 118 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Molybdenum (Mo) | 0.991 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Nickel (Ni) | 9.63 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062761-8 NTL-01B Sampled By: CLIENT on 14-SEP-11 @ 12:30 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Phosphorus (P) | 640 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Potassium (K) | 411 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Rubidium (Rb) | 4.15 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Selenium (Se) | 1.12 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Sodium (Na) | 71 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Strontium (Sr) | 17.7 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tellurium (Te) | 0.15 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Titanium (Ti) | 60.6 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tungsten (W) | 0.106 | | 0.050 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Uranium (U) | 0.253 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Vanadium (V) | 8.31 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zinc (Zn) | 108 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zirconium (Zr) | 1.95 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| L1062761-9 NTL-01C Sampled By: CLIENT on 14-SEP-11 @ 12:35 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.23 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 34.6 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 1.96 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 34.9 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.050 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 93.8 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263672 |
| Total Nitrogen by LECO | 3.05 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 541 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 4620 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Antimony (Sb) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Arsenic (As) | 3.22 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Barium (Ba) | 83.5 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Beryllium (Be) | 0.18 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Bismuth (Bi) | 0.033 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Boron (B) | 5.2 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cadmium (Cd) | 0.491 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Calcium (Ca) | 8600 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cesium (Cs) | 0.410 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Chromium (Cr) | 7.3 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Cobalt (Co) | 6.84 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Copper (Cu) | 14.5 | | 1.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Iron (Fe) | 5430 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Lead (Pb) | 3.23 | | 0.20 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Magnesium (Mg) | 1250 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Manganese (Mn) | 139 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Molybdenum (Mo) | 1.06 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Nickel (Ni) | 9.57 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062761-9 NTL-01C | | | | | | | |
| Sampled By: CLIENT on 14-SEP-11 @ 12:35 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Phosphorus (P) | 500 | | 100 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Potassium (K) | 347 | | 25 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Rubidium (Rb) | 3.59 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Selenium (Se) | 1.22 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Sodium (Na) | 62 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Strontium (Sr) | 20.9 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Titanium (Ti) | 96.8 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Tungsten (W) | <0.050 | | 0.050 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Uranium (U) | 0.365 | | 0.020 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Vanadium (V) | 10.6 | | 0.50 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zinc (Zn) | 132 | | 10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |
| Zirconium (Zr) | 1.56 | | 0.10 | mg/kg | 29-SEP-11 | 01-OCT-11 | R2262196 |

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

Reference Information

Sample Parameter Qualifier Key:

| Qualifier | Description |
|-----------|----------------------------------|
| UMI | Unreliable: Matrix interference. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

| | | | |
|----------------|------|------------------------------|----------------------|
| C-INORG-ORG-SK | Soil | Inorganic and Organic Carbon | SSSA (1996) P455-456 |
|----------------|------|------------------------------|----------------------|

When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.

Reference:

Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|---------------|------|-----------------------------------|------------------------|
| C-TOT-LECO-SK | Soil | Total Carbon by combustion method | SSSA (1996) P. 973-974 |
|---------------|------|-----------------------------------|------------------------|

The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen.

Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen.

This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference:

Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|------------------|------|---------------|----------------------|
| HG-200.2-CVAF-WP | Soil | Mercury Total | EPA 7470A Rev 1,1994 |
|------------------|------|---------------|----------------------|

A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.

| | | | |
|-----------------|------|--------|--------------------------|
| MET-200.2-MS-WP | Soil | Metals | EPA 200.8/200.2 /BCMOE-S |
|-----------------|------|--------|--------------------------|

This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements. Soil samples are dried (<60 °C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.

The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.

| | | | |
|----------|------|------------------|---------------|
| MOIST-SK | Soil | Moisture Content | ASTM D2216-80 |
|----------|------|------------------|---------------|

The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.

Reference: ASTM D2216-80

| | | | |
|---------------|------|-------------------------------------|------------------------|
| N-TOT-LECO-SK | Soil | Total Nitrogen by combustion method | SSSA (1996) p. 973-974 |
|---------------|------|-------------------------------------|------------------------|

The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen.

Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen.

This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|---------------|------|------------------|-----------|
| P-SALM-ICP-SK | Soil | Total Phosphorus | EPA 200.2 |
|---------------|------|------------------|-----------|

This analysis is carried out using procedures from CSR Analytical Method: "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, 26 June 2009, and procedures adapted from EPA Method 200.2. The sample is dried at 40 °C, then ground to < 2 mm particle size using a stainless steel flail grinder. A representative portion is digested with concentrated nitric and hydrochloric acids for 2 hours in an open vessel digester at 95 degrees. Instrumental analysis of the digested extract is by ICP-OES.

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|--|---------------------------------|
| PSA-3-SK | Soil | Particle size - Pipette removal OM & CO3 | Forestry Canada (1991) p. 46-53 |

Dry, < 2 mm soil is treated hydrochloric acid to remove carbonates, then hydrogen peroxide to remove organic matter. The remaining soil is treated with sodium hexametaphosphate to ensure complete dispersion of primary soil particles. The homogenized suspension is allowed to settle in accordance with Stoke's Law so that only clay particles remain in suspension. To determine the clay fraction, an aliquot of the clay suspension is removed, then dried and weighed. The sand fraction is determined by wet sieving the remaining suspension, then drying and weighing the sand retained on the sieve. The silt fraction is determined by calculation where % Silt = 100 - (%Sand+%Clay)

Reference:

Burt, R. (2009). Soil Survey Field and Laboratory Methods Manual. Soil Survey Investigations Report No. 5. Method 3.2.1.2.2. United States Department of Agriculture Natural Resources Conservation Service.

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| SK | ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA |
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|--------|-----------|-------|------|-----------|-----------|
| C-INORG-ORG-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264114 | | | | | | | |
| WG1360093-1 | DUP | L1062760-6 | | | | | | |
| Inorganic Carbon | | 0.12 | 0.12 | | % | 0.71 | 30 | 04-OCT-11 |
| CaCO3 Equivalent | | 1.02 | 1.02 | | % | 0.71 | 25 | 04-OCT-11 |
| WG1360093-2 | IRM | 0.4%IC | | | | | | |
| Inorganic Carbon | | | 0.44 | | % | | 0.28-0.52 | 04-OCT-11 |
| CaCO3 Equivalent | | | 3.68 | | % | | 2.33-4.33 | 04-OCT-11 |
| WG1360093-3 | MB | | | | | | | |
| Inorganic Carbon | | | <0.10 | | % | | 0.1 | 04-OCT-11 |
| CaCO3 Equivalent | | | <0.70 | | % | | 1 | 04-OCT-11 |
| Batch | R2264115 | | | | | | | |
| WG1360095-1 | DUP | L1062764-1 | | | | | | |
| Inorganic Carbon | | 0.13 | 0.10 | | % | 25 | 30 | 04-OCT-11 |
| CaCO3 Equivalent | | 1.08 | 0.85 | | % | 25 | 25 | 04-OCT-11 |
| WG1360095-2 | IRM | 0.4%IC | | | | | | |
| Inorganic Carbon | | | 0.44 | | % | | 0.28-0.52 | 04-OCT-11 |
| CaCO3 Equivalent | | | 3.64 | | % | | 2.33-4.33 | 04-OCT-11 |
| WG1360095-3 | MB | | | | | | | |
| Inorganic Carbon | | | <0.10 | | % | | 0.1 | 04-OCT-11 |
| CaCO3 Equivalent | | | <0.70 | | % | | 1 | 04-OCT-11 |
| C-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264112 | | | | | | | |
| WG1360059-1 | DUP | L1062761-1 | | | | | | |
| Total Carbon by Combustion | | 31.6 | 31.5 | | % | 0.28 | 10 | 03-OCT-11 |
| WG1360059-2 | IRM | 08-109_SOIL | | | | | | |
| Total Carbon by Combustion | | | 1.6 | | % | | 1.1-1.7 | 03-OCT-11 |
| WG1360059-3 | MB | | | | | | | |
| Total Carbon by Combustion | | | <0.1 | | % | | 0.1 | 03-OCT-11 |
| Batch | R2264113 | | | | | | | |
| WG1360061-1 | DUP | L1062764-8 | | | | | | |
| Total Carbon by Combustion | | 8.3 | 8.2 | | % | 0.52 | 10 | 03-OCT-11 |
| WG1360061-2 | IRM | 08-109_SOIL | | | | | | |
| Total Carbon by Combustion | | | 1.6 | | % | | 1.1-1.7 | 03-OCT-11 |
| WG1360061-3 | MB | | | | | | | |
| Total Carbon by Combustion | | | <0.1 | | % | | 0.1 | 03-OCT-11 |
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |



Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| HG-200.2-CVAF-WP | | Soil | | | | | | |
| Batch | R2266580 | | | | | | | |
| WG1364408-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 109 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 101 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-4 | DUP | L1062760-5 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 06-OCT-11 |
| WG1364408-5 | DUP | L1062716-9 | | | | | | |
| Mercury (Hg)-Total | | 0.066 | 0.078 | | mg/kg | 16 | 40 | 06-OCT-11 |
| WG1364408-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 06-OCT-11 |
| Batch | | R2268035 | | | | | | |
| WG1367458-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 107 | | % | | 70-130 | 12-OCT-11 |
| WG1367458-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 97 | | % | | 70-130 | 12-OCT-11 |
| WG1367458-4 | DUP | L1062716-1 | | | | | | |
| Mercury (Hg)-Total | | 0.119 | 0.116 | | mg/kg | 2.8 | 40 | 12-OCT-11 |
| WG1367458-5 | DUP | L1062761-1 | | | | | | |
| Mercury (Hg)-Total | | 0.126 | 0.123 | | mg/kg | 3.0 | 40 | 12-OCT-11 |
| WG1367458-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 12-OCT-11 |
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 113 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 93 | | % | | 70-130 | 29-SEP-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 105 | | % | | 70-130 | 29-SEP-11 |



Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-2 CRM | | NRC PACS-2 | | | | | | |
| Magnesium (Mg) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 89 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Titanium (Ti) | | | 112 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-3 CRM | | NRC MESS-3 | | | | | | |
| Aluminum (Al) | | | 73 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 86 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 106 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 123 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 85 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 98 | | % | | 70-130 | 29-SEP-11 |



Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |
| Silver (Ag) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 87 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 79 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 75 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Aluminum (Al) | | 6440 | 6690 | | mg/kg | 3.8 | 40 | 29-SEP-11 |
| Arsenic (As) | | 7.64 | 7.96 | | mg/kg | 4.1 | 30 | 29-SEP-11 |
| Barium (Ba) | | 60.5 | 65.4 | | mg/kg | 7.8 | 40 | 29-SEP-11 |
| Bismuth (Bi) | | 0.087 | 0.075 | | mg/kg | 15 | 30 | 29-SEP-11 |
| Boron (B) | | 2.8 | 3.4 | | mg/kg | 20 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 4.76 | 4.86 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 3140 | 3540 | | mg/kg | 12 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 0.407 | 0.423 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 11.8 | 13.2 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 117 | 136 | | mg/kg | 16 | 30 | 29-SEP-11 |
| Copper (Cu) | | 427 | 462 | | mg/kg | 8.0 | 30 | 29-SEP-11 |
| Iron (Fe) | | 25800 | 25200 | | mg/kg | 2.3 | 30 | 29-SEP-11 |
| Lead (Pb) | | 10.9 | 9.63 | | mg/kg | 13 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 1760 | 1940 | | mg/kg | 9.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 105 | 126 | | mg/kg | 18 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.764 | 0.848 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 38.4 | 43.2 | | mg/kg | 12 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 510 | 530 | | mg/kg | 3.9 | 30 | 29-SEP-11 |
| Potassium (K) | | 575 | 595 | | mg/kg | 3.4 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 4.56 | 5.53 | | mg/kg | 19 | 30 | 29-SEP-11 |
| Selenium (Se) | | 2.66 | 2.73 | | mg/kg | 2.9 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.14 | 0.15 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Sodium (Na) | | 231 | 282 | | mg/kg | 20 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 9.69 | 12.1 | | mg/kg | 22 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Thallium (Tl) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 187 | 200 | | mg/kg | 6.5 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.090 | 0.084 | | mg/kg | 6.8 | 30 | 29-SEP-11 |
| Uranium (U) | | 0.613 | 0.563 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 17.3 | 19.1 | | mg/kg | 9.9 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 4890 | 5140 | | mg/kg | 5.1 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 2.82 | 3.07 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Aluminum (Al) | | 30500 | 29800 | | mg/kg | 2.1 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 3.19 | 3.15 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.15 | | mg/kg | 3.3 | 30 | 29-SEP-11 |
| Barium (Ba) | | 133 | 130 | | mg/kg | 2.8 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.86 | 0.88 | | mg/kg | 2.8 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.189 | 0.177 | | mg/kg | 6.4 | 30 | 29-SEP-11 |
| Boron (B) | | 14.7 | 15.0 | | mg/kg | 2.1 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.574 | 0.513 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 9960 | 9830 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 2.47 | 2.43 | | mg/kg | 1.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 72.9 | 73.2 | | mg/kg | 0.35 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.9 | 19.3 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Copper (Cu) | | 43.9 | 43.0 | | mg/kg | 2.2 | 30 | 29-SEP-11 |
| Iron (Fe) | | 37500 | 38900 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Lead (Pb) | | 14.9 | 13.6 | | mg/kg | 9.6 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 12800 | 12900 | | mg/kg | 0.32 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 454 | 448 | | mg/kg | 1.4 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.327 | 0.330 | | mg/kg | 1.1 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 45.7 | 44.9 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 500 | 500 | | mg/kg | 1.0 | 30 | 29-SEP-11 |
| Potassium (K) | | 5850 | 5880 | | mg/kg | 0.64 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 67.7 | 66.9 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.54 | 1.43 | | mg/kg | 7.3 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.18 | 0.19 | | mg/kg | 4.7 | 40 | 29-SEP-11 |



Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Sodium (Na) | | 436 | 468 | | mg/kg | 7.0 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 38.3 | 38.7 | | mg/kg | 0.94 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.32 | 0.29 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 1320 | 1330 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 5.2 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.32 | 1.24 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 65.6 | 66.1 | | mg/kg | 0.83 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 670 | 660 | | mg/kg | 1.6 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 24.9 | 26.4 | | mg/kg | 5.6 | 30 | 29-SEP-11 |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Aluminum (Al) | | 21900 | 21200 | | mg/kg | 3.3 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 4.10 | 4.16 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.43 | | mg/kg | 0.32 | 30 | 29-SEP-11 |
| Barium (Ba) | | 111 | 110 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.59 | 0.54 | | mg/kg | 9.6 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.140 | 0.144 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Boron (B) | | 18.9 | 17.5 | | mg/kg | 7.9 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.714 | 0.714 | | mg/kg | 0.020 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 13400 | 13200 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 1.97 | 1.90 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 55.1 | 53.0 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.3 | 18.5 | | mg/kg | 4.0 | 30 | 29-SEP-11 |
| Copper (Cu) | | 41.0 | 40.9 | | mg/kg | 0.23 | 30 | 29-SEP-11 |
| Iron (Fe) | | 28200 | 29200 | | mg/kg | 3.4 | 30 | 29-SEP-11 |
| Lead (Pb) | | 9.92 | 10.5 | | mg/kg | 6.1 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 9610 | 9490 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 701 | 656 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.532 | 0.535 | | mg/kg | 0.44 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 33.0 | 32.7 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 620 | 620 | | mg/kg | 0.48 | 30 | 29-SEP-11 |
| Potassium (K) | | 4260 | 4280 | | mg/kg | 0.47 | 40 | 29-SEP-11 |



Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Rubidium (Rb) | | 51.8 | 48.3 | | mg/kg | 7.1 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.88 | 1.90 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.15 | 0.16 | | mg/kg | 7.2 | 40 | 29-SEP-11 |
| Sodium (Na) | | 351 | 354 | | mg/kg | 0.81 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 45.8 | 42.9 | | mg/kg | 6.7 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.23 | 0.24 | | mg/kg | 4.7 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 955 | 979 | | mg/kg | 2.6 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.112 | 0.125 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.31 | 1.33 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 48.8 | 48.5 | | mg/kg | 0.73 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 405 | 413 | | mg/kg | 2.0 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 20.1 | 20.1 | | mg/kg | 0.13 | 30 | 29-SEP-11 |
| WG1359420-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 29-SEP-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |



Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 29-SEP-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Batch | R2262196 | | | | | | | |
| WG1359926-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Antimony (Sb) | | | 116 | | % | | 70-130 | 30-SEP-11 |
| Arsenic (As) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Barium (Ba) | | | 84 | | % | | 70-130 | 30-SEP-11 |
| Beryllium (Be) | | | 85 | | % | | 70-130 | 30-SEP-11 |
| Boron (B) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Cadmium (Cd) | | | 103 | | % | | 70-130 | 30-SEP-11 |
| Calcium (Ca) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Chromium (Cr) | | | 95 | | % | | 70-130 | 30-SEP-11 |
| Cobalt (Co) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Copper (Cu) | | | 104 | | % | | 70-130 | 30-SEP-11 |
| Iron (Fe) | | | 96 | | % | | 70-130 | 30-SEP-11 |
| Lead (Pb) | | | 96 | | % | | 70-130 | 30-SEP-11 |
| Magnesium (Mg) | | | 90 | | % | | 70-130 | 30-SEP-11 |
| Manganese (Mn) | | | 94 | | % | | 70-130 | 30-SEP-11 |



Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-2 | CRM | NRC PACS-2 | | | | | | |
| Molybdenum (Mo) | | | 104 | | % | | 70-130 | 30-SEP-11 |
| Nickel (Ni) | | | 90 | | % | | 70-130 | 30-SEP-11 |
| Phosphorus (P) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Potassium (K) | | | 86 | | % | | 70-130 | 30-SEP-11 |
| Selenium (Se) | | | 98 | | % | | 70-130 | 30-SEP-11 |
| Silver (Ag) | | | 114 | | % | | 70-130 | 30-SEP-11 |
| Sodium (Na) | | | 86 | | % | | 70-130 | 30-SEP-11 |
| Strontium (Sr) | | | 103 | | % | | 70-130 | 30-SEP-11 |
| Thallium (Tl) | | | 91 | | % | | 70-130 | 30-SEP-11 |
| Tin (Sn) | | | 105 | | % | | 70-130 | 30-SEP-11 |
| Titanium (Ti) | | | 103 | | % | | 70-130 | 30-SEP-11 |
| Uranium (U) | | | 85 | | % | | 70-130 | 30-SEP-11 |
| Vanadium (V) | | | 100 | | % | | 70-130 | 30-SEP-11 |
| Zinc (Zn) | | | 93 | | % | | 70-130 | 30-SEP-11 |
| WG1359926-3 | CRM | NRC MESS-3 | | | | | | |
| Antimony (Sb) | | | 92 | | % | | 70-130 | 30-SEP-11 |
| Arsenic (As) | | | 94 | | % | | 70-130 | 30-SEP-11 |
| Barium (Ba) | | | 96 | | % | | 70-130 | 30-SEP-11 |
| Beryllium (Be) | | | 75 | | % | | 70-130 | 30-SEP-11 |
| Cadmium (Cd) | | | 88 | | % | | 70-130 | 30-SEP-11 |
| Calcium (Ca) | | | 106 | | % | | 70-130 | 30-SEP-11 |
| Chromium (Cr) | | | 81 | | % | | 70-130 | 30-SEP-11 |
| Cobalt (Co) | | | 98 | | % | | 70-130 | 30-SEP-11 |
| Copper (Cu) | | | 100 | | % | | 70-130 | 30-SEP-11 |
| Iron (Fe) | | | 96 | | % | | 70-130 | 30-SEP-11 |
| Lead (Pb) | | | 89 | | % | | 70-130 | 30-SEP-11 |
| Magnesium (Mg) | | | 88 | | % | | 70-130 | 30-SEP-11 |
| Manganese (Mn) | | | 104 | | % | | 70-130 | 30-SEP-11 |
| Molybdenum (Mo) | | | 100 | | % | | 70-130 | 30-SEP-11 |
| Nickel (Ni) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Phosphorus (P) | | | 88 | | % | | 70-130 | 30-SEP-11 |
| Potassium (K) | | | 75 | | % | | 70-130 | 30-SEP-11 |
| Selenium (Se) | | | 118 | | % | | 70-130 | 30-SEP-11 |
| Silver (Ag) | | | 108 | | % | | 70-130 | 30-SEP-11 |



Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-3 | CRM | NRC MESS-3 | | | | | | |
| Sodium (Na) | | | 99 | | % | | 70-130 | 30-SEP-11 |
| Strontium (Sr) | | | 97 | | % | | 70-130 | 30-SEP-11 |
| Tin (Sn) | | | 109 | | % | | 70-130 | 30-SEP-11 |
| Uranium (U) | | | 86 | | % | | 70-130 | 30-SEP-11 |
| Vanadium (V) | | | 74 | | % | | 70-130 | 30-SEP-11 |
| Zinc (Zn) | | | 98 | | % | | 70-130 | 30-SEP-11 |
| WG1359926-5 | DUP | WG1359926-4 | | | | | | |
| Aluminum (Al) | | 4610 | 4150 | | mg/kg | 10 | 40 | 30-SEP-11 |
| Antimony (Sb) | | 0.36 | 0.35 | | mg/kg | 0.93 | 30 | 30-SEP-11 |
| Arsenic (As) | | 15.4 | 13.5 | | mg/kg | 13 | 30 | 30-SEP-11 |
| Barium (Ba) | | 55.8 | 52.9 | | mg/kg | 5.4 | 40 | 30-SEP-11 |
| Beryllium (Be) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Bismuth (Bi) | | 0.120 | 0.112 | | mg/kg | 6.9 | 30 | 30-SEP-11 |
| Boron (B) | | 4.5 | 3.7 | | mg/kg | 19 | 30 | 30-SEP-11 |
| Cadmium (Cd) | | 7.99 | 7.73 | | mg/kg | 3.4 | 30 | 30-SEP-11 |
| Calcium (Ca) | | 2930 | 2740 | | mg/kg | 6.8 | 30 | 30-SEP-11 |
| Cesium (Cs) | | 0.337 | 0.292 | | mg/kg | 14 | 30 | 30-SEP-11 |
| Chromium (Cr) | | 8.8 | 7.9 | | mg/kg | 11 | 30 | 30-SEP-11 |
| Cobalt (Co) | | 134 | 124 | | mg/kg | 8.3 | 30 | 30-SEP-11 |
| Copper (Cu) | | 640 | 636 | | mg/kg | 0.62 | 30 | 30-SEP-11 |
| Iron (Fe) | | 46100 | 45700 | | mg/kg | 0.91 | 30 | 30-SEP-11 |
| Lead (Pb) | | 18.5 | 17.4 | | mg/kg | 6.5 | 40 | 30-SEP-11 |
| Magnesium (Mg) | | 1340 | 1220 | | mg/kg | 9.1 | 30 | 30-SEP-11 |
| Manganese (Mn) | | 114 | 104 | | mg/kg | 9.1 | 30 | 30-SEP-11 |
| Molybdenum (Mo) | | 0.804 | 0.830 | | mg/kg | 3.3 | 40 | 30-SEP-11 |
| Nickel (Ni) | | 36.4 | 33.5 | | mg/kg | 8.3 | 30 | 30-SEP-11 |
| Phosphorus (P) | | 510 | 460 | | mg/kg | 10 | 30 | 30-SEP-11 |
| Potassium (K) | | 483 | 406 | | mg/kg | 17 | 40 | 30-SEP-11 |
| Rubidium (Rb) | | 4.09 | 3.66 | | mg/kg | 11 | 30 | 30-SEP-11 |
| Selenium (Se) | | 3.09 | 2.64 | | mg/kg | 16 | 30 | 30-SEP-11 |
| Silver (Ag) | | 0.22 | 0.20 | | mg/kg | 12 | 40 | 30-SEP-11 |
| Sodium (Na) | | 210 | 209 | | mg/kg | 0.46 | 40 | 30-SEP-11 |
| Strontium (Sr) | | 10.1 | 10.1 | | mg/kg | 0.39 | 40 | 30-SEP-11 |



Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-5 | DUP | WG1359926-4 | | | | | | |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Thallium (Tl) | | 0.11 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 30-SEP-11 |
| Titanium (Ti) | | 167 | 138 | | mg/kg | 19 | 40 | 30-SEP-11 |
| Tungsten (W) | | 0.117 | 0.120 | | mg/kg | 2.4 | 30 | 30-SEP-11 |
| Uranium (U) | | 0.595 | 0.568 | | mg/kg | 4.7 | 30 | 30-SEP-11 |
| Vanadium (V) | | 15.0 | 13.6 | | mg/kg | 10 | 30 | 30-SEP-11 |
| Zinc (Zn) | | 9060 | 8750 | | mg/kg | 3.6 | 30 | 30-SEP-11 |
| Zirconium (Zr) | | 1.77 | 1.66 | | mg/kg | 6.1 | 30 | 30-SEP-11 |
| WG1359926-7 | DUP | WG1359926-6 | | | | | | |
| Aluminum (Al) | | 4040 | 3980 | | mg/kg | 1.4 | 40 | 30-SEP-11 |
| Antimony (Sb) | | 0.16 | 0.17 | | mg/kg | 8.9 | 30 | 30-SEP-11 |
| Arsenic (As) | | 19.8 | 18.9 | | mg/kg | 4.6 | 30 | 30-SEP-11 |
| Barium (Ba) | | 60.9 | 61.6 | | mg/kg | 1.2 | 40 | 30-SEP-11 |
| Beryllium (Be) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Bismuth (Bi) | | 0.113 | 0.093 | | mg/kg | 19 | 30 | 30-SEP-11 |
| Boron (B) | | 8.3 | 8.4 | | mg/kg | 1.6 | 30 | 30-SEP-11 |
| Cadmium (Cd) | | 0.656 | 0.609 | | mg/kg | 7.4 | 30 | 30-SEP-11 |
| Calcium (Ca) | | 10100 | 10400 | | mg/kg | 3.4 | 30 | 30-SEP-11 |
| Cesium (Cs) | | 0.364 | 0.336 | | mg/kg | 7.9 | 30 | 30-SEP-11 |
| Chromium (Cr) | | 13.2 | 11.7 | | mg/kg | 12 | 30 | 30-SEP-11 |
| Cobalt (Co) | | 6.71 | 6.28 | | mg/kg | 6.6 | 30 | 30-SEP-11 |
| Copper (Cu) | | 16.3 | 16.3 | | mg/kg | 0.16 | 30 | 30-SEP-11 |
| Iron (Fe) | | 19100 | 18200 | | mg/kg | 4.8 | 30 | 30-SEP-11 |
| Lead (Pb) | | 10.3 | 9.93 | | mg/kg | 3.2 | 40 | 30-SEP-11 |
| Magnesium (Mg) | | 1370 | 1360 | | mg/kg | 0.98 | 30 | 30-SEP-11 |
| Manganese (Mn) | | 325 | 321 | | mg/kg | 1.3 | 30 | 30-SEP-11 |
| Molybdenum (Mo) | | 0.953 | 0.936 | | mg/kg | 1.8 | 40 | 30-SEP-11 |
| Nickel (Ni) | | 14.3 | 13.2 | | mg/kg | 8.4 | 30 | 30-SEP-11 |
| Phosphorus (P) | | 710 | 700 | | mg/kg | 1.4 | 30 | 30-SEP-11 |
| Potassium (K) | | 466 | 441 | | mg/kg | 5.7 | 40 | 30-SEP-11 |
| Rubidium (Rb) | | 3.36 | 3.40 | | mg/kg | 1.3 | 30 | 30-SEP-11 |
| Selenium (Se) | | 0.95 | 0.93 | | mg/kg | 2.7 | 30 | 30-SEP-11 |



Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-7 | DUP | WG1359926-6 | | | | | | |
| Silver (Ag) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 40 | 30-SEP-11 |
| Sodium (Na) | | 85 | 82 | | mg/kg | 2.8 | 40 | 30-SEP-11 |
| Strontium (Sr) | | 17.8 | 16.6 | | mg/kg | 7.0 | 40 | 30-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Thallium (Tl) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 30-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 30-SEP-11 |
| Titanium (Ti) | | 78.0 | 83.4 | | mg/kg | 6.7 | 40 | 30-SEP-11 |
| Tungsten (W) | | 0.136 | 0.125 | | mg/kg | 8.3 | 30 | 30-SEP-11 |
| Uranium (U) | | 0.278 | 0.273 | | mg/kg | 1.9 | 30 | 30-SEP-11 |
| Vanadium (V) | | 9.96 | 9.50 | | mg/kg | 4.8 | 30 | 30-SEP-11 |
| Zinc (Zn) | | 117 | 113 | | mg/kg | 3.2 | 30 | 30-SEP-11 |
| Zirconium (Zr) | | 3.16 | 2.95 | | mg/kg | 7.0 | 30 | 30-SEP-11 |
| WG1359926-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 30-SEP-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 30-SEP-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 30-SEP-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 30-SEP-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 30-SEP-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 30-SEP-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 30-SEP-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 30-SEP-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 30-SEP-11 |



Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|--------|-------------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262196 | | | | | | | |
| WG1359926-1 | MB | | | | | | | |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 30-SEP-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 30-SEP-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 30-SEP-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 30-SEP-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 30-SEP-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 30-SEP-11 |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 30-SEP-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 30-SEP-11 |
| MOIST-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263672 | | | | | | | |
| WG1360345-1 | DUP | L1062732-9 | | | | | | |
| % Moisture | | 97.1 | 97.1 | | % | 0.0064 | 25 | 05-OCT-11 |
| N-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264112 | | | | | | | |
| WG1360059-1 | DUP | L1062761-1 | | | | | | |
| Total Nitrogen by LECO | | 2.92 | 2.91 | J | % | 0.013 | 0.05 | 03-OCT-11 |
| WG1360059-2 | IRM | 08-109_SOIL | | | | | | |
| Total Nitrogen by LECO | | | 0.118 | | % | | 0.085-0.135 | 03-OCT-11 |
| WG1360059-3 | MB | | | | | | | |
| Total Nitrogen by LECO | | | <0.020 | | % | | 0.02 | 03-OCT-11 |
| Batch | R2264113 | | | | | | | |
| WG1360061-1 | DUP | L1062764-8 | | | | | | |
| Total Nitrogen by LECO | | 0.813 | 0.793 | J | % | 0.020 | 0.05 | 03-OCT-11 |
| WG1360061-2 | IRM | 08-109_SOIL | | | | | | |
| Total Nitrogen by LECO | | | 0.118 | | % | | 0.085-0.135 | 03-OCT-11 |
| WG1360061-3 | MB | | | | | | | |
| Total Nitrogen by LECO | | | <0.020 | | % | | 0.02 | 03-OCT-11 |



Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|------|----------|-----------|
| P-SALM-ICP-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263655 | | | | | | | |
| WG1359965-2 CRM | | SS-1_SOIL | | | | | | |
| Phosphorus, Total | | | 1100 | | mg/kg | | 750-1530 | 04-OCT-11 |
| WG1359965-3 DUP | | L1062761-6 | | | | | | |
| Phosphorus, Total | | 1160 | 1140 | | mg/kg | 1.5 | 30 | 04-OCT-11 |
| WG1359965-5 DUP | | L1062767-9 | | | | | | |
| Phosphorus, Total | | 520 | 535 | | mg/kg | 2.8 | 30 | 04-OCT-11 |
| WG1359965-1 MB | | | | | | | | |
| Phosphorus, Total | | | <50 | | mg/kg | | 50 | 04-OCT-11 |
| PSA-3-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264462 | | | | | | | |
| WG1360043-1 DUP | | L1062763-4 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | 25.7 | 25.4 | J | % | 0.22 | 10 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | 31.9 | 30.1 | J | % | 1.81 | 10 | 05-OCT-11 |
| % Clay (<2um) | | 42.4 | 44.5 | J | % | 2.03 | 10 | 05-OCT-11 |
| WG1360043-2 IRM | | FARM2009 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | | 49.9 | | % | | 45-55 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | | 33.4 | | % | | 29-39 | 05-OCT-11 |
| % Clay (<2um) | | | 16.7 | | % | | 10-20 | 05-OCT-11 |

Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

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Contact: Clifton Samoiloff

Legend:

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

Sample Parameter Qualifier Definitions:

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

Quality Control Report

Workorder: L1062761

Report Date: 13-OCT-11

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

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Moisture Content | | | | | | | |
| | 1 | 14-SEP-11 09:36 | 05-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 2 | 14-SEP-11 10:05 | 05-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 3 | 14-SEP-11 10:10 | 05-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 4 | 14-SEP-11 14:25 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 5 | 14-SEP-11 14:30 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 6 | 14-SEP-11 14:35 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 7 | 14-SEP-11 12:10 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 8 | 14-SEP-11 12:30 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 9 | 14-SEP-11 12:35 | 05-OCT-11 00:00 | 14 | 20 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| | 1 | 14-SEP-11 09:36 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 2 | 14-SEP-11 10:05 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 3 | 14-SEP-11 10:10 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 4 | 14-SEP-11 14:25 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 5 | 14-SEP-11 14:30 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 6 | 14-SEP-11 14:35 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 7 | 14-SEP-11 12:10 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 8 | 14-SEP-11 12:30 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 9 | 14-SEP-11 12:35 | 04-OCT-11 00:00 | 14 | 19 | 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 L1062761 were received on 23-SEP-11 15:00.

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.

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



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

mat / Distribution
 Other
 PDF
 Excel
 Digital
 Fax
 Email 1: cliff.samoiloff@aecom.com
 Email 2: shawna.kiartanson@aecom.com
 Email 3: mark.hadfield@aecom.com

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

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

| Sample # | Sample Identification (This description will appear on the report) | Date (dd-mm-yy) | Time (hh:mm) | Sample Type | Number of Containers | | | | | | | |
|----------|---|--------------------|-----------------|-------------|----------------------|----------|---------------|---------------|-----------------|------------------|----------------|--------------------------------|
| | | | | | C-TOT-ORG-SK | MOIST-SK | N-TOT-LECO-SK | P-SALM-ICP-SK | MET-200.2-MS-WP | HG-200.2-CVAF-WP | PREP-DRY/GRIND | PSA-1 (Or 3 if 1 not possible) |
| | GSL-01A | 14-Sep-11 | 9:36 | Sediment | X | X | X | X | X | X | X | 2 |
| | GSL-01B | 14-Sep-11 | 10:05 | Sediment | X | X | X | X | X | X | X | 1 |
| | GSL-01C | 14-Sep-11 | 10:10 | Sediment | X | X | X | X | X | X | X | 1 |
| | UL1-01A | 14-Sep-11 | 14:25 | Sediment | X | X | X | X | X | X | X | 2 |
| | UL1-01B | 14-Sep-11 | 14:30 | Sediment | X | X | X | X | X | X | X | 1 |
| | UL1-01C | 14-Sep-11 | 14:35 | Sediment | X | X | X | X | X | X | X | 1 |
| | NTL-01A | 14-Sep-11 | 12:10 | Sediment | X | X | X | X | X | X | X | 2 |
| | NTL-01B | 14-Sep-11 | 12:30 | Sediment | X | X | X | X | X | X | X | 1 |
| | NTL-01C | 14-Sep-11 | 12:35 | Sediment | X | X | X | X | X | X | X | 1 |

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

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)
 Released by: *[Signature]* Date (dd-mm-yy): 23-Sep-11 Time (hh-mm): 10:02
 Received by: *[Signature]* Date: 15-00 Time: 23-Sep-11 Temperature: 20.6 °C

SHIPMENT RECEIPT (ALS use only)
 Verified by: _____ Date: _____
 Time: _____

SHIPMENT VERIFICATION (ALS use only)
 Observations: _____
 Yes / No ?
 if Yes add SIF

GENF 18.01 Front



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

Date Received: 23-SEP-11
Report Date: 02-MAR-12 14:10 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062762
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------------|------------|------|-------|-----------|-----------|----------|
| L1062762-1 TED-01A Sampled By: CLIENT on 13-SEP-11 @ 10:32 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-MAR-12 | 02-MAR-12 | R2332508 |
| L1062762-2 GHC-01A Sampled By: CLIENT on 13-SEP-11 @ 15:59 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-MAR-12 | 02-MAR-12 | R2332508 |
| L1062762-3 THC-01A Sampled By: CLIENT on 13-SEP-11 @ 14:29 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-MAR-12 | 02-MAR-12 | R2332508 |
| L1062762-4 ANB-01A Sampled By: CLIENT on 15-SEP-11 @ 14:16 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-MAR-12 | 02-MAR-12 | R2332508 |
| L1062762-5 ANB-02A Sampled By: CLIENT on 15-SEP-11 @ 15:02 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-MAR-12 | 02-MAR-12 | R2332508 |
| L1062762-6 ANB-03A Sampled By: CLIENT on 17-SEP-11 @ 10:16 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-MAR-12 | 02-MAR-12 | R2332508 |
| L1062762-7 UC1-01A Sampled By: CLIENT on 13-SEP-11 @ 12:49 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-MAR-12 | 02-MAR-12 | R2332508 |
| L1062762-8 ARL-01A Sampled By: CLIENT on 15-SEP-11 @ 09:58 Matrix: SEDIMENT Miscellaneous Parameters Benthic Invertebrates Note: Entire sample sorted | See attached | | 0 | | 02-MAR-12 | 02-MAR-12 | R2332508 |
| | | | | | | | |

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

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|-----------------------|------------------------|
| BENTHOS-WP | Soil | Benthic Invertebrates | STANDARD METHODS 10500 |

The benthic macroinvertebrates method is a procedure for identifying those organisms inhabiting the substrates of freshwater lakes and rivers. The organisms contained in large samples must be sorted to varying degrees in the laboratory before identification is performed. Samples are sorted and identified using compound and stereoscopic microscopes. Benthic organisms are identified to species where possible, enumerated and reported.

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|--|
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1062762

Report Date: 02-MAR-12

Page 1 of 2

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|
|------|--------|-----------|--------|-----------|-------|-----|-------|----------|

Quality Control Report

Workorder: L1062762

Report Date: 02-MAR-12

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

Page 2 of 2

Contact: Clifton Samoiloff

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

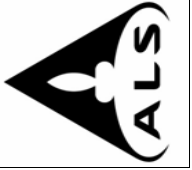
Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

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

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

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



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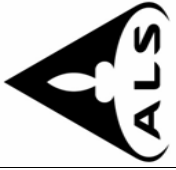
Benthic Sample Results

Lab Number: **L1062762-1** Work Order: **L1062762**

Date Sampled September 13, 2011 Submitter AECOM
Source: 60213483 WQ Site #: TED-01A

Sample Type SEDIMENT
Station No

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|-------------|------------------|------------------|----------------------|-------------------|-------|-------|------|-------|
| ARACHNOIDEA | TROMBIDIFORMES | | <i>unidentified</i> | | 0 | 1 | 0 | 1 |
| ARACHNOIDEA | TROMBIDIFORMES | ARRENURIDAE | <i>Arrenurus</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |
| CRUSTACEA | AMPHIPODA | HYALELLIDAE | <i>Hyalella</i> | <i>azteca</i> | 0 | 0 | 0 | 1 |
| CRUSTACEA | COPEPODA | CYCLOPOIDA | | | 0 | 0 | 0 | 6 |
| CRUSTACEA | OSTRACODA | | | | 0 | 0 | 0 | 43 |
| GASTROPODA | BASOMMATOPHOR | PLANORBIDAE | <i>Helisoma</i> | <i>anceps</i> | 0 | 0 | 0 | 1 |
| GASTROPODA | BASOMMATOPHOR | PLANORBIIDAE | <i>Gyraulus</i> | <i>sp.</i> | 0 | 0 | 0 | 29 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 59 | 0 | 0 | 59 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 43 | 0 | 0 | 43 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Orthocladinae</i> | | 22 | 0 | 0 | 22 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Pentaneurini</i> | | 19 | 0 | 0 | 19 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 111 | 0 | 0 | 111 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Tanypodini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Tanytarsini</i> | | 101 | 0 | 0 | 101 |
| INSECTA | DIPTERA | EPHYDRIDAE | <i>Hydrellia</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | TABANIDAE | <i>Chrysops</i> | <i>sp.</i> | 2 | 0 | 0 | 2 |
| INSECTA | EPHEMEROPTERA | CAENIDAE | <i>Caenis</i> | <i>sp.</i> | 37 | 0 | 0 | 37 |
| INSECTA | HEMIPTERA | CORIXIDAE | <i>Sigara</i> | <i>sp.</i> | 0 | 1 | 0 | 1 |
| INSECTA | ODONATA - ZYGOP | COENAGRIONIDAE | <i>Ischnura</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| INSECTA | ODONATA - ANISOP | CORDULIIDAE | <i>Cordulia</i> | <i>shurtleffi</i> | 2 | 0 | 0 | 2 |
| INSECTA | TRICHOPTERA | POLYCENTROPODIDA | <i>damaged</i> | | 1 | 0 | 0 | 1 |



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Benthic Sample Results

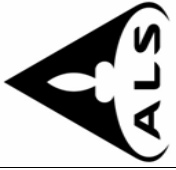
Lab Number: L1062762-1 **Work Order:** L1062762

Date Sampled: September 13, 2011
Source: 60213483

Submitter: AECOM
WQ Site #: TED-01A

Sample Type: SEDIMENT
Station No:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|------------|-----------|-----------------|---------------------|------------------------|-------|-------|------|-------|
| PELECYPODA | VENEROIDA | PISIIDAE | <i>Pisidium</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |
| PELECYPODA | VENEROIDA | PISIIDAE | <i>Sphaerium</i> | <i>simile</i> | 0 | 0 | 0 | 6 |
| PELECYPODA | VENEROIDA | PISIIDAE | <i>unidentified</i> | <i>Too young to ID</i> | 0 | 0 | 0 | 8 |



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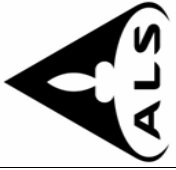
Benthic Sample Results

Lab Number: L1062762-2 **Work Order:** L1062762

Date Sampled: September 13, 2011 **Submitter:** AECOM
Source: 60213483 **WQ Site #:** GHC-01A

Sample Type: SEDIMENT **Station No:**
Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|------------|-------------|-----------------|---------------------------|--------------------|-------|-------|------|-------|
| CRUSTACEA | COPEPODA | CYCLOPOIDA | | | 0 | 0 | 0 | 2 |
| CRUSTACEA | OSTRACODA | | | | 0 | 0 | 0 | 1 |
| GASTROPODA | | | <i>unidentified</i> | <i>damaged</i> | 0 | 0 | 0 | 1 |
| INSECTA | COLLEMBOLA | ISOTOMIDAE | <i>Isotomurus</i> | <i>tricolor</i> | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 28 | 0 | 0 | 28 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Pentaneurini</i> | | 2 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 34 | 0 | 0 | 34 |
| INSECTA | HYMENOPTERA | | <i>unidentified adult</i> | <i>terrestrial</i> | 0 | 1 | 0 | 1 |



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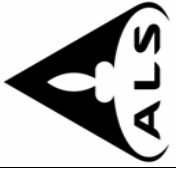
Benthic Sample Results

Lab Number: L1062762-3 **Work Order:** L1062762

Date Sampled: September 13, 2011 **Submitter:** AECOM
Source: 60213483 **WQ Site #:** THC-01A

Sample Type: SEDIMENT **Station No:**
Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|-------------|---------------|-----------------|----------------------------|------------------------|-------|-------|------|-------|
| ARACHNOIDEA | ARANEAE | | <i>unidentified spider</i> | | 0 | 0 | 0 | 1 |
| GASTROPODA | BASOMMATOPHOR | PHYSIDAE | <i>Physa</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |
| GASTROPODA | PROSOBRANCHIA | VALVATIDAE | <i>Valvata</i> | <i>sincera</i> | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 8 | 0 | 0 | 8 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Pentaneurini</i> | | 5 | 0 | 0 | 5 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 18 | 0 | 0 | 18 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Tanytarsini</i> | | 2 | 0 | 0 | 2 |
| PELECYPODA | VENEROIDA | PISIIDAE | <i>unidentified</i> | <i>Too young to ID</i> | 0 | 0 | 0 | 2 |



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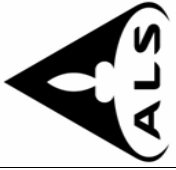
Benthic Sample Results

Lab Number: L1062762-4 **Work Order:** L1062762

Date Sampled: September 15, 2011 **Submitter:** AECOM
Source: 60213483 **WQ Site #:** ANB-01A

Sample Type: SEDIMENT **Station No:**
Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|------------|----------------|-----------------|----------------------|------------------------|-------|-------|------|-------|
| CRUSTACEA | AMPHIPODA | HYALELLIDAE | <i>Hyalella</i> | <i>azteca</i> | 0 | 0 | 0 | 3 |
| CRUSTACEA | CLADOCERA | | | | 0 | 0 | 0 | 2 |
| CRUSTACEA | COPEPODA | CYCLOPOIDA | | | 0 | 0 | 0 | 2 |
| CRUSTACEA | OSTRACODA | | | | 0 | 0 | 0 | 3 |
| GASTROPODA | | | <i>unidentified</i> | <i>damaged</i> | 0 | 0 | 0 | 3 |
| GASTROPODA | BASOMMATOPHOR | PHYSIDAE | <i>Physa</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |
| GASTROPODA | BASOMMATOPHOR | PLANORBIIDAE | <i>Promenetus</i> | <i>exacuous</i> | 0 | 0 | 0 | 1 |
| GASTROPODA | NEOTAENIOGLOSS | HYDROBIIDAE | <i>Annicola</i> | <i>sp.</i> | 0 | 0 | 0 | 9 |
| GASTROPODA | NEOTAENIOGLOSS | HYDROBIIDAE | <i>Cincinnatia</i> | <i>cincinnatiensis</i> | 0 | 0 | 0 | 3 |
| GASTROPODA | PROSOBRANCHIA | VALVATIDAE | <i>Valvata</i> | <i>tricarinata</i> | 0 | 0 | 0 | 6 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 36 | 0 | 0 | 36 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Orthocladinae</i> | | 4 | 0 | 0 | 4 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Pentaneurini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | EPHEMEROPTERA | CAENIDAE | <i>Caenis</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| INSECTA | LEPIDOPTERA | | <i>unidentified</i> | | 1 | 0 | 0 | 1 |
| INSECTA | TRICHOPTERA | LEPTOCERIDAE | <i>Triaenodes</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| INSECTA | TRICHOPTERA | PHRYGANEIDAE | <i>Agrypnia</i> | <i>sp.</i> | 2 | 0 | 0 | 2 |
| PELECYPODA | VENEROIDA | PISIIDAE | <i>unidentified</i> | <i>Too young to ID</i> | 0 | 0 | 0 | 1 |



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Benthic Sample Results

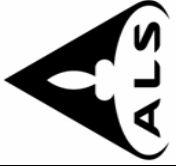
Lab Number: **L1062762-5** Work Order: **L1062762**

Date Sampled September 15, 2011 Submitter AECOM
Source: 60213483 WQ Site #: ANB-02A

Sample Type SEDIMENT
Station No

Sample ID

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|-------------|----------------|-----------------|---------------------|------------------------|-------|-------|------|-------|
| ANNELIDA | OLIGOCHAETA | NAIDIDAE | <i>Stylaria</i> | <i>lacustris</i> | 0 | 0 | 0 | 1 |
| ARACHNOIDEA | TROMBIDIFORMES | HYGROBATIDAE | <i>Megapus</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |
| CRUSTACEA | AMPHIPODA | HYALELLIDAE | <i>Hyalella</i> | <i>azteca</i> | 0 | 0 | 0 | 2 |
| CRUSTACEA | COPEPODA | CYCLOPOIDA | | | 0 | 0 | 0 | 2 |
| CRUSTACEA | COPEPODA | HARPACTICOIDA | | | 0 | 0 | 0 | 21 |
| GASTROPODA | BASOMMATOPHOR | PLANORBIIDAE | <i>Gyraulus</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |
| GASTROPODA | NEOTAENIOGLOSS | HYDROBIIDAE | <i>Cincinnatia</i> | <i>cincinnatiensis</i> | 0 | 0 | 0 | 28 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 2 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 16 | 0 | 0 | 16 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Pentaneurini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | ODONATA-ANISOP | CORDULIIDAE | <i>Cordulia</i> | <i>shurtleffi</i> | 1 | 0 | 0 | 1 |



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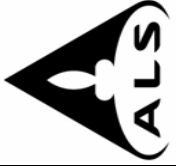
Benthic Sample Results

Lab Number: L1062762-6 **Work Order:** L1062762

Date Sampled: September 17, 2011 **Submitter:** AECOM
Source: 60213483 **WQ Site #:** ANB-03A

Sample Type: SEDIMENT **Station No:**
Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|------------|----------------|-----------------|---------------------|------------------------|-------|-------|------|-------|
| ANNELIDA | HIRUDINEA | GLOSSIPHONIIDAE | <i>Helobdella</i> | <i>stagnalis</i> | 0 | 0 | 0 | 2 |
| CRUSTACEA | AMPHIPODA | HYALELLIDAE | <i>Hyalella</i> | <i>azteca</i> | 0 | 0 | 0 | 9 |
| CRUSTACEA | CLADOCERA | | | | 0 | 0 | 0 | 1 |
| CRUSTACEA | COPEPODA | CYCLOPOIDA | | | 0 | 0 | 0 | 3 |
| CRUSTACEA | COPEPODA | HARPACTICOIDA | | | 0 | 0 | 0 | 25 |
| GASTROPODA | NEOTAENIOGLOSS | HYDROBIIDAE | <i>Amnicola</i> | <i>sp.</i> | 0 | 0 | 0 | 1 |
| GASTROPODA | NEOTAENIOGLOSS | HYDROBIIDAE | <i>Cincinnatia</i> | <i>cincinnatiensis</i> | 0 | 0 | 0 | 1 |
| GASTROPODA | NEOTAENIOGLOSS | HYDROBIIDAE | <i>unidentified</i> | <i>too young to ID</i> | 0 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 5 | 0 | 0 | 5 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 4 | 0 | 0 | 4 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 1 | 0 | 0 | 1 |
| NEMATODA | | | <i>unidentified</i> | | 0 | 0 | 0 | 11 |
| PELECYPODA | VENEROIDA | PISIIDAE | <i>unidentified</i> | <i>Too young to ID</i> | 0 | 0 | 0 | 4 |



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Winnipeg, Manitoba R2J 3T4
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Benthic Sample Results

Lab Number: **L1062762-7** Work Order: **L1062762**

Date Sampled September 13, 2011

Source: 60213483

Submitter AECOM

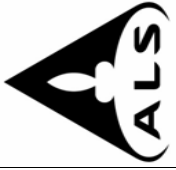
WQ Site #: UCI-01A

Sample Type SEDIMENT

Station No

Sample ID

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|------------|-------------|-----------------|----------------------|------------------------|-------|-------|------|-------|
| CRUSTACEA | CLADOCERA | | | | 0 | 0 | 0 | 39 |
| CRUSTACEA | COPEPODA | CYCLOPOIDA | | | 0 | 0 | 0 | 6 |
| CRUSTACEA | OSTRACODA | | | | 0 | 0 | 0 | 2 |
| INSECTA | COLEOPTERA | DYTISCIDAE | <i>Laccophilus</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| INSECTA | COLLEMBOLA | ISOTOMIDAE | <i>Isotomurus</i> | <i>tricolor</i> | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 28 | 0 | 0 | 28 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Orthocladinae</i> | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 1 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Tanytarsini</i> | | 2 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CULICIDAE | <i>Culex</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| INSECTA | TRICHOPTERA | PHRYGANEIDAE | <i>Prilostomis</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| NEMATODA | | | <i>unidentified</i> | | 0 | 0 | 0 | 5 |
| PELECYPODA | VENEROIDA | PISIIDAE | <i>unidentified</i> | <i>Too young to ID</i> | 0 | 0 | 0 | 17 |



ALS Laboratory Group
 Manitoba Technology Centre
 12-1329 Niakwa Road E
 Winnipeg, Manitoba R2J 3T4
 (204) 255-9720

Benthic Sample Results

Lab Number: L1062762-8 **Work Order:** L1062762

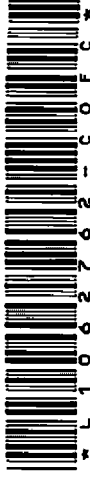
Date Sampled: September 15, 2011 **Submitter:** AECOM
Source: 60213483 **WQ Site #:** ARL-01A

Sample Type: SEDIMENT
Station No:

Sample ID:

| Class | Order | Family/Suborder | Genus | Species | Larva | Adult | Pupa | Total |
|-------------|---------------|-----------------|----------------------------|------------------------|-------|-------|------|-------|
| ARACHNOIDEA | ARANEAE | | <i>unidentified spider</i> | | 0 | 0 | 0 | 1 |
| INSECTA | DIPTERA | CERATOPOGONIDAE | | | 2 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CHAOBORIDAE | <i>Chaoborus</i> | <i>sp.</i> | 3 | 0 | 0 | 3 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Chironomini</i> | | 11 | 0 | 0 | 11 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Orthocladinae</i> | | 2 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Pentaneurini</i> | | 4 | 0 | 0 | 4 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Procladini</i> | | 2 | 0 | 0 | 2 |
| INSECTA | DIPTERA | CHIRONOMIDAE | <i>Tanytarsini</i> | | 4 | 0 | 0 | 4 |
| INSECTA | DIPTERA | DIXIDAE | <i>Dixella</i> | <i>sp.</i> | 1 | 0 | 0 | 1 |
| INSECTA | EPHEMEROPTERA | CAENIDAE | <i>Caenis</i> | <i>sp.</i> | 8 | 0 | 0 | 8 |
| PELECYPODA | VENEROIDA | PISIIDAE | <i>unidentified</i> | <i>Too young to ID</i> | 0 | 0 | 0 | 2 |

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



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

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

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

| Sample # | Sample Identification (This description will appear on the report) | Date (dd-mm-yy) | Time (hh:mm) | Sample Type | Number of Containers |
|----------|---|--------------------|-----------------|-------------|----------------------|
| | TED-01A | 13-Sep-11 | 10:32 | Sediment | 3 |
| | GHC-01A | 13-Sep-11 | 15:59 | Sediment | 1 |
| | THC-01A | 13-Sep-11 | 14:29 | Sediment | 1 |
| | ANB-01A | 15-Sep-11 | 14:16 | Sediment | 1 |
| | ANB-02A | 15-Sep-11 | 15:02 | Sediment | 1 |
| | ANB-03A | 17-Sep-11 | 10:16 | Sediment | 1 |
| | UC1-01A | 13-Sep-11 | 12:49 | Sediment | 2 |
| | ARL-01A | 15-Sep-11 | 9:58 | Sediment | 2 |

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

SHIPMENT RECEIPTION (lab use only)

Released by: *[Signature]* Date: 23-Sep-11 Time: 09:41
 Received by: *[Signature]* Date: 23-Sep-11 Time: 15:00
 Temperature: 20.8 °C
 Verified by: _____ Date: _____
 Observations: Yes / No? If Yes add SIF

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.



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

Date Received: 23-SEP-11
Report Date: 13-OCT-11 13:34 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062763
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-------|-------|-----------|-----------|----------|
| L1062763-1 TED-01A | | | | | | | |
| Sampled By: CLIENT on 13-SEP-11 @ 10:32 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.35 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 34.9 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 2.89 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 35.2 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 91.5 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 1.78 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 458 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 27.8 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 66.7 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 5.45 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Silt loam | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Metals | | | | | | | |
| Aluminum (Al) | 2810 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 0.12 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 3.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 55.8 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.027 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 9.0 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.192 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 16600 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 0.228 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 5.5 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 2.03 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 12.6 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 7700 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 2.73 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 2050 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 217 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.585 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 4.68 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 340 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 513 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 3.87 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 0.63 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 157 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 36.3 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 130 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.131 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 0.431 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 8.91 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 46 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062763-1 TED-01A Sampled By: CLIENT on 13-SEP-11 @ 10:32 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 4.59 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062763-2 TED-01B Sampled By: CLIENT on 13-SEP-11 @ 09:42 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.26 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 41.8 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 2.20 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 42.1 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.056 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 90.6 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 2.12 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 468 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 2050 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.13 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 2.87 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 52.8 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.031 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 8.5 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.229 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 18100 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 0.128 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 4.1 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 1.42 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 12.0 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 3770 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 3.17 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 1950 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 138 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.638 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 4.19 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 350 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 233 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 1.63 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 1.02 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 138 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 41.3 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 68.4 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | <0.050 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 0.323 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 5.57 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 80 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062763-2 TED-01B Sampled By: CLIENT on 13-SEP-11 @ 09:42 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 1.64 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062763-3 TED-01C Sampled By: CLIENT on 13-SEP-11 @ 09:29 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.30 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 37.9 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 2.53 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 38.2 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.067 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 91.4 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 2.37 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 494 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 2180 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 4.11 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 53.0 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.049 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 22.0 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.342 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 17700 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 0.155 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 4.4 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 2.25 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 12.4 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 6930 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 5.70 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 2150 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 110 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.707 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 5.18 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 410 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 320 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 1.71 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 0.97 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 211 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 46.0 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 67.3 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.055 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 0.296 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 6.05 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 74 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062763-3 TED-01C Sampled By: CLIENT on 13-SEP-11 @ 09:29 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 1.99 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062763-4 UC1-01A Sampled By: CLIENT on 13-SEP-11 @ 12:49 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.12 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 5.35 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 0.98 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 5.5 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.071 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 80.4 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 0.317 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 524 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 25.7 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 31.9 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 42.4 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Clay | | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Metals | | | | | | | |
| Aluminum (Al) | 19300 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 0.11 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 5.87 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 138 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.47 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.112 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 11.5 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.327 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 15800 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 1.67 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 46.1 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 9.31 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 33.6 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 24500 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 7.59 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 7560 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 724 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.442 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 26.7 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 560 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 3230 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 44.3 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 0.60 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.14 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 238 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 31.9 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.21 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|--------|------------|-------|-------|-----------|-----------|----------|
| L1062763-4 UC1-01A | | | | | | | |
| Sampled By: CLIENT on 13-SEP-11 @ 12:49 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 891 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.110 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 2.84 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 44.7 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 246 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 15.0 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062763-5 UC1-01B | | | | | | | |
| Sampled By: CLIENT on 13-SEP-11 @ 12:34 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.17 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 15.2 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 1.43 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 15.3 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.098 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 83.2 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 0.865 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 883 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 18400 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.16 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 26.1 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 181 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.57 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.148 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 15.3 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.559 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 16300 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 1.70 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 45.3 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 18.8 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 38.1 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 40600 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 10.7 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 8020 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 1700 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.343 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 29.5 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 1030 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 3570 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 37.5 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 0.79 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.13 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 277 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 32.2 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.25 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|--------|------------|-------|-------|-----------|-----------|----------|
| L1062763-5 UC1-01B | | | | | | | |
| Sampled By: CLIENT on 13-SEP-11 @ 12:34 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 853 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.188 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 2.26 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 54.6 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 1190 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 12.0 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062763-6 UC1-01C | | | | | | | |
| Sampled By: CLIENT on 13-SEP-11 @ 12:19 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.17 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 18.0 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 1.45 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 18.2 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.067 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 99.9 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 0.993 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 615 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 17100 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.12 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 6.38 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 129 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.61 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.126 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 13.4 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.344 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 16000 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 1.53 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 50.5 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 9.01 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 33.5 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 21400 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 7.94 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 7580 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 685 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.612 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 28.8 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 630 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 3270 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 36.3 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 0.55 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.12 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 249 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 29.9 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.21 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------------|------------|-------|-------|-----------|-----------|----------|
| L1062763-6 UC1-01C Sampled By: CLIENT on 13-SEP-11 @ 12:19 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 810 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.138 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 3.07 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 40.0 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 265 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 13.9 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062763-7 THC-01A Sampled By: CLIENT on 13-SEP-11 @ 14:29 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.30 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 21.2 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 2.47 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 21.5 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 89.0 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 1.20 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 796 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 10.9 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 58.9 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 30.2 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Silty clay loam | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Metals | | | | | | | |
| Aluminum (Al) | 15300 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.21 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 21.2 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 142 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.50 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.108 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 15.0 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.344 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 12900 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 1.44 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 52.8 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 9.23 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 36.4 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 20400 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 7.83 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 8510 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 257 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 1.26 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 32.6 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 710 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 4030 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 33.0 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | <0.50 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.15 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|--------|------------|-------|-------|-----------|-----------|----------|
| L1062763-7 THC-01A | | | | | | | |
| Sampled By: CLIENT on 13-SEP-11 @ 14:29 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Sodium (Na) | 382 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 39.1 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.23 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 987 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.243 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.63 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 51.0 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 175 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 14.1 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062763-8 THC-01B | | | | | | | |
| Sampled By: CLIENT on 13-SEP-11 @ 14:35 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.33 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 35.6 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 2.75 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 35.9 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.084 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 94.7 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 1.85 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 753 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 6550 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.20 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 39.0 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 75.1 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.18 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.073 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 9.4 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.379 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 13800 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 0.608 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 15.8 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 4.64 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 26.9 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 10100 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 6.64 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 3330 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 210 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 1.25 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 12.3 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 730 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 1370 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 11.1 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 0.68 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.11 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|--------|------------|-------|-------|-----------|-----------|----------|
| L1062763-8 THC-01B | | | | | | | |
| Sampled By: CLIENT on 13-SEP-11 @ 14:35 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Sodium (Na) | 141 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 42.5 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 299 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.075 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.13 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 21.2 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 153 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 5.51 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062763-9 THC-01C | | | | | | | |
| Sampled By: CLIENT on 13-SEP-11 @ 15:05 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.25 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 27.6 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 2.07 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 27.8 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 93.8 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 1.36 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 768 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 8420 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 6.41 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 106 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.33 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.073 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 7.4 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.174 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 15400 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 0.714 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 24.5 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 4.62 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 18.0 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 10600 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 4.87 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 3850 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 182 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.602 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 16.0 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 620 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 2150 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 14.7 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | <0.50 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062763-9 THC-01C | | | | | | | |
| Sampled By: CLIENT on 13-SEP-11 @ 15:05 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Sodium (Na) | 309 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 45.8 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 336 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.066 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.46 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 22.3 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 63 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 7.61 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

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

Reference Information

Sample Parameter Qualifier Key:

| Qualifier | Description |
|-----------|----------------------------------|
| UMI | Unreliable: Matrix interference. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

| | | | |
|----------------|------|------------------------------|----------------------|
| C-INORG-ORG-SK | Soil | Inorganic and Organic Carbon | SSSA (1996) P455-456 |
|----------------|------|------------------------------|----------------------|

When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.

Reference:

Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|---------------|------|-----------------------------------|------------------------|
| C-TOT-LECO-SK | Soil | Total Carbon by combustion method | SSSA (1996) P. 973-974 |
|---------------|------|-----------------------------------|------------------------|

The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen.

Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen.

This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference:

Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|------------------|------|---------------|----------------------|
| HG-200.2-CVAF-WP | Soil | Mercury Total | EPA 7470A Rev 1,1994 |
|------------------|------|---------------|----------------------|

A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.

| | | | |
|-----------------|------|--------|--------------------------|
| MET-200.2-MS-WP | Soil | Metals | EPA 200.8/200.2 /BCMOE-S |
|-----------------|------|--------|--------------------------|

This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements. Soil samples are dried (<60 °C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.

The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.

| | | | |
|----------|------|------------------|---------------|
| MOIST-SK | Soil | Moisture Content | ASTM D2216-80 |
|----------|------|------------------|---------------|

The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.

Reference: ASTM D2216-80

| | | | |
|---------------|------|-------------------------------------|------------------------|
| N-TOT-LECO-SK | Soil | Total Nitrogen by combustion method | SSSA (1996) p. 973-974 |
|---------------|------|-------------------------------------|------------------------|

The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen.

Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen.

This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|---------------|------|------------------|-----------|
| P-SALM-ICP-SK | Soil | Total Phosphorus | EPA 200.2 |
|---------------|------|------------------|-----------|

This analysis is carried out using procedures from CSR Analytical Method: "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, 26 June 2009, and procedures adapted from EPA Method 200.2. The sample is dried at 40 °C, then ground to < 2 mm particle size using a stainless steel flail grinder. A representative portion is digested with concentrated nitric and hydrochloric acids for 2 hours in an open vessel digester at 95 degrees. Instrumental analysis of the digested extract is by ICP-OES.

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|--|---------------------------------|
| PSA-3-SK | Soil | Particle size - Pipette removal OM & CO3 | Forestry Canada (1991) p. 46-53 |

Dry, < 2 mm soil is treated hydrochloric acid to remove carbonates, then hydrogen peroxide to remove organic matter. The remaining soil is treated with sodium hexametaphosphate to ensure complete dispersion of primary soil particles. The homogenized suspension is allowed to settle in accordance with Stoke's Law so that only clay particles remain in suspension. To determine the clay fraction, an aliquot of the clay suspension is removed, then dried and weighed. The sand fraction is determined by wet sieving the remaining suspension, then drying and weighing the sand retained on the sieve. The silt fraction is determined by calculation where % Silt = 100 - (%Sand+%Clay)

Reference:

Burt, R. (2009). Soil Survey Field and Laboratory Methods Manual. Soil Survey Investigations Report No. 5. Method 3.2.1.2.2. United States Department of Agriculture Natural Resources Conservation Service.

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| SK | ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA |
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|--------|-----------|-------|------|-----------|-----------|
| C-INORG-ORG-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264115 | | | | | | | |
| WG1360095-1 | DUP | L1062764-1 | | | | | | |
| Inorganic Carbon | | 0.13 | 0.10 | | % | 25 | 30 | 04-OCT-11 |
| CaCO3 Equivalent | | 1.08 | 0.85 | | % | 25 | 25 | 04-OCT-11 |
| WG1360095-2 | IRM | 0.4%IC | | | | | | |
| Inorganic Carbon | | | 0.44 | | % | | 0.28-0.52 | 04-OCT-11 |
| CaCO3 Equivalent | | | 3.64 | | % | | 2.33-4.33 | 04-OCT-11 |
| WG1360095-3 | MB | | | | | | | |
| Inorganic Carbon | | | <0.10 | | % | | 0.1 | 04-OCT-11 |
| CaCO3 Equivalent | | | <0.70 | | % | | 1 | 04-OCT-11 |
| C-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264113 | | | | | | | |
| WG1360061-1 | DUP | L1062764-8 | | | | | | |
| Total Carbon by Combustion | | 8.3 | 8.2 | | % | 0.52 | 10 | 03-OCT-11 |
| WG1360061-2 | IRM | 08-109_SOIL | | | | | | |
| Total Carbon by Combustion | | | 1.6 | | % | | 1.1-1.7 | 03-OCT-11 |
| WG1360061-3 | MB | | | | | | | |
| Total Carbon by Combustion | | | <0.1 | | % | | 0.1 | 03-OCT-11 |
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2266580 | | | | | | | |
| WG1364408-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 109 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 101 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-4 | DUP | L1062760-5 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 06-OCT-11 |
| WG1364408-5 | DUP | L1062716-9 | | | | | | |
| Mercury (Hg)-Total | | 0.066 | 0.078 | | mg/kg | 16 | 40 | 06-OCT-11 |
| WG1364408-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 06-OCT-11 |
| Batch | R2268035 | | | | | | | |
| WG1367486-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 112 | | % | | 70-130 | 12-OCT-11 |
| WG1367486-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 87 | | % | | 70-130 | 12-OCT-11 |
| WG1367486-4 | DUP | L1062769-1 | | | | | | |
| Mercury (Hg)-Total | | 0.057 | 0.057 | | mg/kg | 0.53 | 40 | 12-OCT-11 |
| WG1367486-5 | DUP | L1062770-3 | | | | | | |



Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2268035 | | | | | | | |
| WG1367486-5 | DUP | L1062770-3 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 12-OCT-11 |
| WG1367486-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 12-OCT-11 |
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 113 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 93 | | % | | 70-130 | 29-SEP-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 105 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 89 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Titanium (Ti) | | | 112 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |



Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |
| Aluminum (Al) | | | 73 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 86 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 106 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 123 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 85 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 87 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 79 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 75 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Aluminum (Al) | | 6440 | 6690 | | mg/kg | 3.8 | 40 | 29-SEP-11 |
| Arsenic (As) | | 7.64 | 7.96 | | mg/kg | 4.1 | 30 | 29-SEP-11 |
| Barium (Ba) | | 60.5 | 65.4 | | mg/kg | 7.8 | 40 | 29-SEP-11 |
| Bismuth (Bi) | | 0.087 | 0.075 | | mg/kg | 15 | 30 | 29-SEP-11 |
| Boron (B) | | 2.8 | 3.4 | | mg/kg | 20 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 4.76 | 4.86 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 3140 | 3540 | | mg/kg | 12 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Cesium (Cs) | | 0.407 | 0.423 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 11.8 | 13.2 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 117 | 136 | | mg/kg | 16 | 30 | 29-SEP-11 |
| Copper (Cu) | | 427 | 462 | | mg/kg | 8.0 | 30 | 29-SEP-11 |
| Iron (Fe) | | 25800 | 25200 | | mg/kg | 2.3 | 30 | 29-SEP-11 |
| Lead (Pb) | | 10.9 | 9.63 | | mg/kg | 13 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 1760 | 1940 | | mg/kg | 9.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 105 | 126 | | mg/kg | 18 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.764 | 0.848 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 38.4 | 43.2 | | mg/kg | 12 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 510 | 530 | | mg/kg | 3.9 | 30 | 29-SEP-11 |
| Potassium (K) | | 575 | 595 | | mg/kg | 3.4 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 4.56 | 5.53 | | mg/kg | 19 | 30 | 29-SEP-11 |
| Selenium (Se) | | 2.66 | 2.73 | | mg/kg | 2.9 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.14 | 0.15 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Sodium (Na) | | 231 | 282 | | mg/kg | 20 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 9.69 | 12.1 | | mg/kg | 22 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 187 | 200 | | mg/kg | 6.5 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.090 | 0.084 | | mg/kg | 6.8 | 30 | 29-SEP-11 |
| Uranium (U) | | 0.613 | 0.563 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 17.3 | 19.1 | | mg/kg | 9.9 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 4890 | 5140 | | mg/kg | 5.1 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 2.82 | 3.07 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Aluminum (Al) | | 30500 | 29800 | | mg/kg | 2.1 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 3.19 | 3.15 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.15 | | mg/kg | 3.3 | 30 | 29-SEP-11 |
| Barium (Ba) | | 133 | 130 | | mg/kg | 2.8 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.86 | 0.88 | | mg/kg | 2.8 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.189 | 0.177 | | mg/kg | 6.4 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Boron (B) | | 14.7 | 15.0 | | mg/kg | 2.1 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.574 | 0.513 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 9960 | 9830 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 2.47 | 2.43 | | mg/kg | 1.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 72.9 | 73.2 | | mg/kg | 0.35 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.9 | 19.3 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Copper (Cu) | | 43.9 | 43.0 | | mg/kg | 2.2 | 30 | 29-SEP-11 |
| Iron (Fe) | | 37500 | 38900 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Lead (Pb) | | 14.9 | 13.6 | | mg/kg | 9.6 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 12800 | 12900 | | mg/kg | 0.32 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 454 | 448 | | mg/kg | 1.4 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.327 | 0.330 | | mg/kg | 1.1 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 45.7 | 44.9 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 500 | 500 | | mg/kg | 1.0 | 30 | 29-SEP-11 |
| Potassium (K) | | 5850 | 5880 | | mg/kg | 0.64 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 67.7 | 66.9 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.54 | 1.43 | | mg/kg | 7.3 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.18 | 0.19 | | mg/kg | 4.7 | 40 | 29-SEP-11 |
| Sodium (Na) | | 436 | 468 | | mg/kg | 7.0 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 38.3 | 38.7 | | mg/kg | 0.94 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.32 | 0.29 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 1320 | 1330 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 5.2 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.32 | 1.24 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 65.6 | 66.1 | | mg/kg | 0.83 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 670 | 660 | | mg/kg | 1.6 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 24.9 | 26.4 | | mg/kg | 5.6 | 30 | 29-SEP-11 |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Aluminum (Al) | | 21900 | 21200 | | mg/kg | 3.3 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 4.10 | 4.16 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.43 | | mg/kg | 0.32 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Barium (Ba) | | 111 | 110 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.59 | 0.54 | | mg/kg | 9.6 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.140 | 0.144 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Boron (B) | | 18.9 | 17.5 | | mg/kg | 7.9 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.714 | 0.714 | | mg/kg | 0.020 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 13400 | 13200 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 1.97 | 1.90 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 55.1 | 53.0 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.3 | 18.5 | | mg/kg | 4.0 | 30 | 29-SEP-11 |
| Copper (Cu) | | 41.0 | 40.9 | | mg/kg | 0.23 | 30 | 29-SEP-11 |
| Iron (Fe) | | 28200 | 29200 | | mg/kg | 3.4 | 30 | 29-SEP-11 |
| Lead (Pb) | | 9.92 | 10.5 | | mg/kg | 6.1 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 9610 | 9490 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 701 | 656 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.532 | 0.535 | | mg/kg | 0.44 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 33.0 | 32.7 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 620 | 620 | | mg/kg | 0.48 | 30 | 29-SEP-11 |
| Potassium (K) | | 4260 | 4280 | | mg/kg | 0.47 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 51.8 | 48.3 | | mg/kg | 7.1 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.88 | 1.90 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.15 | 0.16 | | mg/kg | 7.2 | 40 | 29-SEP-11 |
| Sodium (Na) | | 351 | 354 | | mg/kg | 0.81 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 45.8 | 42.9 | | mg/kg | 6.7 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.23 | 0.24 | | mg/kg | 4.7 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 955 | 979 | | mg/kg | 2.6 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.112 | 0.125 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.31 | 1.33 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 48.8 | 48.5 | | mg/kg | 0.73 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 405 | 413 | | mg/kg | 2.0 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 20.1 | 20.1 | | mg/kg | 0.13 | 30 | 29-SEP-11 |
| WG1359420-1 | MB | | | | | | | |



Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 29-SEP-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 29-SEP-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |



Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Batch | R2262894 | | | | | | | |
| WG1361496-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Antimony (Sb) | | | 119 | | % | | 70-130 | 03-OCT-11 |
| Arsenic (As) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Barium (Ba) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Beryllium (Be) | | | 80 | | % | | 70-130 | 03-OCT-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Cadmium (Cd) | | | 94 | | % | | 70-130 | 03-OCT-11 |
| Calcium (Ca) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Chromium (Cr) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Cobalt (Co) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Copper (Cu) | | | 100 | | % | | 70-130 | 03-OCT-11 |
| Iron (Fe) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Lead (Pb) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| Magnesium (Mg) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Manganese (Mn) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Molybdenum (Mo) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Nickel (Ni) | | | 94 | | % | | 70-130 | 03-OCT-11 |
| Phosphorus (P) | | | 87 | | % | | 70-130 | 03-OCT-11 |
| Potassium (K) | | | 82 | | % | | 70-130 | 03-OCT-11 |
| Silver (Ag) | | | 97 | | % | | 70-130 | 03-OCT-11 |
| Sodium (Na) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Strontium (Sr) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| Thallium (Tl) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Tin (Sn) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Titanium (Ti) | | | 102 | | % | | 70-130 | 03-OCT-11 |
| Uranium (U) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Vanadium (V) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Zinc (Zn) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| WG1361496-3 | CRM | NRC MESS-3 | | | | | | |
| Antimony (Sb) | | | 93 | | % | | 70-130 | 03-OCT-11 |



Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-3 | CRM | NRC MESS-3 | | | | | | |
| Arsenic (As) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Barium (Ba) | | | 103 | | % | | 70-130 | 03-OCT-11 |
| Beryllium (Be) | | | 72 | | % | | 70-130 | 03-OCT-11 |
| Cadmium (Cd) | | | 83 | | % | | 70-130 | 03-OCT-11 |
| Calcium (Ca) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Chromium (Cr) | | | 78 | | % | | 70-130 | 03-OCT-11 |
| Cobalt (Co) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Copper (Cu) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Iron (Fe) | | | 103 | | % | | 70-130 | 03-OCT-11 |
| Lead (Pb) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Magnesium (Mg) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Manganese (Mn) | | | 111 | | % | | 70-130 | 03-OCT-11 |
| Molybdenum (Mo) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Nickel (Ni) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Phosphorus (P) | | | 81 | | % | | 70-130 | 03-OCT-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 03-OCT-11 |
| Selenium (Se) | | | 118 | | % | | 70-130 | 03-OCT-11 |
| Silver (Ag) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Sodium (Na) | | | 101 | | % | | 70-130 | 03-OCT-11 |
| Strontium (Sr) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Tin (Sn) | | | 73 | | % | | 70-130 | 03-OCT-11 |
| Uranium (U) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Vanadium (V) | | | 74 | | % | | 70-130 | 03-OCT-11 |
| Zinc (Zn) | | | 95 | | % | | 70-130 | 03-OCT-11 |
| WG1361496-5 | DUP | WG1361496-4 | | | | | | |
| Aluminum (Al) | | 19900 | 17700 | | mg/kg | 12 | 40 | 03-OCT-11 |
| Antimony (Sb) | | 0.15 | 0.16 | | mg/kg | 4.1 | 30 | 03-OCT-11 |
| Arsenic (As) | | 14.8 | 14.0 | | mg/kg | 5.6 | 30 | 03-OCT-11 |
| Barium (Ba) | | 175 | 166 | | mg/kg | 5.3 | 40 | 03-OCT-11 |
| Beryllium (Be) | | 0.47 | 0.55 | | mg/kg | 16 | 30 | 03-OCT-11 |
| Bismuth (Bi) | | 0.097 | 0.102 | | mg/kg | 4.5 | 30 | 03-OCT-11 |
| Boron (B) | | 22.8 | 18.7 | | mg/kg | 19 | 30 | 03-OCT-11 |
| Cadmium (Cd) | | 1.30 | 1.22 | | mg/kg | 6.0 | 30 | 03-OCT-11 |



Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-5 | DUP | WG1361496-4 | | | | | | |
| Calcium (Ca) | | 11700 | 10400 | | mg/kg | 12 | 30 | 03-OCT-11 |
| Cesium (Cs) | | 1.46 | 1.30 | | mg/kg | 12 | 30 | 03-OCT-11 |
| Chromium (Cr) | | 82.9 | 77.4 | | mg/kg | 6.9 | 30 | 03-OCT-11 |
| Cobalt (Co) | | 158 | 150 | | mg/kg | 5.5 | 30 | 03-OCT-11 |
| Copper (Cu) | | 271 | 263 | | mg/kg | 3.1 | 30 | 03-OCT-11 |
| Iron (Fe) | | 29800 | 28100 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Lead (Pb) | | 6.94 | 6.65 | | mg/kg | 4.3 | 40 | 03-OCT-11 |
| Magnesium (Mg) | | 7780 | 7350 | | mg/kg | 5.6 | 30 | 03-OCT-11 |
| Manganese (Mn) | | 3540 | 3320 | | mg/kg | 6.2 | 30 | 03-OCT-11 |
| Molybdenum (Mo) | | 0.722 | 0.786 | | mg/kg | 8.6 | 40 | 03-OCT-11 |
| Nickel (Ni) | | 59.0 | 55.6 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Phosphorus (P) | | 570 | 510 | | mg/kg | 9.7 | 30 | 03-OCT-11 |
| Potassium (K) | | 3490 | 2930 | | mg/kg | 17 | 40 | 03-OCT-11 |
| Rubidium (Rb) | | 34.6 | 31.3 | | mg/kg | 9.9 | 30 | 03-OCT-11 |
| Selenium (Se) | | 0.95 | 0.85 | | mg/kg | 11 | 30 | 03-OCT-11 |
| Silver (Ag) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Sodium (Na) | | 248 | 211 | | mg/kg | 16 | 40 | 03-OCT-11 |
| Strontium (Sr) | | 40.1 | 36.7 | | mg/kg | 8.9 | 40 | 03-OCT-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 03-OCT-11 |
| Thallium (Tl) | | 0.18 | 0.16 | | mg/kg | 7.3 | 30 | 03-OCT-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Titanium (Ti) | | 790 | 681 | | mg/kg | 15 | 40 | 03-OCT-11 |
| Tungsten (W) | | 0.149 | 0.153 | | mg/kg | 2.2 | 30 | 03-OCT-11 |
| Uranium (U) | | 1.51 | 1.39 | | mg/kg | 8.1 | 30 | 03-OCT-11 |
| Vanadium (V) | | 41.9 | 36.7 | | mg/kg | 13 | 30 | 03-OCT-11 |
| Zinc (Zn) | | 1080 | 1040 | | mg/kg | 3.7 | 30 | 03-OCT-11 |
| Zirconium (Zr) | | 6.34 | 6.73 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| WG1361496-7 | DUP | WG1361496-6 | | | | | | |
| Aluminum (Al) | | 22900 | 23100 | | mg/kg | 1.2 | 40 | 03-OCT-11 |
| Antimony (Sb) | | 2.52 | 2.67 | | mg/kg | 5.8 | 30 | 03-OCT-11 |
| Arsenic (As) | | 14.4 | 14.8 | | mg/kg | 2.4 | 30 | 03-OCT-11 |
| Barium (Ba) | | 121 | 124 | | mg/kg | 2.4 | 40 | 03-OCT-11 |
| Beryllium (Be) | | 0.79 | 0.73 | | mg/kg | 8.5 | 30 | 03-OCT-11 |



Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-7 | DUP | WG1361496-6 | | | | | | |
| Bismuth (Bi) | | 0.215 | 0.214 | | mg/kg | 0.36 | 30 | 03-OCT-11 |
| Boron (B) | | 16.8 | 14.2 | | mg/kg | 17 | 30 | 03-OCT-11 |
| Cadmium (Cd) | | 0.918 | 0.908 | | mg/kg | 1.1 | 30 | 03-OCT-11 |
| Calcium (Ca) | | 10500 | 10100 | | mg/kg | 4.0 | 30 | 03-OCT-11 |
| Cesium (Cs) | | 2.40 | 2.36 | | mg/kg | 1.8 | 30 | 03-OCT-11 |
| Chromium (Cr) | | 56.9 | 53.5 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Cobalt (Co) | | 17.3 | 16.6 | | mg/kg | 4.2 | 30 | 03-OCT-11 |
| Copper (Cu) | | 44.9 | 44.7 | | mg/kg | 0.25 | 30 | 03-OCT-11 |
| Iron (Fe) | | 32300 | 33600 | | mg/kg | 3.7 | 30 | 03-OCT-11 |
| Lead (Pb) | | 14.3 | 14.5 | | mg/kg | 1.9 | 40 | 03-OCT-11 |
| Magnesium (Mg) | | 9900 | 9240 | | mg/kg | 6.8 | 30 | 03-OCT-11 |
| Manganese (Mn) | | 522 | 499 | | mg/kg | 4.4 | 30 | 03-OCT-11 |
| Molybdenum (Mo) | | 0.468 | 0.477 | | mg/kg | 2.0 | 40 | 03-OCT-11 |
| Nickel (Ni) | | 37.2 | 35.4 | | mg/kg | 4.8 | 30 | 03-OCT-11 |
| Phosphorus (P) | | 700 | 630 | | mg/kg | 11 | 30 | 03-OCT-11 |
| Potassium (K) | | 4800 | 4260 | | mg/kg | 12 | 40 | 03-OCT-11 |
| Rubidium (Rb) | | 50.2 | 48.9 | | mg/kg | 2.5 | 30 | 03-OCT-11 |
| Selenium (Se) | | 1.90 | 1.79 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Silver (Ag) | | 0.17 | 0.19 | | mg/kg | 7.1 | 40 | 03-OCT-11 |
| Sodium (Na) | | 376 | 313 | | mg/kg | 19 | 40 | 03-OCT-11 |
| Strontium (Sr) | | 34.8 | 33.9 | | mg/kg | 2.4 | 40 | 03-OCT-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 03-OCT-11 |
| Thallium (Tl) | | 0.31 | 0.31 | | mg/kg | 0.73 | 30 | 03-OCT-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Titanium (Ti) | | 1070 | 1070 | | mg/kg | 0.28 | 40 | 03-OCT-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 4.9 | 30 | 03-OCT-11 |
| Uranium (U) | | 1.24 | 1.25 | | mg/kg | 0.57 | 30 | 03-OCT-11 |
| Vanadium (V) | | 47.3 | 44.5 | | mg/kg | 6.1 | 30 | 03-OCT-11 |
| Zinc (Zn) | | 439 | 437 | | mg/kg | 0.34 | 30 | 03-OCT-11 |
| Zirconium (Zr) | | 19.0 | 19.6 | | mg/kg | 3.2 | 30 | 03-OCT-11 |
| WG1361496-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 03-OCT-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |



Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-1 | MB | | | | | | | |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 03-OCT-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 03-OCT-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 03-OCT-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 03-OCT-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 03-OCT-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 03-OCT-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 03-OCT-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |



Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------------|-----------|
| MOIST-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264138 | | | | | | | |
| WG1360346-1 | DUP | L1062763-1 | | | | | | |
| % Moisture | | 91.5 | 83.5 | | % | 9.2 | 25 | 05-OCT-11 |
| N-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264113 | | | | | | | |
| WG1360061-1 | DUP | L1062764-8 | | | | | | |
| Total Nitrogen by LECO | | 0.813 | 0.793 | J | % | 0.020 | 0.05 | 03-OCT-11 |
| WG1360061-2 | IRM | 08-109_SOIL | | | | | | |
| Total Nitrogen by LECO | | | 0.118 | | % | | 0.085-0.135 | 03-OCT-11 |
| WG1360061-3 | MB | | | | | | | |
| Total Nitrogen by LECO | | | <0.020 | | % | | 0.02 | 03-OCT-11 |
| P-SALM-ICP-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263935 | | | | | | | |
| WG1359961-2 | CRM | SS-1_SOIL | | | | | | |
| Phosphorus, Total | | | 1080 | | mg/kg | | 750-1530 | 04-OCT-11 |
| WG1359961-4 | DUP | L1062760-6 | | | | | | |
| Phosphorus, Total | | 426 | 441 | | mg/kg | 3.5 | 30 | 04-OCT-11 |
| WG1359961-5 | DUP | L1062732-6 | | | | | | |
| Phosphorus, Total | | 668 | 652 | | mg/kg | 2.5 | 30 | 04-OCT-11 |
| WG1359961-1 | MB | | | | | | | |
| Phosphorus, Total | | | <50 | | mg/kg | | 50 | 04-OCT-11 |
| PSA-3-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264462 | | | | | | | |
| WG1360043-1 | DUP | L1062763-4 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | 25.7 | 25.4 | J | % | 0.22 | 10 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | 31.9 | 30.1 | J | % | 1.81 | 10 | 05-OCT-11 |
| % Clay (<2um) | | 42.4 | 44.5 | J | % | 2.03 | 10 | 05-OCT-11 |
| WG1360043-2 | IRM | FARM2009 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | | 49.9 | | % | | 45-55 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | | 33.4 | | % | | 29-39 | 05-OCT-11 |
| % Clay (<2um) | | | 16.7 | | % | | 10-20 | 05-OCT-11 |

Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

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Contact: Clifton Samoiloff

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Sample Parameter Qualifier Definitions:

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

Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Moisture Content | | | | | | | |
| | 1 | 13-SEP-11 10:32 | 05-OCT-11 00:00 | 14 | 22 | days | EHT |
| | 2 | 13-SEP-11 09:42 | 05-OCT-11 00:00 | 14 | 22 | days | EHT |
| | 3 | 13-SEP-11 09:29 | 05-OCT-11 00:00 | 14 | 22 | days | EHT |
| | 4 | 13-SEP-11 12:49 | 05-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 5 | 13-SEP-11 12:34 | 05-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 6 | 13-SEP-11 12:19 | 05-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 7 | 13-SEP-11 14:29 | 05-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 8 | 13-SEP-11 14:35 | 05-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 9 | 13-SEP-11 15:05 | 05-OCT-11 00:00 | 14 | 21 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| | 1 | 13-SEP-11 10:32 | 04-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 2 | 13-SEP-11 09:42 | 04-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 3 | 13-SEP-11 09:29 | 04-OCT-11 00:00 | 14 | 21 | days | EHT |
| | 4 | 13-SEP-11 12:49 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 5 | 13-SEP-11 12:34 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 6 | 13-SEP-11 12:19 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 7 | 13-SEP-11 14:29 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 8 | 13-SEP-11 14:35 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 9 | 13-SEP-11 15:05 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| Total Metals | | | | | | | |
| Mercury Total | | | | | | | |
| | 2 | 13-SEP-11 09:42 | 12-OCT-11 13:41 | 28 | 29 | days | EHT |
| | 3 | 13-SEP-11 09:29 | 12-OCT-11 13:41 | 28 | 29 | days | EHT |
| | 5 | 13-SEP-11 12:34 | 12-OCT-11 13:41 | 28 | 29 | days | EHT |
| | 6 | 13-SEP-11 12:19 | 12-OCT-11 13:41 | 28 | 29 | days | EHT |
| | 7 | 13-SEP-11 14:29 | 12-OCT-11 13:41 | 28 | 29 | days | EHT |
| | 8 | 13-SEP-11 14:35 | 12-OCT-11 13:41 | 28 | 29 | days | EHT |
| | 9 | 13-SEP-11 15:05 | 12-OCT-11 13:41 | 28 | 29 | 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.
 EHTR-L: 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 L1062763 were received on 23-SEP-11 15:00.

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.

Quality Control Report

Workorder: L1062763

Report Date: 13-OCT-11

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

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Contact: Clifton Samoiloff

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.

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



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

at / Distribution
 Other
 PDF
 Excel
 Digital
 Fax
 Email 1: cliff_samoiloff@aecom.com
 Email 2: shawna_kiantanson@aecom.com
 Email 3: mark_hedfield@aecom.com

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

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

| Sample # | Lab Work Origin (lab use only) | Sample Identification (This description will appear on the report) | Date (dd-mm-yy) | Time (hh:mm) | Sample Type | Number of Containers |
|----------|--------------------------------|--|-----------------|--------------|-------------|----------------------|
| | | TED-01A | 13-Sep-11 | 10:32 | Sediment | 2 |
| | | TED-01B | 13-Sep-11 | 9:42 | Sediment | 1 |
| | | TED-01C | 13-Sep-11 | 9:29 | Sediment | 1 |
| | | UC1-01A | 13-Sep-11 | 12:49 | Sediment | 2 |
| | | UC1-01B | 13-Sep-11 | 12:34 | Sediment | 1 |
| | | UC1-01C | 13-Sep-11 | 12:19 | Sediment | 1 |
| | | THC-01A | 13-Sep-11 | 14:29 | Sediment | 2 |
| | | THC-01B | 13-Sep-11 | 14:35 | Sediment | 1 |
| | | THC-01C | 13-Sep-11 | 15:05 | Sediment | 1 |

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

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

SHIPMENT RELEASE (client use)
 Released by: _____ Date (dd-mm-yy): 13-Sep-11 09:31
 Received by: _____ Date (dd-mm-yy): 13-Sep-11 15:00
 Temperature: 20.8°C

SHIPMENT RECEIPT (lab use only)
 Verified by: _____ Date: _____
 Time: _____

SHIPMENT VERIFICATION (lab use only)
 Observations: Yes / No ?
 if Yes add SIF

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.



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

Date Received: 23-SEP-11
Report Date: 13-OCT-11 13:34 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062764
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------------|------------|-------|-------|-----------|-----------|----------|
| L1062764-1 ANB-07A | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 12:29 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.13 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 9.27 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 1.08 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 9.4 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.059 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 83.6 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 1.03 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 881 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 11.5 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 53.5 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 34.9 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Silty clay loam | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Metals | | | | | | | |
| Aluminum (Al) | 28900 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 1.27 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 15.2 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 147 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.88 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.240 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 14.3 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.561 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 7990 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.78 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 69.0 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 17.7 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 39.7 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 39700 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 14.4 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 11900 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 682 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.391 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 44.0 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 850 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 5540 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 68.0 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 1.25 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.17 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 350 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 36.1 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.31 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 1300 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.132 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.42 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 64.7 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 244 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062764-1 ANB-07A Sampled By: CLIENT on 16-SEP-11 @ 12:29 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 19.3 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062764-2 ANB-07B Sampled By: CLIENT on 16-SEP-11 @ 12:45 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | <0.10 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 9.43 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 0.72 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 9.4 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.057 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 85.2 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 1.04 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 887 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 26500 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 1.47 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 13.5 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 143 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.97 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.278 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 17.6 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.601 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 7400 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 2.78 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 60.6 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 15.6 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 37.0 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 40500 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 15.9 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 11300 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 649 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.363 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 40.1 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 900 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 5360 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 55.7 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 1.20 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.16 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 333 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 33.7 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.34 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 1260 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.134 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.54 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 55.0 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 247 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062764-2 ANB-07B Sampled By: CLIENT on 16-SEP-11 @ 12:45 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 15.6 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062764-3 ANB-07C Sampled By: CLIENT on 16-SEP-11 @ 13:01 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | <0.10 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 9.29 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 0.79 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 9.3 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.061 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 84.7 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 1.00 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 839 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 26500 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 1.27 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 12.2 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 135 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.78 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.221 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 14.6 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.553 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 7340 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.52 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 62.1 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 15.8 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 36.3 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 37800 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 13.0 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 11200 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 751 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.332 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 40.6 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 840 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 5000 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 63.2 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 1.11 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.15 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 320 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 34.4 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.27 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 1180 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.182 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.24 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 57.0 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 235 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062764-4 ANB-08A Sampled By: CLIENT on 16-SEP-11 @ 11:39 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 1060 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.126 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.44 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 57.8 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 140 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 12.7 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062764-5 ANB-08B Sampled By: CLIENT on 16-SEP-11 @ 11:51 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | <0.10 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 5.75 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 0.74 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 5.8 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 83.2 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 0.661 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 846 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 19400 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.59 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 11.0 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 104 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.75 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.182 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 12.7 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.271 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 5430 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 1.97 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 43.6 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 11.1 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 19.9 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 31000 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 10.9 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 8120 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 815 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.215 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 27.3 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 1050 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 3770 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 39.8 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 0.58 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 262 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 24.2 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.23 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062764-5 ANB-08B Sampled By: CLIENT on 16-SEP-11 @ 11:51 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 913 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.114 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.27 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 41.2 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 106 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 7.98 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062764-6 ANB-08C Sampled By: CLIENT on 16-SEP-11 @ 12:04 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.12 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 4.64 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 1.00 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 4.8 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 80.9 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 0.537 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 848 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 19700 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 0.42 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 9.01 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 110 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.61 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.161 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 5.8 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.230 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 6230 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 1.94 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 45.4 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 11.8 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 20.6 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 31400 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 9.33 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 9110 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 808 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.229 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 30.2 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 670 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 3650 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 47.5 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | <0.50 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 262 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 25.4 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.21 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062764-6 ANB-08C Sampled By: CLIENT on 16-SEP-11 @ 12:04 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 836 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.099 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.07 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 43.4 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 100 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 10.5 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062764-7 ANB-06A Sampled By: CLIENT on 16-SEP-11 @ 14:18 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.25 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 1.69 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 2.05 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 1.9 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 64.9 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 0.183 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 630 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 21.5 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Silt (0.05mm - 2um) | 22.7 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| % Clay (<2um) | 55.9 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Texture | Clay | | | | 03-OCT-11 | 05-OCT-11 | R2264462 |
| Metals | | | | | | | |
| Aluminum (Al) | 29000 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 0.32 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 8.30 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 144 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.77 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.178 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 10.9 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.134 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 10700 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.69 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 68.8 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 21.0 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 22.9 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 40300 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 7.65 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 15100 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 654 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.231 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 47.3 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 570 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 5610 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 66.4 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | <0.50 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.15 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|--------|------------|-------|-------|-----------|-----------|----------|
| L1062764-7 ANB-06A | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 14:18 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Sodium (Na) | 409 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 33.7 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.28 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 1410 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.109 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.01 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 62.1 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 104 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 27.9 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062764-8 ANB-06B | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 14:26 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.14 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 8.14 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 1.20 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 8.3 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 80.5 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 0.813 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 727 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 24400 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 0.69 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 12.0 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 127 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.76 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.189 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 11.5 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.339 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 7590 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.29 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 56.2 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 13.8 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 30.3 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 32500 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 11.2 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 10200 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 727 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.300 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 36.3 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 700 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 4290 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 55.0 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 0.81 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.14 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062764-8 ANB-06B Sampled By: CLIENT on 16-SEP-11 @ 14:26 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Sodium (Na) | 299 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 33.0 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.23 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 1080 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.129 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.77 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 53.3 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 128 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 16.4 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062764-9 ANB-06C Sampled By: CLIENT on 17-SEP-11 @ 10:57 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.11 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Organic Carbon | 8.92 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| CaCO3 Equivalent | 0.88 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264115 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 9.0 | | 0.1 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.052 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 87.7 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264138 |
| Total Nitrogen by LECO | 0.918 | | 0.020 | % | 03-OCT-11 | 03-OCT-11 | R2264113 |
| Phosphorus, Total | 781 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 24900 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 0.78 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 12.5 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 126 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.62 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.196 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 11.1 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.351 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 6640 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.38 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 57.1 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 14.0 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 31.4 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 34400 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 11.5 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 10200 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 757 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.333 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 37.3 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 700 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 4460 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 58.5 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 0.80 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.14 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062764-9 ANB-06C | | | | | | | |
| Sampled By: CLIENT on 17-SEP-11 @ 10:57 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Sodium (Na) | 306 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 31.8 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.23 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 1060 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.119 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.27 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 53.8 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 142 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 15.0 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

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

Reference Information

Sample Parameter Qualifier Key:

| Qualifier | Description |
|-----------|----------------------------------|
| UMI | Unreliable: Matrix interference. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

| | | | |
|----------------|------|------------------------------|----------------------|
| C-INORG-ORG-SK | Soil | Inorganic and Organic Carbon | SSSA (1996) P455-456 |
|----------------|------|------------------------------|----------------------|

When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.

Reference:

Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|---------------|------|-----------------------------------|------------------------|
| C-TOT-LECO-SK | Soil | Total Carbon by combustion method | SSSA (1996) P. 973-974 |
|---------------|------|-----------------------------------|------------------------|

The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen.

Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen.

This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference:

Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|------------------|------|---------------|----------------------|
| HG-200.2-CVAF-WP | Soil | Mercury Total | EPA 7470A Rev 1,1994 |
|------------------|------|---------------|----------------------|

A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.

| | | | |
|-----------------|------|--------|--------------------------|
| MET-200.2-MS-WP | Soil | Metals | EPA 200.8/200.2 /BCMOE-S |
|-----------------|------|--------|--------------------------|

This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements. Soil samples are dried (<60 °C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.

The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.

| | | | |
|----------|------|------------------|---------------|
| MOIST-SK | Soil | Moisture Content | ASTM D2216-80 |
|----------|------|------------------|---------------|

The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.

Reference: ASTM D2216-80

| | | | |
|---------------|------|-------------------------------------|------------------------|
| N-TOT-LECO-SK | Soil | Total Nitrogen by combustion method | SSSA (1996) p. 973-974 |
|---------------|------|-------------------------------------|------------------------|

The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen.

Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen.

This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|---------------|------|------------------|-----------|
| P-SALM-ICP-SK | Soil | Total Phosphorus | EPA 200.2 |
|---------------|------|------------------|-----------|

This analysis is carried out using procedures from CSR Analytical Method: "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, 26 June 2009, and procedures adapted from EPA Method 200.2. The sample is dried at 40 °C, then ground to < 2 mm particle size using a stainless steel flail grinder. A representative portion is digested with concentrated nitric and hydrochloric acids for 2 hours in an open vessel digester at 95 degrees. Instrumental analysis of the digested extract is by ICP-OES.

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|--|---------------------------------|
| PSA-3-SK | Soil | Particle size - Pipette removal OM & CO3 | Forestry Canada (1991) p. 46-53 |

Dry, < 2 mm soil is treated hydrochloric acid to remove carbonates, then hydrogen peroxide to remove organic matter. The remaining soil is treated with sodium hexametaphosphate to ensure complete dispersion of primary soil particles. The homogenized suspension is allowed to settle in accordance with Stoke's Law so that only clay particles remain in suspension. To determine the clay fraction, an aliquot of the clay suspension is removed, then dried and weighed. The sand fraction is determined by wet sieving the remaining suspension, then drying and weighing the sand retained on the sieve. The silt fraction is determined by calculation where % Silt = 100 - (%Sand+%Clay)

Reference:

Burt, R. (2009). Soil Survey Field and Laboratory Methods Manual. Soil Survey Investigations Report No. 5. Method 3.2.1.2.2. United States Department of Agriculture Natural Resources Conservation Service.

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

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| SK | ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA |
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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

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

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

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

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

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

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

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

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



Quality Control Report

Workorder: L1062764

Report Date: 13-OCT-11

Page 1 of 15

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|--------|-----------|-------|------|-----------|-----------|
| C-INORG-ORG-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264115 | | | | | | | |
| WG1360095-1 | DUP | L1062764-1 | | | | | | |
| Inorganic Carbon | | 0.13 | 0.10 | | % | 25 | 30 | 04-OCT-11 |
| CaCO3 Equivalent | | 1.08 | 0.85 | | % | 25 | 25 | 04-OCT-11 |
| WG1360095-2 | IRM | 0.4%IC | | | | | | |
| Inorganic Carbon | | | 0.44 | | % | | 0.28-0.52 | 04-OCT-11 |
| CaCO3 Equivalent | | | 3.64 | | % | | 2.33-4.33 | 04-OCT-11 |
| WG1360095-3 | MB | | | | | | | |
| Inorganic Carbon | | | <0.10 | | % | | 0.1 | 04-OCT-11 |
| CaCO3 Equivalent | | | <0.70 | | % | | 1 | 04-OCT-11 |
| C-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264113 | | | | | | | |
| WG1360061-1 | DUP | L1062764-8 | | | | | | |
| Total Carbon by Combustion | | 8.3 | 8.2 | | % | 0.52 | 10 | 03-OCT-11 |
| WG1360061-2 | IRM | 08-109_SOIL | | | | | | |
| Total Carbon by Combustion | | | 1.6 | | % | | 1.1-1.7 | 03-OCT-11 |
| WG1360061-3 | MB | | | | | | | |
| Total Carbon by Combustion | | | <0.1 | | % | | 0.1 | 03-OCT-11 |
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2266580 | | | | | | | |
| WG1364408-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 109 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 101 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-4 | DUP | L1062760-5 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 06-OCT-11 |
| WG1364408-5 | DUP | L1062716-9 | | | | | | |
| Mercury (Hg)-Total | | 0.066 | 0.078 | | mg/kg | 16 | 40 | 06-OCT-11 |
| WG1364408-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 06-OCT-11 |
| Batch | R2268035 | | | | | | | |
| WG1367486-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 112 | | % | | 70-130 | 12-OCT-11 |
| WG1367486-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 87 | | % | | 70-130 | 12-OCT-11 |
| WG1367486-4 | DUP | L1062769-1 | | | | | | |
| Mercury (Hg)-Total | | 0.057 | 0.057 | | mg/kg | 0.53 | 40 | 12-OCT-11 |
| WG1367486-5 | DUP | L1062770-3 | | | | | | |



Quality Control Report

Workorder: L1062764

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2268035 | | | | | | | |
| WG1367486-5 | DUP | L1062770-3 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 12-OCT-11 |
| WG1367486-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 12-OCT-11 |
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 113 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 93 | | % | | 70-130 | 29-SEP-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 105 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 89 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Titanium (Ti) | | | 112 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |



Quality Control Report

Workorder: L1062764

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |
| Aluminum (Al) | | | 73 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 86 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 106 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 123 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 85 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 87 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 79 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 75 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Aluminum (Al) | | 6440 | 6690 | | mg/kg | 3.8 | 40 | 29-SEP-11 |
| Arsenic (As) | | 7.64 | 7.96 | | mg/kg | 4.1 | 30 | 29-SEP-11 |
| Barium (Ba) | | 60.5 | 65.4 | | mg/kg | 7.8 | 40 | 29-SEP-11 |
| Bismuth (Bi) | | 0.087 | 0.075 | | mg/kg | 15 | 30 | 29-SEP-11 |
| Boron (B) | | 2.8 | 3.4 | | mg/kg | 20 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 4.76 | 4.86 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 3140 | 3540 | | mg/kg | 12 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062764

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Cesium (Cs) | | 0.407 | 0.423 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 11.8 | 13.2 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 117 | 136 | | mg/kg | 16 | 30 | 29-SEP-11 |
| Copper (Cu) | | 427 | 462 | | mg/kg | 8.0 | 30 | 29-SEP-11 |
| Iron (Fe) | | 25800 | 25200 | | mg/kg | 2.3 | 30 | 29-SEP-11 |
| Lead (Pb) | | 10.9 | 9.63 | | mg/kg | 13 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 1760 | 1940 | | mg/kg | 9.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 105 | 126 | | mg/kg | 18 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.764 | 0.848 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 38.4 | 43.2 | | mg/kg | 12 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 510 | 530 | | mg/kg | 3.9 | 30 | 29-SEP-11 |
| Potassium (K) | | 575 | 595 | | mg/kg | 3.4 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 4.56 | 5.53 | | mg/kg | 19 | 30 | 29-SEP-11 |
| Selenium (Se) | | 2.66 | 2.73 | | mg/kg | 2.9 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.14 | 0.15 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Sodium (Na) | | 231 | 282 | | mg/kg | 20 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 9.69 | 12.1 | | mg/kg | 22 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 187 | 200 | | mg/kg | 6.5 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.090 | 0.084 | | mg/kg | 6.8 | 30 | 29-SEP-11 |
| Uranium (U) | | 0.613 | 0.563 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 17.3 | 19.1 | | mg/kg | 9.9 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 4890 | 5140 | | mg/kg | 5.1 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 2.82 | 3.07 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Aluminum (Al) | | 30500 | 29800 | | mg/kg | 2.1 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 3.19 | 3.15 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.15 | | mg/kg | 3.3 | 30 | 29-SEP-11 |
| Barium (Ba) | | 133 | 130 | | mg/kg | 2.8 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.86 | 0.88 | | mg/kg | 2.8 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.189 | 0.177 | | mg/kg | 6.4 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062764

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Boron (B) | | 14.7 | 15.0 | | mg/kg | 2.1 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.574 | 0.513 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 9960 | 9830 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 2.47 | 2.43 | | mg/kg | 1.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 72.9 | 73.2 | | mg/kg | 0.35 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.9 | 19.3 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Copper (Cu) | | 43.9 | 43.0 | | mg/kg | 2.2 | 30 | 29-SEP-11 |
| Iron (Fe) | | 37500 | 38900 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Lead (Pb) | | 14.9 | 13.6 | | mg/kg | 9.6 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 12800 | 12900 | | mg/kg | 0.32 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 454 | 448 | | mg/kg | 1.4 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.327 | 0.330 | | mg/kg | 1.1 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 45.7 | 44.9 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 500 | 500 | | mg/kg | 1.0 | 30 | 29-SEP-11 |
| Potassium (K) | | 5850 | 5880 | | mg/kg | 0.64 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 67.7 | 66.9 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.54 | 1.43 | | mg/kg | 7.3 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.18 | 0.19 | | mg/kg | 4.7 | 40 | 29-SEP-11 |
| Sodium (Na) | | 436 | 468 | | mg/kg | 7.0 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 38.3 | 38.7 | | mg/kg | 0.94 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.32 | 0.29 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 1320 | 1330 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 5.2 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.32 | 1.24 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 65.6 | 66.1 | | mg/kg | 0.83 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 670 | 660 | | mg/kg | 1.6 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 24.9 | 26.4 | | mg/kg | 5.6 | 30 | 29-SEP-11 |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Aluminum (Al) | | 21900 | 21200 | | mg/kg | 3.3 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 4.10 | 4.16 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.43 | | mg/kg | 0.32 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062764

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Barium (Ba) | | 111 | 110 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.59 | 0.54 | | mg/kg | 9.6 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.140 | 0.144 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Boron (B) | | 18.9 | 17.5 | | mg/kg | 7.9 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.714 | 0.714 | | mg/kg | 0.020 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 13400 | 13200 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 1.97 | 1.90 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 55.1 | 53.0 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.3 | 18.5 | | mg/kg | 4.0 | 30 | 29-SEP-11 |
| Copper (Cu) | | 41.0 | 40.9 | | mg/kg | 0.23 | 30 | 29-SEP-11 |
| Iron (Fe) | | 28200 | 29200 | | mg/kg | 3.4 | 30 | 29-SEP-11 |
| Lead (Pb) | | 9.92 | 10.5 | | mg/kg | 6.1 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 9610 | 9490 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 701 | 656 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.532 | 0.535 | | mg/kg | 0.44 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 33.0 | 32.7 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 620 | 620 | | mg/kg | 0.48 | 30 | 29-SEP-11 |
| Potassium (K) | | 4260 | 4280 | | mg/kg | 0.47 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 51.8 | 48.3 | | mg/kg | 7.1 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.88 | 1.90 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.15 | 0.16 | | mg/kg | 7.2 | 40 | 29-SEP-11 |
| Sodium (Na) | | 351 | 354 | | mg/kg | 0.81 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 45.8 | 42.9 | | mg/kg | 6.7 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.23 | 0.24 | | mg/kg | 4.7 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 955 | 979 | | mg/kg | 2.6 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.112 | 0.125 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.31 | 1.33 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 48.8 | 48.5 | | mg/kg | 0.73 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 405 | 413 | | mg/kg | 2.0 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 20.1 | 20.1 | | mg/kg | 0.13 | 30 | 29-SEP-11 |
| WG1359420-1 | MB | | | | | | | |



Quality Control Report

Workorder: L1062764

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 29-SEP-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 29-SEP-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |



Quality Control Report

Workorder: L1062764

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Batch | R2262894 | | | | | | | |
| WG1361496-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Antimony (Sb) | | | 119 | | % | | 70-130 | 03-OCT-11 |
| Arsenic (As) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Barium (Ba) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Beryllium (Be) | | | 80 | | % | | 70-130 | 03-OCT-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Cadmium (Cd) | | | 94 | | % | | 70-130 | 03-OCT-11 |
| Calcium (Ca) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Chromium (Cr) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Cobalt (Co) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Copper (Cu) | | | 100 | | % | | 70-130 | 03-OCT-11 |
| Iron (Fe) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Lead (Pb) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| Magnesium (Mg) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Manganese (Mn) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Molybdenum (Mo) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Nickel (Ni) | | | 94 | | % | | 70-130 | 03-OCT-11 |
| Phosphorus (P) | | | 87 | | % | | 70-130 | 03-OCT-11 |
| Potassium (K) | | | 82 | | % | | 70-130 | 03-OCT-11 |
| Silver (Ag) | | | 97 | | % | | 70-130 | 03-OCT-11 |
| Sodium (Na) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Strontium (Sr) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| Thallium (Tl) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Tin (Sn) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Titanium (Ti) | | | 102 | | % | | 70-130 | 03-OCT-11 |
| Uranium (U) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Vanadium (V) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Zinc (Zn) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| WG1361496-3 | CRM | NRC MESS-3 | | | | | | |
| Antimony (Sb) | | | 93 | | % | | 70-130 | 03-OCT-11 |



Quality Control Report

Workorder: L1062764

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-3 | CRM | NRC MESS-3 | | | | | | |
| Arsenic (As) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Barium (Ba) | | | 103 | | % | | 70-130 | 03-OCT-11 |
| Beryllium (Be) | | | 72 | | % | | 70-130 | 03-OCT-11 |
| Cadmium (Cd) | | | 83 | | % | | 70-130 | 03-OCT-11 |
| Calcium (Ca) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Chromium (Cr) | | | 78 | | % | | 70-130 | 03-OCT-11 |
| Cobalt (Co) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Copper (Cu) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Iron (Fe) | | | 103 | | % | | 70-130 | 03-OCT-11 |
| Lead (Pb) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Magnesium (Mg) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Manganese (Mn) | | | 111 | | % | | 70-130 | 03-OCT-11 |
| Molybdenum (Mo) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Nickel (Ni) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Phosphorus (P) | | | 81 | | % | | 70-130 | 03-OCT-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 03-OCT-11 |
| Selenium (Se) | | | 118 | | % | | 70-130 | 03-OCT-11 |
| Silver (Ag) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Sodium (Na) | | | 101 | | % | | 70-130 | 03-OCT-11 |
| Strontium (Sr) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Tin (Sn) | | | 73 | | % | | 70-130 | 03-OCT-11 |
| Uranium (U) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Vanadium (V) | | | 74 | | % | | 70-130 | 03-OCT-11 |
| Zinc (Zn) | | | 95 | | % | | 70-130 | 03-OCT-11 |
| WG1361496-5 | DUP | WG1361496-4 | | | | | | |
| Aluminum (Al) | | 19900 | 17700 | | mg/kg | 12 | 40 | 03-OCT-11 |
| Antimony (Sb) | | 0.15 | 0.16 | | mg/kg | 4.1 | 30 | 03-OCT-11 |
| Arsenic (As) | | 14.8 | 14.0 | | mg/kg | 5.6 | 30 | 03-OCT-11 |
| Barium (Ba) | | 175 | 166 | | mg/kg | 5.3 | 40 | 03-OCT-11 |
| Beryllium (Be) | | 0.47 | 0.55 | | mg/kg | 16 | 30 | 03-OCT-11 |
| Bismuth (Bi) | | 0.097 | 0.102 | | mg/kg | 4.5 | 30 | 03-OCT-11 |
| Boron (B) | | 22.8 | 18.7 | | mg/kg | 19 | 30 | 03-OCT-11 |
| Cadmium (Cd) | | 1.30 | 1.22 | | mg/kg | 6.0 | 30 | 03-OCT-11 |



Quality Control Report

Workorder: L1062764

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-5 | DUP | WG1361496-4 | | | | | | |
| Calcium (Ca) | | 11700 | 10400 | | mg/kg | 12 | 30 | 03-OCT-11 |
| Cesium (Cs) | | 1.46 | 1.30 | | mg/kg | 12 | 30 | 03-OCT-11 |
| Chromium (Cr) | | 82.9 | 77.4 | | mg/kg | 6.9 | 30 | 03-OCT-11 |
| Cobalt (Co) | | 158 | 150 | | mg/kg | 5.5 | 30 | 03-OCT-11 |
| Copper (Cu) | | 271 | 263 | | mg/kg | 3.1 | 30 | 03-OCT-11 |
| Iron (Fe) | | 29800 | 28100 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Lead (Pb) | | 6.94 | 6.65 | | mg/kg | 4.3 | 40 | 03-OCT-11 |
| Magnesium (Mg) | | 7780 | 7350 | | mg/kg | 5.6 | 30 | 03-OCT-11 |
| Manganese (Mn) | | 3540 | 3320 | | mg/kg | 6.2 | 30 | 03-OCT-11 |
| Molybdenum (Mo) | | 0.722 | 0.786 | | mg/kg | 8.6 | 40 | 03-OCT-11 |
| Nickel (Ni) | | 59.0 | 55.6 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Phosphorus (P) | | 570 | 510 | | mg/kg | 9.7 | 30 | 03-OCT-11 |
| Potassium (K) | | 3490 | 2930 | | mg/kg | 17 | 40 | 03-OCT-11 |
| Rubidium (Rb) | | 34.6 | 31.3 | | mg/kg | 9.9 | 30 | 03-OCT-11 |
| Selenium (Se) | | 0.95 | 0.85 | | mg/kg | 11 | 30 | 03-OCT-11 |
| Silver (Ag) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Sodium (Na) | | 248 | 211 | | mg/kg | 16 | 40 | 03-OCT-11 |
| Strontium (Sr) | | 40.1 | 36.7 | | mg/kg | 8.9 | 40 | 03-OCT-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 03-OCT-11 |
| Thallium (Tl) | | 0.18 | 0.16 | | mg/kg | 7.3 | 30 | 03-OCT-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Titanium (Ti) | | 790 | 681 | | mg/kg | 15 | 40 | 03-OCT-11 |
| Tungsten (W) | | 0.149 | 0.153 | | mg/kg | 2.2 | 30 | 03-OCT-11 |
| Uranium (U) | | 1.51 | 1.39 | | mg/kg | 8.1 | 30 | 03-OCT-11 |
| Vanadium (V) | | 41.9 | 36.7 | | mg/kg | 13 | 30 | 03-OCT-11 |
| Zinc (Zn) | | 1080 | 1040 | | mg/kg | 3.7 | 30 | 03-OCT-11 |
| Zirconium (Zr) | | 6.34 | 6.73 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| WG1361496-7 | DUP | WG1361496-6 | | | | | | |
| Aluminum (Al) | | 22900 | 23100 | | mg/kg | 1.2 | 40 | 03-OCT-11 |
| Antimony (Sb) | | 2.52 | 2.67 | | mg/kg | 5.8 | 30 | 03-OCT-11 |
| Arsenic (As) | | 14.4 | 14.8 | | mg/kg | 2.4 | 30 | 03-OCT-11 |
| Barium (Ba) | | 121 | 124 | | mg/kg | 2.4 | 40 | 03-OCT-11 |
| Beryllium (Be) | | 0.79 | 0.73 | | mg/kg | 8.5 | 30 | 03-OCT-11 |



Quality Control Report

Workorder: L1062764

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-7 | DUP | WG1361496-6 | | | | | | |
| Bismuth (Bi) | | 0.215 | 0.214 | | mg/kg | 0.36 | 30 | 03-OCT-11 |
| Boron (B) | | 16.8 | 14.2 | | mg/kg | 17 | 30 | 03-OCT-11 |
| Cadmium (Cd) | | 0.918 | 0.908 | | mg/kg | 1.1 | 30 | 03-OCT-11 |
| Calcium (Ca) | | 10500 | 10100 | | mg/kg | 4.0 | 30 | 03-OCT-11 |
| Cesium (Cs) | | 2.40 | 2.36 | | mg/kg | 1.8 | 30 | 03-OCT-11 |
| Chromium (Cr) | | 56.9 | 53.5 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Cobalt (Co) | | 17.3 | 16.6 | | mg/kg | 4.2 | 30 | 03-OCT-11 |
| Copper (Cu) | | 44.9 | 44.7 | | mg/kg | 0.25 | 30 | 03-OCT-11 |
| Iron (Fe) | | 32300 | 33600 | | mg/kg | 3.7 | 30 | 03-OCT-11 |
| Lead (Pb) | | 14.3 | 14.5 | | mg/kg | 1.9 | 40 | 03-OCT-11 |
| Magnesium (Mg) | | 9900 | 9240 | | mg/kg | 6.8 | 30 | 03-OCT-11 |
| Manganese (Mn) | | 522 | 499 | | mg/kg | 4.4 | 30 | 03-OCT-11 |
| Molybdenum (Mo) | | 0.468 | 0.477 | | mg/kg | 2.0 | 40 | 03-OCT-11 |
| Nickel (Ni) | | 37.2 | 35.4 | | mg/kg | 4.8 | 30 | 03-OCT-11 |
| Phosphorus (P) | | 700 | 630 | | mg/kg | 11 | 30 | 03-OCT-11 |
| Potassium (K) | | 4800 | 4260 | | mg/kg | 12 | 40 | 03-OCT-11 |
| Rubidium (Rb) | | 50.2 | 48.9 | | mg/kg | 2.5 | 30 | 03-OCT-11 |
| Selenium (Se) | | 1.90 | 1.79 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Silver (Ag) | | 0.17 | 0.19 | | mg/kg | 7.1 | 40 | 03-OCT-11 |
| Sodium (Na) | | 376 | 313 | | mg/kg | 19 | 40 | 03-OCT-11 |
| Strontium (Sr) | | 34.8 | 33.9 | | mg/kg | 2.4 | 40 | 03-OCT-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 03-OCT-11 |
| Thallium (Tl) | | 0.31 | 0.31 | | mg/kg | 0.73 | 30 | 03-OCT-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Titanium (Ti) | | 1070 | 1070 | | mg/kg | 0.28 | 40 | 03-OCT-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 4.9 | 30 | 03-OCT-11 |
| Uranium (U) | | 1.24 | 1.25 | | mg/kg | 0.57 | 30 | 03-OCT-11 |
| Vanadium (V) | | 47.3 | 44.5 | | mg/kg | 6.1 | 30 | 03-OCT-11 |
| Zinc (Zn) | | 439 | 437 | | mg/kg | 0.34 | 30 | 03-OCT-11 |
| Zirconium (Zr) | | 19.0 | 19.6 | | mg/kg | 3.2 | 30 | 03-OCT-11 |
| WG1361496-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 03-OCT-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |



Quality Control Report

Workorder: L1062764

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-1 | MB | | | | | | | |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 03-OCT-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 03-OCT-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 03-OCT-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 03-OCT-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 03-OCT-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 03-OCT-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 03-OCT-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |



Quality Control Report

Workorder: L1062764

Report Date: 13-OCT-11

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

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|----------|-------------|--------|-----------|-------|-------|-------------|-----------|
| MOIST-SK | | Soil | | | | | | |
| Batch | R2264138 | | | | | | | |
| WG1360346-1 | DUP | L1062763-1 | | | | | | |
| % Moisture | | 91.5 | 83.5 | | % | 9.2 | 25 | 05-OCT-11 |
| N-TOT-LECO-SK | | Soil | | | | | | |
| Batch | R2264113 | | | | | | | |
| WG1360061-1 | DUP | L1062764-8 | | | | | | |
| Total Nitrogen by LECO | | 0.813 | 0.793 | J | % | 0.020 | 0.05 | 03-OCT-11 |
| WG1360061-2 | IRM | 08-109_SOIL | | | | | | |
| Total Nitrogen by LECO | | | 0.118 | | % | | 0.085-0.135 | 03-OCT-11 |
| WG1360061-3 | MB | | | | | | | |
| Total Nitrogen by LECO | | | <0.020 | | % | | 0.02 | 03-OCT-11 |
| P-SALM-ICP-SK | | Soil | | | | | | |
| Batch | R2263935 | | | | | | | |
| WG1359961-2 | CRM | SS-1_SOIL | | | | | | |
| Phosphorus, Total | | | 1080 | | mg/kg | | 750-1530 | 04-OCT-11 |
| WG1359961-4 | DUP | L1062760-6 | | | | | | |
| Phosphorus, Total | | 426 | 441 | | mg/kg | 3.5 | 30 | 04-OCT-11 |
| WG1359961-5 | DUP | L1062732-6 | | | | | | |
| Phosphorus, Total | | 668 | 652 | | mg/kg | 2.5 | 30 | 04-OCT-11 |
| WG1359961-1 | MB | | | | | | | |
| Phosphorus, Total | | | <50 | | mg/kg | | 50 | 04-OCT-11 |
| PSA-3-SK | | Soil | | | | | | |
| Batch | R2264462 | | | | | | | |
| WG1360043-1 | DUP | L1062763-4 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | 25.7 | 25.4 | J | % | 0.22 | 10 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | 31.9 | 30.1 | J | % | 1.81 | 10 | 05-OCT-11 |
| % Clay (<2um) | | 42.4 | 44.5 | J | % | 2.03 | 10 | 05-OCT-11 |
| WG1360043-2 | IRM | FARM2009 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | | 49.9 | | % | | 45-55 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | | 33.4 | | % | | 29-39 | 05-OCT-11 |
| % Clay (<2um) | | | 16.7 | | % | | 10-20 | 05-OCT-11 |

Quality Control Report

Workorder: L1062764

Report Date: 13-OCT-11

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

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Contact: Clifton Samoiloff

Legend:

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

Sample Parameter Qualifier Definitions:

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

Quality Control Report

Workorder: L1062764

Report Date: 13-OCT-11

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

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Moisture Content | | | | | | | |
| | 1 | 16-SEP-11 12:29 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 2 | 16-SEP-11 12:45 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 3 | 16-SEP-11 13:01 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 4 | 16-SEP-11 11:39 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 5 | 16-SEP-11 11:51 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 6 | 16-SEP-11 12:04 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 7 | 16-SEP-11 14:18 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 8 | 16-SEP-11 14:26 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 9 | 17-SEP-11 10:57 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| | 1 | 16-SEP-11 12:29 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 2 | 16-SEP-11 12:45 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 3 | 16-SEP-11 13:01 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 4 | 16-SEP-11 11:39 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 5 | 16-SEP-11 11:51 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 6 | 16-SEP-11 12:04 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 7 | 16-SEP-11 14:18 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 8 | 16-SEP-11 14:26 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 9 | 17-SEP-11 10:57 | 04-OCT-11 00:00 | 14 | 17 | 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 L1062764 were received on 23-SEP-11 15:00.

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.



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



Report To
 Company: AECOM-W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone: Fax:
 Invoiced To Same as Report? Yes No
 Hardcopy of Invoice with Report? Yes No
 Company:
 Contact:
 Address:
 Phone: Fax: Q24534
 ALS Contact:
 Lab Work Order# (lab use only)

t / Distribution
 Other
 PDF Excel Digital Fax
 Email 1: cliff.samoiloff@aecom.com
 Email 2: shawna.kiartanson@aecom.com
 Email 3: mark.hadfield@aecom.com
 Client / Project Information
 Job #: 60213483
 PO / AFE:
 LSD:
 Quote #: Q24534

| Sample # | Sample Identification (This description will appear on the report) | Sampler: | | Sample Type | C-TOT-ORG-SK | MOIST-SK | N-TOT-LECO-SK | P-SALM-ICP-SK | MET-200.2-MS-WP | HG-200.2-CVAF-WP | PREP-DRY/GRIND | PSA-1 (Or 3 if 1 not possible) | Number of Containers |
|----------|---|-----------------|--------------|-------------|--------------|----------|---------------|---------------|-----------------|------------------|----------------|--------------------------------|----------------------|
| | | Date (dd-mm-yy) | Time (hh:mm) | | | | | | | | | | |
| | ANB-07A | 16-Sep-11 | 12:29 | Sediment | X | X | X | X | X | X | X | X | 2 |
| | ANB-07B | 16-Sep-11 | 12:45 | Sediment | X | X | X | X | X | X | X | X | 1 |
| | ANB-07C | 16-Sep-11 | 13:01 | Sediment | X | X | X | X | X | X | X | X | 1 |
| | ANB-08A | 16-Sep-11 | 11:39 | Sediment | X | X | X | X | X | X | X | X | 2 |
| | ANB-08B | 16-Sep-11 | 11:51 | Sediment | X | X | X | X | X | X | X | X | 1 |
| | ANB-08C | 16-Sep-11 | 12:04 | Sediment | X | X | X | X | X | X | X | X | 1 |
| | ANB-06A | 16-Sep-11 | 14:18 | Sediment | X | X | X | X | X | X | X | X | 2 |
| | ANB-06B | 16-Sep-11 | 14:26 | Sediment | X | X | X | X | X | X | X | X | 1 |
| | ANB-06C | 17-Sep-11 | 10:57 | Sediment | X | X | X | X | X | X | X | X | 1 |

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

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

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: *[Signature]* Date: 23-Sep-11 Time: 09:34
 Received by: *[Signature]* Date: 23-Sep-11 Time: 15:00
 Temperature: 20.5 °C
 Verified by: _____ Date: _____
 SHIPMENT RECEIVED (lab use only) SHIPMENT VERIFICATION (lab use only)
 Observations: Yes / No ? If Yes add SIF
 GENF 18.01 Front



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 23-SEP-11
Report Date: 13-OCT-11 13:34 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062767
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-------|-------|-----------|-----------|----------|
| L1062767-1 ANB-04A | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 14:45 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | <0.10 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 11.7 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | <0.70 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 11.7 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.050 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 89.0 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 1.18 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 663 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 1.79 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Silt (0.05mm - 2um) | 75.8 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Clay (<2um) | 22.4 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Texture | Silt loam | | | | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Metals | | | | | | | |
| Aluminum (Al) | 25400 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.47 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 12.4 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 146 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.97 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.253 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 17.7 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.408 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 9210 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 2.73 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 61.8 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 14.3 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 36.5 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 34900 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 15.2 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 11400 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 508 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.491 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 42.3 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 650 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 5410 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 54.6 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 0.83 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.18 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 367 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 33.1 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.32 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 1160 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.121 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.51 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 52.3 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 155 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062767-1 ANB-04A Sampled By: CLIENT on 16-SEP-11 @ 14:45 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 20.5 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062767-2 ANB-04B Sampled By: CLIENT on 16-SEP-11 @ 15:01 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.15 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 13.1 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | 1.28 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 13.3 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.054 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 92.6 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 1.38 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 881 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 22800 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 3.07 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 17.8 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 139 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.81 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.243 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 23.8 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.823 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 10500 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 2.55 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 71.9 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 16.1 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 47.2 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 34400 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 15.3 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 10500 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 683 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.716 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 46.0 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 970 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 6010 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 52.0 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 1.89 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.15 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 567 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 37.5 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.32 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 1060 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.173 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.47 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 50.7 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 383 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062767-2 ANB-04B Sampled By: CLIENT on 16-SEP-11 @ 15:01 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 11.8 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062767-3 ANB-04C Sampled By: CLIENT on 16-SEP-11 @ 15:06 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | <0.10 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263461 |
| Total Organic Carbon | 12.5 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263461 |
| CaCO3 Equivalent | 0.75 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2263461 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 12.5 | | 0.1 | % | 04-OCT-11 | 04-OCT-11 | R2263460 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.057 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 80.8 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2264467 |
| Total Nitrogen by LECO | 1.34 | | 0.020 | % | 04-OCT-11 | 04-OCT-11 | R2263460 |
| Phosphorus, Total | 877 | | 50 | mg/kg | 05-OCT-11 | 05-OCT-11 | R2263954 |
| Metals | | | | | | | |
| Aluminum (Al) | 22000 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 2.22 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 16.4 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 123 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.78 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.234 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 18.2 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.813 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 9240 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 2.38 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 54.6 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 16.1 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 46.1 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 33300 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 15.2 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 10000 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 611 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.518 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 38.6 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 780 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 5090 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 48.3 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 1.72 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.16 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 449 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 31.9 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.31 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 952 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.142 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.34 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 46.2 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 390 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062767-4 ANB-09A Sampled By: CLIENT on 16-SEP-11 @ 10:51 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 1340 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.115 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.68 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 69.9 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 150 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 13.3 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062767-5 ANB-09B Sampled By: CLIENT on 16-SEP-11 @ 11:06 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | <0.10 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 7.16 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | 0.79 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 7.2 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.064 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 83.8 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 0.789 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 1160 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 29600 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 0.78 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 23.3 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 163 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.95 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.240 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 13.4 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.310 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 7530 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.87 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 66.4 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 16.7 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 30.1 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 46700 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 14.6 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 11800 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 1660 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.320 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 42.6 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 1090 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 5390 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 70.2 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 0.81 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.14 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 333 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 37.4 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.29 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062767-5 ANB-09B Sampled By: CLIENT on 16-SEP-11 @ 11:06 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 1270 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.177 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.65 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 64.3 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 147 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 12.6 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062767-6 ANB-09C Sampled By: CLIENT on 16-SEP-11 @ 11:17 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | <0.10 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 6.93 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | <0.70 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 6.9 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.057 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 80.9 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 0.752 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 1140 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 27700 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.70 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 19.1 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 164 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 1.05 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.297 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 18.7 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.313 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 7270 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 2.89 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 65.6 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 16.1 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 30.6 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 45600 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 17.2 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 12100 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 1310 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.353 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 42.7 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 1050 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 5720 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 59.1 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 0.88 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.15 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 332 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 34.2 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.34 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------------|------------|-------|-------|-----------|-----------|----------|
| L1062767-6 ANB-09C Sampled By: CLIENT on 16-SEP-11 @ 11:17 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 1290 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.133 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 2.00 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 63.9 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 146 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 13.5 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062767-7 ANB-10A Sampled By: CLIENT on 16-SEP-11 @ 10:00 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | <0.10 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 3.74 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | <0.70 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 3.7 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 67.1 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 0.427 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 664 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 58.4 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Silt (0.05mm - 2um) | 18.1 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Clay (<2um) | 23.4 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Texture | Sandy clay loam | | | | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Metals | | | | | | | |
| Aluminum (Al) | 15500 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.20 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 6.79 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 89.6 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.57 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.162 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 10.6 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.170 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 3990 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 1.60 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 38.4 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 9.87 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 17.6 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 24500 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 9.30 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 7160 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 567 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.198 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 23.7 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 680 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 3160 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 32.0 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | <0.50 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062767-7 ANB-10A Sampled By: CLIENT on 16-SEP-11 @ 10:00 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Sodium (Na) | 228 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 18.0 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.20 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 788 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.131 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.26 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 37.8 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 62 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 6.70 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062767-8 ANB-10B Sampled By: CLIENT on 16-SEP-11 @ 10:17 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | <0.10 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 2.90 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | 0.78 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 2.9 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 59.1 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 0.327 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 591 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 10900 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.12 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 5.29 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 59.3 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.35 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.108 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 8.2 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.138 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 3050 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 1.08 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 25.4 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 6.99 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 12.2 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 17100 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 6.61 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 4960 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 364 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.150 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 16.5 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 580 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 2100 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 21.3 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | <0.50 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062767-8 ANB-10B Sampled By: CLIENT on 16-SEP-11 @ 10:17 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Sodium (Na) | 162 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 13.0 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.14 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 574 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.080 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.08 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 26.6 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 43 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 4.41 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062767-9 ANB-10C Sampled By: CLIENT on 16-SEP-11 @ 10:26 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | <0.10 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 1.53 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | <0.70 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 1.5 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 44.1 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 0.154 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 520 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 8590 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 4.00 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 43.5 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.32 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.072 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 6.1 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.100 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 2610 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 0.751 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 18.9 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 5.97 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 8.9 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 13200 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 4.75 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 3860 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 279 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.127 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 11.7 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 530 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 1570 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 14.9 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | <0.50 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062767-9 ANB-10C | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 10:26 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Sodium (Na) | 151 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 10.1 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 446 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.065 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 0.977 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 21.5 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 31 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 3.77 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---|--------|--|---------------------------------|
| C-INORG-ORG-SK | Soil | Inorganic and Organic Carbon | SSSA (1996) P455-456 |
| <p>When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.</p> <p>Reference: Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p> | | | |
| C-TOT-LECO-SK | Soil | Total Carbon by combustion method | SSSA (1996) P. 973-974 |
| <p>The sample is introduced into a quartz tube where it undergoes combustion at 900 C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p> | | | |
| HG-200.2-CVAF-WP | Soil | Mercury Total | EPA 7470A Rev 1,1994 |
| <p>A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.</p> | | | |
| MET-200.2-MS-WP | Soil | Metals | EPA 200.8/200.2 /BCMOE-S |
| <p>This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements . Soil samples are dried (<60 C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.</p> <p>The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.</p> <p>Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.</p> | | | |
| MOIST-SK | Soil | Moisture Content | ASTM D2216-80 |
| <p>The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.</p> <p>Reference: ASTM D2216-80</p> | | | |
| N-TOT-LECO-SK | Soil | Total Nitrogen by combustion method | SSSA (1996) p. 973-974 |
| <p>The sample is introduced into a quartz tube where it undergoes combustion at 900 C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p> | | | |
| P-SALM-ICP-SK | Soil | Total Phosphorus | EPA 200.2 |
| <p>This analysis is carried out using procedures from CSR Analytical Method: "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, 26 June 2009, and procedures adapted from EPA Method 200.2. The sample is dried at 40 C, then ground to < 2 mm particle size using a stainless steel flail grinder. A representative portion is digested with concentrated nitric and hydrochloric acids for 2 hours in an open vessel digester at 95 degrees. Instrumental analysis of the digested extract is by ICP-OES.</p> | | | |
| PSA-3-SK | Soil | Particle size - Pipette removal OM & CO ₃ | Forestry Canada (1991) p. 46-53 |
| <p>Dry, < 2 mm soil is treated hydrochloric acid top remove carbonates, then hydrogen peroxide to remove organic matter. The remaining soil is treated with sodium hexametaphosphate to ensure complete dispersion of primary soil particles. The homogenized suspension is allowed to settle in accordance with Stoke's Law so that only clay particles remain in suspension. To determine the clay fraction, an aliquot of the clay suspension is removed, then dried and weighed. The sand fraction is determined by wet sieving the remaining suspension, then drying and weighing the sand retained</p> | | | |

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

on the sieve. The silt fraction is determined by calculation where % Silt = 100 - (%Sand+%Clay)

Reference:

Burt, R. (2009). Soil Survey Field and Laboratory Methods Manual. Soil Survey Investigations Report No. 5. Method 3.2.1.2.2. United States Department of Agriculture Natural Resources Conservation Service.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| SK | ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA |
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

Page 1 of 16

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|--------|-----------|-------|------|-----------|-----------|
| C-INORG-ORG-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263461 | | | | | | | |
| WG1361282-1 | DUP | L1062783-12 | | | | | | |
| Inorganic Carbon | | 0.40 | 0.40 | | % | 0.90 | 30 | 04-OCT-11 |
| CaCO3 Equivalent | | 3.37 | 3.34 | | % | 0.90 | 25 | 04-OCT-11 |
| WG1361282-2 | IRM | 0.4%IC | | | | | | |
| Inorganic Carbon | | | 0.44 | | % | | 0.28-0.52 | 04-OCT-11 |
| CaCO3 Equivalent | | | 3.66 | | % | | 2.33-4.33 | 04-OCT-11 |
| WG1361282-3 | MB | | | | | | | |
| Inorganic Carbon | | | <0.10 | | % | | 0.1 | 04-OCT-11 |
| CaCO3 Equivalent | | | <0.70 | | % | | 1 | 04-OCT-11 |
| Batch | R2264106 | | | | | | | |
| WG1360096-1 | DUP | L1062769-1 | | | | | | |
| Inorganic Carbon | | 0.14 | 0.13 | | % | 0.68 | 30 | 04-OCT-11 |
| CaCO3 Equivalent | | 1.13 | 1.12 | | % | 0.68 | 25 | 04-OCT-11 |
| WG1360096-2 | IRM | 0.4%IC | | | | | | |
| Inorganic Carbon | | | 0.44 | | % | | 0.28-0.52 | 04-OCT-11 |
| CaCO3 Equivalent | | | 3.69 | | % | | 2.33-4.33 | 04-OCT-11 |
| WG1360096-3 | MB | | | | | | | |
| Inorganic Carbon | | | <0.10 | | % | | 0.1 | 04-OCT-11 |
| CaCO3 Equivalent | | | <0.70 | | % | | 1 | 04-OCT-11 |
| C-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263460 | | | | | | | |
| WG1361276-1 | DUP | L1062783-12 | | | | | | |
| Total Carbon by Combustion | | 1.9 | 1.9 | | % | 0.38 | 10 | 04-OCT-11 |
| WG1361276-2 | IRM | 08-109_SOIL | | | | | | |
| Total Carbon by Combustion | | | 1.4 | | % | | 1.1-1.7 | 04-OCT-11 |
| WG1361276-3 | MB | | | | | | | |
| Total Carbon by Combustion | | | <0.1 | | % | | 0.1 | 04-OCT-11 |
| Batch | R2264105 | | | | | | | |
| WG1360064-1 | DUP | L1062769-5 | | | | | | |
| Total Carbon by Combustion | | 40.1 | 39.9 | | % | 0.53 | 10 | 01-OCT-11 |
| WG1360064-2 | IRM | 08-109_SOIL | | | | | | |
| Total Carbon by Combustion | | | 1.4 | | % | | 1.1-1.7 | 01-OCT-11 |
| WG1360064-3 | MB | | | | | | | |
| Total Carbon by Combustion | | | <0.1 | | % | | 0.1 | 01-OCT-11 |
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |



Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|------|--------|-----------|
| HG-200.2-CVAF-WP | | Soil | | | | | | |
| Batch | R2266580 | | | | | | | |
| WG1364408-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 109 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 101 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-4 | DUP | L1062760-5 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 06-OCT-11 |
| WG1364408-5 | DUP | L1062716-9 | | | | | | |
| Mercury (Hg)-Total | | 0.066 | 0.078 | | mg/kg | 16 | 40 | 06-OCT-11 |
| WG1364408-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 06-OCT-11 |
| Batch | | R2268035 | | | | | | |
| WG1367486-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 112 | | % | | 70-130 | 12-OCT-11 |
| WG1367486-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 87 | | % | | 70-130 | 12-OCT-11 |
| WG1367486-4 | DUP | L1062769-1 | | | | | | |
| Mercury (Hg)-Total | | 0.057 | 0.057 | | mg/kg | 0.53 | 40 | 12-OCT-11 |
| WG1367486-5 | DUP | L1062770-3 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 12-OCT-11 |
| WG1367486-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 12-OCT-11 |
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 113 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 93 | | % | | 70-130 | 29-SEP-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 105 | | % | | 70-130 | 29-SEP-11 |



Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-2 | CRM | NRC PACS-2 | | | | | | |
| Magnesium (Mg) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 89 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Titanium (Ti) | | | 112 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |
| Aluminum (Al) | | | 73 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 86 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 106 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 123 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 85 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 98 | | % | | 70-130 | 29-SEP-11 |



Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |
| Silver (Ag) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 87 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 79 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 75 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Aluminum (Al) | | 6440 | 6690 | | mg/kg | 3.8 | 40 | 29-SEP-11 |
| Arsenic (As) | | 7.64 | 7.96 | | mg/kg | 4.1 | 30 | 29-SEP-11 |
| Barium (Ba) | | 60.5 | 65.4 | | mg/kg | 7.8 | 40 | 29-SEP-11 |
| Bismuth (Bi) | | 0.087 | 0.075 | | mg/kg | 15 | 30 | 29-SEP-11 |
| Boron (B) | | 2.8 | 3.4 | | mg/kg | 20 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 4.76 | 4.86 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 3140 | 3540 | | mg/kg | 12 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 0.407 | 0.423 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 11.8 | 13.2 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 117 | 136 | | mg/kg | 16 | 30 | 29-SEP-11 |
| Copper (Cu) | | 427 | 462 | | mg/kg | 8.0 | 30 | 29-SEP-11 |
| Iron (Fe) | | 25800 | 25200 | | mg/kg | 2.3 | 30 | 29-SEP-11 |
| Lead (Pb) | | 10.9 | 9.63 | | mg/kg | 13 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 1760 | 1940 | | mg/kg | 9.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 105 | 126 | | mg/kg | 18 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.764 | 0.848 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 38.4 | 43.2 | | mg/kg | 12 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 510 | 530 | | mg/kg | 3.9 | 30 | 29-SEP-11 |
| Potassium (K) | | 575 | 595 | | mg/kg | 3.4 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 4.56 | 5.53 | | mg/kg | 19 | 30 | 29-SEP-11 |
| Selenium (Se) | | 2.66 | 2.73 | | mg/kg | 2.9 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.14 | 0.15 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Sodium (Na) | | 231 | 282 | | mg/kg | 20 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 9.69 | 12.1 | | mg/kg | 22 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Thallium (Tl) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 187 | 200 | | mg/kg | 6.5 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.090 | 0.084 | | mg/kg | 6.8 | 30 | 29-SEP-11 |
| Uranium (U) | | 0.613 | 0.563 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 17.3 | 19.1 | | mg/kg | 9.9 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 4890 | 5140 | | mg/kg | 5.1 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 2.82 | 3.07 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Aluminum (Al) | | 30500 | 29800 | | mg/kg | 2.1 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 3.19 | 3.15 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.15 | | mg/kg | 3.3 | 30 | 29-SEP-11 |
| Barium (Ba) | | 133 | 130 | | mg/kg | 2.8 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.86 | 0.88 | | mg/kg | 2.8 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.189 | 0.177 | | mg/kg | 6.4 | 30 | 29-SEP-11 |
| Boron (B) | | 14.7 | 15.0 | | mg/kg | 2.1 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.574 | 0.513 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 9960 | 9830 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 2.47 | 2.43 | | mg/kg | 1.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 72.9 | 73.2 | | mg/kg | 0.35 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.9 | 19.3 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Copper (Cu) | | 43.9 | 43.0 | | mg/kg | 2.2 | 30 | 29-SEP-11 |
| Iron (Fe) | | 37500 | 38900 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Lead (Pb) | | 14.9 | 13.6 | | mg/kg | 9.6 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 12800 | 12900 | | mg/kg | 0.32 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 454 | 448 | | mg/kg | 1.4 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.327 | 0.330 | | mg/kg | 1.1 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 45.7 | 44.9 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 500 | 500 | | mg/kg | 1.0 | 30 | 29-SEP-11 |
| Potassium (K) | | 5850 | 5880 | | mg/kg | 0.64 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 67.7 | 66.9 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.54 | 1.43 | | mg/kg | 7.3 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.18 | 0.19 | | mg/kg | 4.7 | 40 | 29-SEP-11 |



Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Sodium (Na) | | 436 | 468 | | mg/kg | 7.0 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 38.3 | 38.7 | | mg/kg | 0.94 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.32 | 0.29 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 1320 | 1330 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 5.2 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.32 | 1.24 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 65.6 | 66.1 | | mg/kg | 0.83 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 670 | 660 | | mg/kg | 1.6 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 24.9 | 26.4 | | mg/kg | 5.6 | 30 | 29-SEP-11 |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Aluminum (Al) | | 21900 | 21200 | | mg/kg | 3.3 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 4.10 | 4.16 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.43 | | mg/kg | 0.32 | 30 | 29-SEP-11 |
| Barium (Ba) | | 111 | 110 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.59 | 0.54 | | mg/kg | 9.6 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.140 | 0.144 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Boron (B) | | 18.9 | 17.5 | | mg/kg | 7.9 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.714 | 0.714 | | mg/kg | 0.020 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 13400 | 13200 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 1.97 | 1.90 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 55.1 | 53.0 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.3 | 18.5 | | mg/kg | 4.0 | 30 | 29-SEP-11 |
| Copper (Cu) | | 41.0 | 40.9 | | mg/kg | 0.23 | 30 | 29-SEP-11 |
| Iron (Fe) | | 28200 | 29200 | | mg/kg | 3.4 | 30 | 29-SEP-11 |
| Lead (Pb) | | 9.92 | 10.5 | | mg/kg | 6.1 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 9610 | 9490 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 701 | 656 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.532 | 0.535 | | mg/kg | 0.44 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 33.0 | 32.7 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 620 | 620 | | mg/kg | 0.48 | 30 | 29-SEP-11 |
| Potassium (K) | | 4260 | 4280 | | mg/kg | 0.47 | 40 | 29-SEP-11 |



Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Rubidium (Rb) | | 51.8 | 48.3 | | mg/kg | 7.1 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.88 | 1.90 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.15 | 0.16 | | mg/kg | 7.2 | 40 | 29-SEP-11 |
| Sodium (Na) | | 351 | 354 | | mg/kg | 0.81 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 45.8 | 42.9 | | mg/kg | 6.7 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.23 | 0.24 | | mg/kg | 4.7 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 955 | 979 | | mg/kg | 2.6 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.112 | 0.125 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.31 | 1.33 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 48.8 | 48.5 | | mg/kg | 0.73 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 405 | 413 | | mg/kg | 2.0 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 20.1 | 20.1 | | mg/kg | 0.13 | 30 | 29-SEP-11 |
| WG1359420-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 29-SEP-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |



Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 29-SEP-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Batch | R2262894 | | | | | | | |
| WG1361496-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Antimony (Sb) | | | 119 | | % | | 70-130 | 03-OCT-11 |
| Arsenic (As) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Barium (Ba) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Beryllium (Be) | | | 80 | | % | | 70-130 | 03-OCT-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Cadmium (Cd) | | | 94 | | % | | 70-130 | 03-OCT-11 |
| Calcium (Ca) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Chromium (Cr) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Cobalt (Co) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Copper (Cu) | | | 100 | | % | | 70-130 | 03-OCT-11 |
| Iron (Fe) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Lead (Pb) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| Magnesium (Mg) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Manganese (Mn) | | | 92 | | % | | 70-130 | 03-OCT-11 |



Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-2 | CRM | NRC PACS-2 | | | | | | |
| Molybdenum (Mo) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Nickel (Ni) | | | 94 | | % | | 70-130 | 03-OCT-11 |
| Phosphorus (P) | | | 87 | | % | | 70-130 | 03-OCT-11 |
| Potassium (K) | | | 82 | | % | | 70-130 | 03-OCT-11 |
| Silver (Ag) | | | 97 | | % | | 70-130 | 03-OCT-11 |
| Sodium (Na) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Strontium (Sr) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| Thallium (Tl) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Tin (Sn) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Titanium (Ti) | | | 102 | | % | | 70-130 | 03-OCT-11 |
| Uranium (U) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Vanadium (V) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Zinc (Zn) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| WG1361496-3 | CRM | NRC MESS-3 | | | | | | |
| Antimony (Sb) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Arsenic (As) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Barium (Ba) | | | 103 | | % | | 70-130 | 03-OCT-11 |
| Beryllium (Be) | | | 72 | | % | | 70-130 | 03-OCT-11 |
| Cadmium (Cd) | | | 83 | | % | | 70-130 | 03-OCT-11 |
| Calcium (Ca) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Chromium (Cr) | | | 78 | | % | | 70-130 | 03-OCT-11 |
| Cobalt (Co) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Copper (Cu) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Iron (Fe) | | | 103 | | % | | 70-130 | 03-OCT-11 |
| Lead (Pb) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Magnesium (Mg) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Manganese (Mn) | | | 111 | | % | | 70-130 | 03-OCT-11 |
| Molybdenum (Mo) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Nickel (Ni) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Phosphorus (P) | | | 81 | | % | | 70-130 | 03-OCT-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 03-OCT-11 |
| Selenium (Se) | | | 118 | | % | | 70-130 | 03-OCT-11 |
| Silver (Ag) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Sodium (Na) | | | 101 | | % | | 70-130 | 03-OCT-11 |



Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-3 | CRM | NRC MESS-3 | | | | | | |
| Strontium (Sr) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Tin (Sn) | | | 73 | | % | | 70-130 | 03-OCT-11 |
| Uranium (U) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Vanadium (V) | | | 74 | | % | | 70-130 | 03-OCT-11 |
| Zinc (Zn) | | | 95 | | % | | 70-130 | 03-OCT-11 |
| WG1361496-5 | DUP | WG1361496-4 | | | | | | |
| Aluminum (Al) | | 19900 | 17700 | | mg/kg | 12 | 40 | 03-OCT-11 |
| Antimony (Sb) | | 0.15 | 0.16 | | mg/kg | 4.1 | 30 | 03-OCT-11 |
| Arsenic (As) | | 14.8 | 14.0 | | mg/kg | 5.6 | 30 | 03-OCT-11 |
| Barium (Ba) | | 175 | 166 | | mg/kg | 5.3 | 40 | 03-OCT-11 |
| Beryllium (Be) | | 0.47 | 0.55 | | mg/kg | 16 | 30 | 03-OCT-11 |
| Bismuth (Bi) | | 0.097 | 0.102 | | mg/kg | 4.5 | 30 | 03-OCT-11 |
| Boron (B) | | 22.8 | 18.7 | | mg/kg | 19 | 30 | 03-OCT-11 |
| Cadmium (Cd) | | 1.30 | 1.22 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Calcium (Ca) | | 11700 | 10400 | | mg/kg | 12 | 30 | 03-OCT-11 |
| Cesium (Cs) | | 1.46 | 1.30 | | mg/kg | 12 | 30 | 03-OCT-11 |
| Chromium (Cr) | | 82.9 | 77.4 | | mg/kg | 6.9 | 30 | 03-OCT-11 |
| Cobalt (Co) | | 158 | 150 | | mg/kg | 5.5 | 30 | 03-OCT-11 |
| Copper (Cu) | | 271 | 263 | | mg/kg | 3.1 | 30 | 03-OCT-11 |
| Iron (Fe) | | 29800 | 28100 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Lead (Pb) | | 6.94 | 6.65 | | mg/kg | 4.3 | 40 | 03-OCT-11 |
| Magnesium (Mg) | | 7780 | 7350 | | mg/kg | 5.6 | 30 | 03-OCT-11 |
| Manganese (Mn) | | 3540 | 3320 | | mg/kg | 6.2 | 30 | 03-OCT-11 |
| Molybdenum (Mo) | | 0.722 | 0.786 | | mg/kg | 8.6 | 40 | 03-OCT-11 |
| Nickel (Ni) | | 59.0 | 55.6 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Phosphorus (P) | | 570 | 510 | | mg/kg | 9.7 | 30 | 03-OCT-11 |
| Potassium (K) | | 3490 | 2930 | | mg/kg | 17 | 40 | 03-OCT-11 |
| Rubidium (Rb) | | 34.6 | 31.3 | | mg/kg | 9.9 | 30 | 03-OCT-11 |
| Selenium (Se) | | 0.95 | 0.85 | | mg/kg | 11 | 30 | 03-OCT-11 |
| Silver (Ag) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Sodium (Na) | | 248 | 211 | | mg/kg | 16 | 40 | 03-OCT-11 |
| Strontium (Sr) | | 40.1 | 36.7 | | mg/kg | 8.9 | 40 | 03-OCT-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 03-OCT-11 |



Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-5 | DUP | WG1361496-4 | | | | | | |
| Thallium (Tl) | | 0.18 | 0.16 | | mg/kg | 7.3 | 30 | 03-OCT-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Titanium (Ti) | | 790 | 681 | | mg/kg | 15 | 40 | 03-OCT-11 |
| Tungsten (W) | | 0.149 | 0.153 | | mg/kg | 2.2 | 30 | 03-OCT-11 |
| Uranium (U) | | 1.51 | 1.39 | | mg/kg | 8.1 | 30 | 03-OCT-11 |
| Vanadium (V) | | 41.9 | 36.7 | | mg/kg | 13 | 30 | 03-OCT-11 |
| Zinc (Zn) | | 1080 | 1040 | | mg/kg | 3.7 | 30 | 03-OCT-11 |
| Zirconium (Zr) | | 6.34 | 6.73 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| WG1361496-7 | DUP | WG1361496-6 | | | | | | |
| Aluminum (Al) | | 22900 | 23100 | | mg/kg | 1.2 | 40 | 03-OCT-11 |
| Antimony (Sb) | | 2.52 | 2.67 | | mg/kg | 5.8 | 30 | 03-OCT-11 |
| Arsenic (As) | | 14.4 | 14.8 | | mg/kg | 2.4 | 30 | 03-OCT-11 |
| Barium (Ba) | | 121 | 124 | | mg/kg | 2.4 | 40 | 03-OCT-11 |
| Beryllium (Be) | | 0.79 | 0.73 | | mg/kg | 8.5 | 30 | 03-OCT-11 |
| Bismuth (Bi) | | 0.215 | 0.214 | | mg/kg | 0.36 | 30 | 03-OCT-11 |
| Boron (B) | | 16.8 | 14.2 | | mg/kg | 17 | 30 | 03-OCT-11 |
| Cadmium (Cd) | | 0.918 | 0.908 | | mg/kg | 1.1 | 30 | 03-OCT-11 |
| Calcium (Ca) | | 10500 | 10100 | | mg/kg | 4.0 | 30 | 03-OCT-11 |
| Cesium (Cs) | | 2.40 | 2.36 | | mg/kg | 1.8 | 30 | 03-OCT-11 |
| Chromium (Cr) | | 56.9 | 53.5 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Cobalt (Co) | | 17.3 | 16.6 | | mg/kg | 4.2 | 30 | 03-OCT-11 |
| Copper (Cu) | | 44.9 | 44.7 | | mg/kg | 0.25 | 30 | 03-OCT-11 |
| Iron (Fe) | | 32300 | 33600 | | mg/kg | 3.7 | 30 | 03-OCT-11 |
| Lead (Pb) | | 14.3 | 14.5 | | mg/kg | 1.9 | 40 | 03-OCT-11 |
| Magnesium (Mg) | | 9900 | 9240 | | mg/kg | 6.8 | 30 | 03-OCT-11 |
| Manganese (Mn) | | 522 | 499 | | mg/kg | 4.4 | 30 | 03-OCT-11 |
| Molybdenum (Mo) | | 0.468 | 0.477 | | mg/kg | 2.0 | 40 | 03-OCT-11 |
| Nickel (Ni) | | 37.2 | 35.4 | | mg/kg | 4.8 | 30 | 03-OCT-11 |
| Phosphorus (P) | | 700 | 630 | | mg/kg | 11 | 30 | 03-OCT-11 |
| Potassium (K) | | 4800 | 4260 | | mg/kg | 12 | 40 | 03-OCT-11 |
| Rubidium (Rb) | | 50.2 | 48.9 | | mg/kg | 2.5 | 30 | 03-OCT-11 |
| Selenium (Se) | | 1.90 | 1.79 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Silver (Ag) | | 0.17 | 0.19 | | mg/kg | 7.1 | 40 | 03-OCT-11 |



Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-7 | DUP | WG1361496-6 | | | | | | |
| Sodium (Na) | | 376 | 313 | | mg/kg | 19 | 40 | 03-OCT-11 |
| Strontium (Sr) | | 34.8 | 33.9 | | mg/kg | 2.4 | 40 | 03-OCT-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 03-OCT-11 |
| Thallium (Tl) | | 0.31 | 0.31 | | mg/kg | 0.73 | 30 | 03-OCT-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Titanium (Ti) | | 1070 | 1070 | | mg/kg | 0.28 | 40 | 03-OCT-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 4.9 | 30 | 03-OCT-11 |
| Uranium (U) | | 1.24 | 1.25 | | mg/kg | 0.57 | 30 | 03-OCT-11 |
| Vanadium (V) | | 47.3 | 44.5 | | mg/kg | 6.1 | 30 | 03-OCT-11 |
| Zinc (Zn) | | 439 | 437 | | mg/kg | 0.34 | 30 | 03-OCT-11 |
| Zirconium (Zr) | | 19.0 | 19.6 | | mg/kg | 3.2 | 30 | 03-OCT-11 |
| WG1361496-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 03-OCT-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 03-OCT-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 03-OCT-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 03-OCT-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 03-OCT-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 03-OCT-11 |



Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-1 | MB | | | | | | | |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 03-OCT-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 03-OCT-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| N-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263460 | | | | | | | |
| WG1361276-2 | IRM | 08-109_SOIL | | | | | | |
| Total Nitrogen by LECO | | | 0.111 | | % | | 0.085-0.135 | 04-OCT-11 |
| WG1361276-3 | MB | | | | | | | |
| Total Nitrogen by LECO | | | <0.020 | | % | | 0.02 | 04-OCT-11 |
| Batch | R2264105 | | | | | | | |
| WG1360064-1 | DUP | L1062769-5 | | | | | | |
| Total Nitrogen by LECO | | 3.09 | 3.08 | J | % | 0.004 | 0.05 | 01-OCT-11 |
| WG1360064-2 | IRM | 08-109_SOIL | | | | | | |
| Total Nitrogen by LECO | | | 0.110 | | % | | 0.085-0.135 | 01-OCT-11 |
| WG1360064-3 | MB | | | | | | | |
| Total Nitrogen by LECO | | | <0.020 | | % | | 0.02 | 01-OCT-11 |
| P-SALM-ICP-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263655 | | | | | | | |
| WG1359965-2 | CRM | SS-1_SOIL | | | | | | |
| Phosphorus, Total | | | 1100 | | mg/kg | | 750-1530 | 04-OCT-11 |
| WG1359965-3 | DUP | L1062761-6 | | | | | | |
| Phosphorus, Total | | 1160 | 1140 | | mg/kg | 1.5 | 30 | 04-OCT-11 |
| WG1359965-5 | DUP | L1062767-9 | | | | | | |
| Phosphorus, Total | | 520 | 535 | | mg/kg | 2.8 | 30 | 04-OCT-11 |



Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|------|----------|-----------|
| P-SALM-ICP-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263655 | | | | | | | |
| WG1359965-1 | MB | | | | | | | |
| Phosphorus, Total | | | <50 | | mg/kg | | 50 | 04-OCT-11 |
| Batch | R2263954 | | | | | | | |
| WG1361197-2 | CRM | SS-1_SOIL | | | | | | |
| Phosphorus, Total | | | 1100 | | mg/kg | | 750-1530 | 05-OCT-11 |
| WG1361197-3 | DUP | L1066261-1 | | | | | | |
| Phosphorus, Total | | 467 | 461 | | mg/kg | 1.1 | 30 | 05-OCT-11 |
| WG1361197-1 | MB | | | | | | | |
| Phosphorus, Total | | | <50 | | mg/kg | | 50 | 05-OCT-11 |
| PSA-3-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264046 | | | | | | | |
| WG1360047-1 | DUP | L1062770-1 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | 67.9 | 68.7 | J | % | 0.83 | 10 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | 9.98 | 10.3 | J | % | 0.32 | 10 | 05-OCT-11 |
| % Clay (<2um) | | 22.1 | 21.0 | J | % | 1.16 | 10 | 05-OCT-11 |
| WG1360047-2 | IRM | FARM2009 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | | 50.9 | | % | | 45-55 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | | 31.4 | | % | | 29-39 | 05-OCT-11 |
| % Clay (<2um) | | | 17.7 | | % | | 10-20 | 05-OCT-11 |

Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

Client: AECOM Canada Ltd. (Winnipeg)
99 Commerce Drive
Winnipeg MB R3P 0Y7

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Contact: Clifton Samoiloff

Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|---|
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L1062767

Report Date: 13-OCT-11

Client: AECOM Canada Ltd. (Winnipeg)
99 Commerce Drive
Winnipeg MB R3P 0Y7
Contact: Clifton Samoiloff

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Moisture Content | | | | | | | |
| | 1 | 16-SEP-11 14:45 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 2 | 16-SEP-11 15:01 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 3 | 16-SEP-11 15:06 | 05-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 4 | 16-SEP-11 10:51 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 5 | 16-SEP-11 11:06 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 6 | 16-SEP-11 11:17 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 7 | 16-SEP-11 10:00 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 8 | 16-SEP-11 10:17 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 9 | 16-SEP-11 10:26 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| | 1 | 16-SEP-11 14:45 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 2 | 16-SEP-11 15:01 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 3 | 16-SEP-11 15:06 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 4 | 16-SEP-11 10:51 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 5 | 16-SEP-11 11:06 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 6 | 16-SEP-11 11:17 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 7 | 16-SEP-11 10:00 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 8 | 16-SEP-11 10:17 | 04-OCT-11 00:00 | 14 | 18 | days | EHT |
| | 9 | 16-SEP-11 10:26 | 04-OCT-11 00:00 | 14 | 18 | 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 L1062767 were received on 23-SEP-11 15:00.

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.



Custody / Analytical Request Form
 Tada Toll Free: 1 800 668 9878
 www.alsglobal.com



Report To
 Company: AECOM-W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone:
 Invoice To Same as Report? Yes No
 Hardcopy of invoice with Report? Yes No
 Company:
 Contact:
 Address:
 Phone:

Service Requested (Rush for routine analysis subject to availability)
 Regular (Standard Turnaround Times - Business Days)
 Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
 Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
 Same Day or Weekend Emergency - Contact ALS to Confirm TAT

Analysis Request
 Please indicate below Filtered, Preserved or both (F, P, F/P)
 C-TOT-ORG-SK
 MOIST-SK
 N-TOT-LECO-SK
 P-SALM-ICP-SK
 MET-200.2-MS-WP
 HG-200.2-CVAF-WP
 PREP-DRY/GRIND
 PSA-1 (Or 3 if 1 not possible)

| Sample # | Sample Identification (This description will appear on the report) | Date (dd-mm-yy) | Time (hh:mm) | Sample Type | Number of Containers |
|----------|---|--------------------|-----------------|-------------|----------------------|
| | ANB-04A | 16-Sep-11 | 14:45 | Sediment | 2 |
| | ANB-04B | 16-Sep-11 | 15:01 | Sediment | 1 |
| | ANB-04C | 16-Sep-11 | 15:06 | Sediment | 1 |
| | ANB-09A | 16-Sep-11 | 10:51 | Sediment | 2 |
| | ANB-09B | 16-Sep-11 | 11:06 | Sediment | 1 |
| | ANB-09C | 16-Sep-11 | 11:17 | Sediment | 1 |
| | ANB-10A | 16-Sep-11 | 10:00 | Sediment | 2 |
| | ANB-10B | 16-Sep-11 | 10:17 | Sediment | 1 |
| | ANB-10C | 16-Sep-11 | 10:26 | Sediment | 1 |

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RECEIPT (lab use only)

Released by: *[Signature]* Date (dd-mm-yy): 13-Sep-11 Time (hh-mm): 9:53
 Received by: *[Signature]* Date: 23-Sep-11 Time: 15:00 Temperature: 20.8 °C
 Verified by: _____ Date: _____
 Observations: Yes / No? _____ If Yes add SIF _____



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 23-SEP-11
Report Date: 13-OCT-11 13:35 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062769
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------------------------|------------|-------|-------|-----------|-----------|----------|
| L1062769-1 ANB-03A | | | | | | | |
| Sampled By: CLIENT on 17-SEP-11 @ 10:16 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.14 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 12.7 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | 1.13 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 12.8 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.057 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 87.1 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 1.20 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 673 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 3.32 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Silt (0.05mm - 2um) | 69.5 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Clay (<2um) | 27.1 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Texture | Silt loam / Silty clay loam | | | | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Metals | | | | | | | |
| Aluminum (Al) | 22900 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 2.52 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 14.4 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 121 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.79 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.215 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 16.8 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.918 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 10500 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 2.40 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 56.9 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 17.3 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 44.9 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 32300 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 14.3 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 9900 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 522 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.468 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 37.2 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 700 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 4800 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 50.2 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 1.90 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.17 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 376 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 34.8 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.31 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 1070 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.141 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.24 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 47.3 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 439 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062769-1 ANB-03A Sampled By: CLIENT on 17-SEP-11 @ 10:16 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 19.0 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062769-2 ANB-03B Sampled By: CLIENT on 17-SEP-11 @ 10:28 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.16 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 15.7 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | 1.35 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 15.9 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.077 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 96.9 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 1.31 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 674 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 20400 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 5.01 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 12.0 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 101 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.69 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.188 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 16.3 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 1.47 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 12200 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 2.02 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 61.6 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 26.4 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 54.8 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 29200 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 14.3 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 9120 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 500 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 1.01 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 38.9 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 670 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 3880 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 41.0 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 3.32 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.18 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 309 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 36.7 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.31 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 920 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.131 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.72 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 43.7 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 847 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062769-2 ANB-03B Sampled By: CLIENT on 17-SEP-11 @ 10:28 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 20.3 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062769-3 ANB-03C Sampled By: CLIENT on 17-SEP-11 @ 10:39 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.11 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 12.3 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | 0.91 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 12.4 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.099 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 95.7 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 1.21 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 730 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 23600 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 1.32 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 14.0 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 124 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.85 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.234 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 15.7 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.732 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 10400 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 2.48 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 56.4 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 17.7 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 41.1 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 34800 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 15.0 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 10100 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 542 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.434 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 38.4 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 640 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 4910 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 51.8 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 1.47 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.17 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 341 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 34.5 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.30 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 1070 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.146 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.25 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 47.1 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 354 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-------|-------|-----------|-----------|----------|
| L1062769-3 ANB-03C Sampled By: CLIENT on 17-SEP-11 @ 10:39 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 20.0 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062769-4 ARL-01A Sampled By: CLIENT on 15-SEP-11 @ 09:58 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.15 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 39.2 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | 1.23 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 39.4 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.080 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 93.7 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 3.18 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 627 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 1.56 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Silt (0.05mm - 2um) | 76.7 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Clay (<2um) | 21.7 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Texture | Silt loam | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Metals | | | | | | | |
| Aluminum (Al) | 3390 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.14 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 12.3 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 78.0 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.13 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.067 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 12.5 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.425 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 13700 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 0.309 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 6.5 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 3.57 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 24.2 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 3350 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 7.44 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 1600 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 121 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 1.05 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 9.47 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 580 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 278 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 2.63 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 1.34 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 77 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 30.9 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062769-4 ARL-01A Sampled By: CLIENT on 15-SEP-11 @ 09:58 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 83.9 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.071 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 0.554 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 10.9 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 75 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 2.84 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062769-5 ARL-01B Sampled By: CLIENT on 15-SEP-11 @ 10:08 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.14 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 39.9 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | 1.16 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 40.1 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.057 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 96.3 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 3.09 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 595 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 2470 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 9.26 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 67.3 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.11 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.028 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 7.5 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.279 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 9850 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 0.174 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 4.3 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 2.52 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 17.7 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 2250 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 2.10 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 1130 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 103 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.811 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 6.55 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 380 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 172 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 1.54 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 0.96 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 55 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 25.2 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062769-5 ARL-01B Sampled By: CLIENT on 15-SEP-11 @ 10:08 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 42.1 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | <0.050 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 0.484 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 7.92 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 53 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 1.47 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062769-6 ARL-01C Sampled By: CLIENT on 15-SEP-11 @ 10:14 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.11 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 38.4 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | 0.89 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 38.5 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.060 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 95.7 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 3.09 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 618 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 2620 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 11.1 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 73.9 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.13 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.045 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 9.1 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.325 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 11600 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 0.210 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 5.2 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 2.87 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 20.3 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 2750 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 4.31 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 1230 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 120 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.790 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 7.89 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 470 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 205 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 1.87 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 1.07 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 63 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 27.1 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-------|-------|-----------|-----------|----------|
| L1062769-6 ARL-01C Sampled By: CLIENT on 15-SEP-11 @ 10:14 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 50.4 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.058 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 0.484 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 8.76 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 59 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 1.70 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062769-7 GHC-01A Sampled By: CLIENT on 13-SEP-11 @ 15:59 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.26 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 33.7 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | 2.19 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 34.0 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.080 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 93.9 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 1.78 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 788 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 21.5 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Silt (0.05mm - 2um) | 78.0 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Clay (<2um) | 0.56 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Texture | Silt loam | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Note: Results Unreliable. Insufficient soil for analysis. | | | | | | | |
| Metals | | | | | | | |
| Aluminum (Al) | 2530 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.17 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 32.0 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 41.8 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.037 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 6.3 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.330 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 7790 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 0.122 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 14.1 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 2.26 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 33.3 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 6580 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 7.42 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 1450 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 180 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.669 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 8.26 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 590 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 435 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 2.27 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------------------------|------------|-------|-------|-----------|-----------|----------|
| L1062769-7 | GHC-01A | | | | | | |
| Sampled By: | CLIENT on 13-SEP-11 @ 15:59 | | | | | | |
| Matrix: | SEDIMENT | | | | | | |
| Metals | | | | | | | |
| Selenium (Se) | 0.55 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 96 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 22.2 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 109 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.138 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 0.393 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 7.20 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 589 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 1.16 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062769-8 | GHC-01B | | | | | | |
| Sampled By: | CLIENT on 13-SEP-11 @ 16:33 | | | | | | |
| Matrix: | SEDIMENT | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.31 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 37.3 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | 2.61 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 37.6 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.106 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 99.0 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 2.25 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 970 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 1590 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.23 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 34.9 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 39.7 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.043 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 5.2 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.364 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 6670 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 0.089 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 10.2 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 1.96 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 29.7 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 3010 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 9.07 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 1250 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 107 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.649 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 6.56 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 490 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 290 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 1.59 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|-----------------------------|------------|-------|-------|-----------|-----------|----------|
| L1062769-8 | GHC-01B | | | | | | |
| Sampled By: | CLIENT on 13-SEP-11 @ 16:33 | | | | | | |
| Matrix: | SEDIMENT | | | | | | |
| Metals | | | | | | | |
| Selenium (Se) | <0.50 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 80 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 38.9 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 67.3 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.118 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 0.228 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 4.75 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 521 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 0.72 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062769-9 | GHC-01C | | | | | | |
| Sampled By: | CLIENT on 13-SEP-11 @ 16:41 | | | | | | |
| Matrix: | SEDIMENT | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.35 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Organic Carbon | 36.9 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| CaCO3 Equivalent | 2.92 | | 0.70 | % | 04-OCT-11 | 04-OCT-11 | R2264106 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 37.3 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.106 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 96.4 | | 0.10 | % | 04-OCT-11 | 04-OCT-11 | R2263002 |
| Total Nitrogen by LECO | 2.48 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2264105 |
| Phosphorus, Total | 1480 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Metals | | | | | | | |
| Aluminum (Al) | 1730 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.24 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 50.3 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 47.7 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.073 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 8.6 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.646 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 13000 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 0.099 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 11.9 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 2.42 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 36.5 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 5150 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 15.7 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 1720 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 398 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.997 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 8.27 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 1180 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 1540 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 3.14 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

| Qualifier | Description |
|-----------|----------------------------------|
| UMI | Unreliable: Matrix interference. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

| | | | |
|----------------|------|------------------------------|----------------------|
| C-INORG-ORG-SK | Soil | Inorganic and Organic Carbon | SSSA (1996) P455-456 |
|----------------|------|------------------------------|----------------------|

When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.

Reference:

Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|---------------|------|-----------------------------------|------------------------|
| C-TOT-LECO-SK | Soil | Total Carbon by combustion method | SSSA (1996) P. 973-974 |
|---------------|------|-----------------------------------|------------------------|

The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen.

Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen.

This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference:

Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|------------------|------|---------------|----------------------|
| HG-200.2-CVAF-WP | Soil | Mercury Total | EPA 7470A Rev 1,1994 |
|------------------|------|---------------|----------------------|

A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.

| | | | |
|-----------------|------|--------|--------------------------|
| MET-200.2-MS-WP | Soil | Metals | EPA 200.8/200.2 /BCMOE-S |
|-----------------|------|--------|--------------------------|

This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements. Soil samples are dried (<60 °C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.

The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.

| | | | |
|----------|------|------------------|---------------|
| MOIST-SK | Soil | Moisture Content | ASTM D2216-80 |
|----------|------|------------------|---------------|

The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.

Reference: ASTM D2216-80

| | | | |
|---------------|------|-------------------------------------|------------------------|
| N-TOT-LECO-SK | Soil | Total Nitrogen by combustion method | SSSA (1996) p. 973-974 |
|---------------|------|-------------------------------------|------------------------|

The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen.

Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen.

This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|---------------|------|------------------|-----------|
| P-SALM-ICP-SK | Soil | Total Phosphorus | EPA 200.2 |
|---------------|------|------------------|-----------|

This analysis is carried out using procedures from CSR Analytical Method: "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, 26 June 2009, and procedures adapted from EPA Method 200.2. The sample is dried at 40 °C, then ground to < 2 mm particle size using a stainless steel flail grinder. A representative portion is digested with concentrated nitric and hydrochloric acids for 2 hours in an open vessel digester at 95 degrees. Instrumental analysis of the digested extract is by ICP-OES.

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|--|---------------------------------|
| PSA-3-SK | Soil | Particle size - Pipette removal OM & CO3 | Forestry Canada (1991) p. 46-53 |

Dry, < 2 mm soil is treated hydrochloric acid to remove carbonates, then hydrogen peroxide to remove organic matter. The remaining soil is treated with sodium hexametaphosphate to ensure complete dispersion of primary soil particles. The homogenized suspension is allowed to settle in accordance with Stoke's Law so that only clay particles remain in suspension. To determine the clay fraction, an aliquot of the clay suspension is removed, then dried and weighed. The sand fraction is determined by wet sieving the remaining suspension, then drying and weighing the sand retained on the sieve. The silt fraction is determined by calculation where % Silt = 100 - (%Sand+%Clay)

Reference:

Burt, R. (2009). Soil Survey Field and Laboratory Methods Manual. Soil Survey Investigations Report No. 5. Method 3.2.1.2.2. United States Department of Agriculture Natural Resources Conservation Service.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| SK | ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA |
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1062769

Report Date: 13-OCT-11

Page 1 of 9

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|--------|-----------|-------|------|-----------|-----------|
| C-INORG-ORG-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264106 | | | | | | | |
| WG1360096-1 | DUP | L1062769-1 | | | | | | |
| Inorganic Carbon | | 0.14 | 0.13 | | % | 0.68 | 30 | 04-OCT-11 |
| CaCO3 Equivalent | | 1.13 | 1.12 | | % | 0.68 | 25 | 04-OCT-11 |
| WG1360096-2 | IRM | 0.4%IC | | | | | | |
| Inorganic Carbon | | | 0.44 | | % | | 0.28-0.52 | 04-OCT-11 |
| CaCO3 Equivalent | | | 3.69 | | % | | 2.33-4.33 | 04-OCT-11 |
| WG1360096-3 | MB | | | | | | | |
| Inorganic Carbon | | | <0.10 | | % | | 0.1 | 04-OCT-11 |
| CaCO3 Equivalent | | | <0.70 | | % | | 1 | 04-OCT-11 |
| C-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264105 | | | | | | | |
| WG1360064-1 | DUP | L1062769-5 | | | | | | |
| Total Carbon by Combustion | | 40.1 | 39.9 | | % | 0.53 | 10 | 01-OCT-11 |
| WG1360064-2 | IRM | 08-109_SOIL | | | | | | |
| Total Carbon by Combustion | | | 1.4 | | % | | 1.1-1.7 | 01-OCT-11 |
| WG1360064-3 | MB | | | | | | | |
| Total Carbon by Combustion | | | <0.1 | | % | | 0.1 | 01-OCT-11 |
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2268035 | | | | | | | |
| WG1367486-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 112 | | % | | 70-130 | 12-OCT-11 |
| WG1367486-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 87 | | % | | 70-130 | 12-OCT-11 |
| WG1367486-4 | DUP | L1062769-1 | | | | | | |
| Mercury (Hg)-Total | | 0.057 | 0.057 | | mg/kg | 0.53 | 40 | 12-OCT-11 |
| WG1367486-5 | DUP | L1062770-3 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 12-OCT-11 |
| WG1367486-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 12-OCT-11 |
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Antimony (Sb) | | | 119 | | % | | 70-130 | 03-OCT-11 |
| Arsenic (As) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Barium (Ba) | | | 90 | | % | | 70-130 | 03-OCT-11 |



Quality Control Report

Workorder: L1062769

Report Date: 13-OCT-11

Page 2 of 9

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-2 | CRM | NRC PACS-2 | | | | | | |
| Beryllium (Be) | | | 80 | | % | | 70-130 | 03-OCT-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Cadmium (Cd) | | | 94 | | % | | 70-130 | 03-OCT-11 |
| Calcium (Ca) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Chromium (Cr) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Cobalt (Co) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Copper (Cu) | | | 100 | | % | | 70-130 | 03-OCT-11 |
| Iron (Fe) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Lead (Pb) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| Magnesium (Mg) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Manganese (Mn) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Molybdenum (Mo) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Nickel (Ni) | | | 94 | | % | | 70-130 | 03-OCT-11 |
| Phosphorus (P) | | | 87 | | % | | 70-130 | 03-OCT-11 |
| Potassium (K) | | | 82 | | % | | 70-130 | 03-OCT-11 |
| Silver (Ag) | | | 97 | | % | | 70-130 | 03-OCT-11 |
| Sodium (Na) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Strontium (Sr) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| Thallium (Tl) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Tin (Sn) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Titanium (Ti) | | | 102 | | % | | 70-130 | 03-OCT-11 |
| Uranium (U) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Vanadium (V) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Zinc (Zn) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| WG1361496-3 | CRM | NRC MESS-3 | | | | | | |
| Antimony (Sb) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Arsenic (As) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Barium (Ba) | | | 103 | | % | | 70-130 | 03-OCT-11 |
| Beryllium (Be) | | | 72 | | % | | 70-130 | 03-OCT-11 |
| Cadmium (Cd) | | | 83 | | % | | 70-130 | 03-OCT-11 |
| Calcium (Ca) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Chromium (Cr) | | | 78 | | % | | 70-130 | 03-OCT-11 |
| Cobalt (Co) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Copper (Cu) | | | 98 | | % | | 70-130 | 03-OCT-11 |



Quality Control Report

Workorder: L1062769

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-3 | CRM | NRC MESS-3 | | | | | | |
| Iron (Fe) | | | 103 | | % | | 70-130 | 03-OCT-11 |
| Lead (Pb) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Magnesium (Mg) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Manganese (Mn) | | | 111 | | % | | 70-130 | 03-OCT-11 |
| Molybdenum (Mo) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Nickel (Ni) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Phosphorus (P) | | | 81 | | % | | 70-130 | 03-OCT-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 03-OCT-11 |
| Selenium (Se) | | | 118 | | % | | 70-130 | 03-OCT-11 |
| Silver (Ag) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Sodium (Na) | | | 101 | | % | | 70-130 | 03-OCT-11 |
| Strontium (Sr) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Tin (Sn) | | | 73 | | % | | 70-130 | 03-OCT-11 |
| Uranium (U) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Vanadium (V) | | | 74 | | % | | 70-130 | 03-OCT-11 |
| Zinc (Zn) | | | 95 | | % | | 70-130 | 03-OCT-11 |
| WG1361496-5 | DUP | WG1361496-4 | | | | | | |
| Aluminum (Al) | | 19900 | 17700 | | mg/kg | 12 | 40 | 03-OCT-11 |
| Antimony (Sb) | | 0.15 | 0.16 | | mg/kg | 4.1 | 30 | 03-OCT-11 |
| Arsenic (As) | | 14.8 | 14.0 | | mg/kg | 5.6 | 30 | 03-OCT-11 |
| Barium (Ba) | | 175 | 166 | | mg/kg | 5.3 | 40 | 03-OCT-11 |
| Beryllium (Be) | | 0.47 | 0.55 | | mg/kg | 16 | 30 | 03-OCT-11 |
| Bismuth (Bi) | | 0.097 | 0.102 | | mg/kg | 4.5 | 30 | 03-OCT-11 |
| Boron (B) | | 22.8 | 18.7 | | mg/kg | 19 | 30 | 03-OCT-11 |
| Cadmium (Cd) | | 1.30 | 1.22 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Calcium (Ca) | | 11700 | 10400 | | mg/kg | 12 | 30 | 03-OCT-11 |
| Cesium (Cs) | | 1.46 | 1.30 | | mg/kg | 12 | 30 | 03-OCT-11 |
| Chromium (Cr) | | 82.9 | 77.4 | | mg/kg | 6.9 | 30 | 03-OCT-11 |
| Cobalt (Co) | | 158 | 150 | | mg/kg | 5.5 | 30 | 03-OCT-11 |
| Copper (Cu) | | 271 | 263 | | mg/kg | 3.1 | 30 | 03-OCT-11 |
| Iron (Fe) | | 29800 | 28100 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Lead (Pb) | | 6.94 | 6.65 | | mg/kg | 4.3 | 40 | 03-OCT-11 |
| Magnesium (Mg) | | 7780 | 7350 | | mg/kg | 5.6 | 30 | 03-OCT-11 |



Quality Control Report

Workorder: L1062769

Report Date: 13-OCT-11

Page 4 of 9

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-5 | DUP | WG1361496-4 | | | | | | |
| Manganese (Mn) | | 3540 | 3320 | | mg/kg | 6.2 | 30 | 03-OCT-11 |
| Molybdenum (Mo) | | 0.722 | 0.786 | | mg/kg | 8.6 | 40 | 03-OCT-11 |
| Nickel (Ni) | | 59.0 | 55.6 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Phosphorus (P) | | 570 | 510 | | mg/kg | 9.7 | 30 | 03-OCT-11 |
| Potassium (K) | | 3490 | 2930 | | mg/kg | 17 | 40 | 03-OCT-11 |
| Rubidium (Rb) | | 34.6 | 31.3 | | mg/kg | 9.9 | 30 | 03-OCT-11 |
| Selenium (Se) | | 0.95 | 0.85 | | mg/kg | 11 | 30 | 03-OCT-11 |
| Silver (Ag) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Sodium (Na) | | 248 | 211 | | mg/kg | 16 | 40 | 03-OCT-11 |
| Strontium (Sr) | | 40.1 | 36.7 | | mg/kg | 8.9 | 40 | 03-OCT-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 03-OCT-11 |
| Thallium (Tl) | | 0.18 | 0.16 | | mg/kg | 7.3 | 30 | 03-OCT-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Titanium (Ti) | | 790 | 681 | | mg/kg | 15 | 40 | 03-OCT-11 |
| Tungsten (W) | | 0.149 | 0.153 | | mg/kg | 2.2 | 30 | 03-OCT-11 |
| Uranium (U) | | 1.51 | 1.39 | | mg/kg | 8.1 | 30 | 03-OCT-11 |
| Vanadium (V) | | 41.9 | 36.7 | | mg/kg | 13 | 30 | 03-OCT-11 |
| Zinc (Zn) | | 1080 | 1040 | | mg/kg | 3.7 | 30 | 03-OCT-11 |
| Zirconium (Zr) | | 6.34 | 6.73 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| WG1361496-7 | DUP | WG1361496-6 | | | | | | |
| Aluminum (Al) | | 22900 | 23100 | | mg/kg | 1.2 | 40 | 03-OCT-11 |
| Antimony (Sb) | | 2.52 | 2.67 | | mg/kg | 5.8 | 30 | 03-OCT-11 |
| Arsenic (As) | | 14.4 | 14.8 | | mg/kg | 2.4 | 30 | 03-OCT-11 |
| Barium (Ba) | | 121 | 124 | | mg/kg | 2.4 | 40 | 03-OCT-11 |
| Beryllium (Be) | | 0.79 | 0.73 | | mg/kg | 8.5 | 30 | 03-OCT-11 |
| Bismuth (Bi) | | 0.215 | 0.214 | | mg/kg | 0.36 | 30 | 03-OCT-11 |
| Boron (B) | | 16.8 | 14.2 | | mg/kg | 17 | 30 | 03-OCT-11 |
| Cadmium (Cd) | | 0.918 | 0.908 | | mg/kg | 1.1 | 30 | 03-OCT-11 |
| Calcium (Ca) | | 10500 | 10100 | | mg/kg | 4.0 | 30 | 03-OCT-11 |
| Cesium (Cs) | | 2.40 | 2.36 | | mg/kg | 1.8 | 30 | 03-OCT-11 |
| Chromium (Cr) | | 56.9 | 53.5 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Cobalt (Co) | | 17.3 | 16.6 | | mg/kg | 4.2 | 30 | 03-OCT-11 |
| Copper (Cu) | | 44.9 | 44.7 | | mg/kg | 0.25 | 30 | 03-OCT-11 |



Quality Control Report

Workorder: L1062769

Report Date: 13-OCT-11

Page 5 of 9

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-7 | DUP | WG1361496-6 | | | | | | |
| Iron (Fe) | | 32300 | 33600 | | mg/kg | 3.7 | 30 | 03-OCT-11 |
| Lead (Pb) | | 14.3 | 14.5 | | mg/kg | 1.9 | 40 | 03-OCT-11 |
| Magnesium (Mg) | | 9900 | 9240 | | mg/kg | 6.8 | 30 | 03-OCT-11 |
| Manganese (Mn) | | 522 | 499 | | mg/kg | 4.4 | 30 | 03-OCT-11 |
| Molybdenum (Mo) | | 0.468 | 0.477 | | mg/kg | 2.0 | 40 | 03-OCT-11 |
| Nickel (Ni) | | 37.2 | 35.4 | | mg/kg | 4.8 | 30 | 03-OCT-11 |
| Phosphorus (P) | | 700 | 630 | | mg/kg | 11 | 30 | 03-OCT-11 |
| Potassium (K) | | 4800 | 4260 | | mg/kg | 12 | 40 | 03-OCT-11 |
| Rubidium (Rb) | | 50.2 | 48.9 | | mg/kg | 2.5 | 30 | 03-OCT-11 |
| Selenium (Se) | | 1.90 | 1.79 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Silver (Ag) | | 0.17 | 0.19 | | mg/kg | 7.1 | 40 | 03-OCT-11 |
| Sodium (Na) | | 376 | 313 | | mg/kg | 19 | 40 | 03-OCT-11 |
| Strontium (Sr) | | 34.8 | 33.9 | | mg/kg | 2.4 | 40 | 03-OCT-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 03-OCT-11 |
| Thallium (Tl) | | 0.31 | 0.31 | | mg/kg | 0.73 | 30 | 03-OCT-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Titanium (Ti) | | 1070 | 1070 | | mg/kg | 0.28 | 40 | 03-OCT-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 4.9 | 30 | 03-OCT-11 |
| Uranium (U) | | 1.24 | 1.25 | | mg/kg | 0.57 | 30 | 03-OCT-11 |
| Vanadium (V) | | 47.3 | 44.5 | | mg/kg | 6.1 | 30 | 03-OCT-11 |
| Zinc (Zn) | | 439 | 437 | | mg/kg | 0.34 | 30 | 03-OCT-11 |
| Zirconium (Zr) | | 19.0 | 19.6 | | mg/kg | 3.2 | 30 | 03-OCT-11 |
| WG1361496-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 03-OCT-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 03-OCT-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |



Quality Control Report

Workorder: L1062769

Report Date: 13-OCT-11

Page 6 of 9

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-1 | MB | | | | | | | |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 03-OCT-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 03-OCT-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 03-OCT-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 03-OCT-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 03-OCT-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 03-OCT-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| N-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264105 | | | | | | | |
| WG1360064-1 | DUP | L1062769-5 | | | | | | |
| Total Nitrogen by LECO | | 3.09 | 3.08 | J | % | 0.004 | 0.05 | 01-OCT-11 |
| WG1360064-2 | IRM | 08-109_SOIL | | | | | | |
| Total Nitrogen by LECO | | | 0.110 | | % | | 0.085-0.135 | 01-OCT-11 |
| WG1360064-3 | MB | | | | | | | |
| Total Nitrogen by LECO | | | <0.020 | | % | | 0.02 | 01-OCT-11 |
| P-SALM-ICP-SK | | | | | | | | |
| | Soil | | | | | | | |



Quality Control Report

Workorder: L1062769

Report Date: 13-OCT-11

Page 7 of 9

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|------|----------|-----------|
| P-SALM-ICP-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263935 | | | | | | | |
| WG1359961-2 CRM | | SS-1_SOIL | | | | | | |
| Phosphorus, Total | | | 1080 | | mg/kg | | 750-1530 | 04-OCT-11 |
| WG1359961-4 DUP | | L1062760-6 | | | | | | |
| Phosphorus, Total | | 426 | 441 | | mg/kg | 3.5 | 30 | 04-OCT-11 |
| WG1359961-5 DUP | | L1062732-6 | | | | | | |
| Phosphorus, Total | | 668 | 652 | | mg/kg | 2.5 | 30 | 04-OCT-11 |
| WG1359961-1 MB | | | | | | | | |
| Phosphorus, Total | | | <50 | | mg/kg | | 50 | 04-OCT-11 |
| PSA-3-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264046 | | | | | | | |
| WG1360047-1 DUP | | L1062770-1 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | 67.9 | 68.7 | J | % | 0.83 | 10 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | 9.98 | 10.3 | J | % | 0.32 | 10 | 05-OCT-11 |
| % Clay (<2um) | | 22.1 | 21.0 | J | % | 1.16 | 10 | 05-OCT-11 |
| WG1360047-2 IRM | | FARM2009 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | | 50.9 | | % | | 45-55 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | | 31.4 | | % | | 29-39 | 05-OCT-11 |
| % Clay (<2um) | | | 17.7 | | % | | 10-20 | 05-OCT-11 |

Quality Control Report

Workorder: L1062769

Report Date: 13-OCT-11

Client: AECOM Canada Ltd. (Winnipeg)
99 Commerce Drive
Winnipeg MB R3P 0Y7

Page 8 of 9

Contact: Clifton Samoiloff

Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|---|
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L1062769

Report Date: 13-OCT-11

Client: AECOM Canada Ltd. (Winnipeg)
99 Commerce Drive
Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

Page 9 of 9

Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Moisture Content | | | | | | | |
| | 1 | 17-SEP-11 10:16 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 2 | 17-SEP-11 10:28 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 3 | 17-SEP-11 10:39 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 4 | 15-SEP-11 09:58 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 5 | 15-SEP-11 10:08 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 6 | 15-SEP-11 10:14 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 7 | 13-SEP-11 15:59 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 8 | 13-SEP-11 16:33 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 9 | 13-SEP-11 16:41 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| | 1 | 17-SEP-11 10:16 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 2 | 17-SEP-11 10:28 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 3 | 17-SEP-11 10:39 | 04-OCT-11 00:00 | 14 | 17 | days | EHT |
| | 4 | 15-SEP-11 09:58 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 5 | 15-SEP-11 10:08 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 6 | 15-SEP-11 10:14 | 04-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 7 | 13-SEP-11 15:59 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 8 | 13-SEP-11 16:33 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 9 | 13-SEP-11 16:41 | 04-OCT-11 00:00 | 14 | 20 | days | EHT |
| Total Metals | | | | | | | |
| Mercury Total | | | | | | | |
| | 7 | 13-SEP-11 15:59 | 12-OCT-11 13:41 | 28 | 29 | days | EHT |
| | 8 | 13-SEP-11 16:33 | 12-OCT-11 13:41 | 28 | 29 | days | EHT |
| | 9 | 13-SEP-11 16:41 | 12-OCT-11 13:41 | 28 | 29 | 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 L1062769 were received on 23-SEP-11 15:00.

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.



Chain of Custody / Analytical Request Form
 Tada Toll Free: 1 800 668 9878
www.alsglobal.com



Report To
 Company: AECOM -W172
 Contact: Cliff Samoiloff
 Address: 99 Commerce Dr
 Phone: Fax:
 Invoice To Same as Report? Yes No
 Hardcopy of Invoice with Report? Yes No
 Company: Contact: Address: Phone: Fax:
 Lab/Work Order # (lab use only)

it / Distribution
 Other
 PDF Excel Digital Fax
 Email 1: cliff.samoiloff@aecom.com
 Email 2: shawna.kiartanson@aecom.com
 Email 3: mark.hadfield@aecom.com
 Client / Project Information
 Job #: 60213483
 PO / AFE:
 LSD:
 Quote #: Q24534
 ALS Contact:

| Sample # | Sample Identification (This description will appear on the report) | Date (dd-mm-yy) | Time (hh:mm) | Sample Type | Analysis Request | | | | | | | Number of Containers |
|----------|---|--------------------|-----------------|-------------|------------------|---------------|---------------|-----------------|------------------|----------------|--------------------------------|----------------------|
| | | | | | MOIST-SK | N-TOT-LECO-SK | P-SALM-ICP-SK | MET-200.2-MS-WP | HG-200.2-CVAF-WP | PREP-DRY/GRIND | PSA-1 (Or 3 if 1 not possible) | |
| | ANB-03A | 17-Sep-11 | 10:16 | Sediment | X | X | X | X | X | X | X | 2 |
| | ANB-03B | 17-Sep-11 | 10:28 | Sediment | X | X | X | X | X | X | X | 1 |
| | ANB-03C | 17-Sep-11 | 10:39 | Sediment | X | X | X | X | X | X | X | 1 |
| | ARL-01A | 15-Sep-11 | 9:58 | Sediment | X | X | X | X | X | X | X | 2 |
| | ARL-01B | 15-Sep-11 | 10:08 | Sediment | X | X | X | X | X | X | X | 1 |
| | ARL-01C | 15-Sep-11 | 10:14 | Sediment | X | X | X | X | X | X | X | 1 |
| | GHC-01A | 13-Sep-11 | 15:59 | Sediment | X | X | X | X | X | X | X | 2 |
| | GHC-01B | 13-Sep-11 | 16:33 | Sediment | X | X | X | X | X | X | X | 1 |
| | GHC-01C | 13-Sep-11 | 16:41 | Sediment | X | X | X | X | X | X | X | 1 |

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
 By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.
 Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

Released by: *[Signature]* Date (dd-mm-yy): 27-Sep-11 Time (hh-mm): 09:50
 Received by: *[Signature]* Date: 23-Sep-11 Time: 15:00 Temperature: 20.5°C
 SHIPMENT RECEIPTON (lab use only) 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

Date Received: 23-SEP-11
Report Date: 13-OCT-11 13:35 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062770
Project P.O. #: NOT SUBMITTED
Job Reference: 60212435
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------------|------------|-------|-------|-----------|-----------|----------|
| L1062770-1 STC-01A | | | | | | | |
| Sampled By: CLIENT on 16-SEP-11 @ 10:30 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.11 | | 0.10 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| Total Organic Carbon | 1.91 | | 0.10 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| CaCO3 Equivalent | 0.92 | | 0.70 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 2.0 | | 0.1 | % | 05-OCT-11 | 05-OCT-11 | R2264945 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 48.8 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 0.145 | | 0.020 | % | 05-OCT-11 | 05-OCT-11 | R2264945 |
| Phosphorus, Total | 516 | | 50 | mg/kg | 05-OCT-11 | 05-OCT-11 | R2263954 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 67.9 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Silt (0.05mm - 2um) | 9.98 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Clay (<2um) | 22.1 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Texture | Sandy clay loam | | | | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Metals | | | | | | | |
| Aluminum (Al) | 26500 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 3.52 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 209 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.68 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.145 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 16.8 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.172 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 8270 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 1.99 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 59.3 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 26.1 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 43.0 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 34300 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 7.52 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 10500 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 1040 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.429 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 40.4 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 470 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 4640 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 56.1 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 0.64 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.17 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 365 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 37.0 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.23 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 1120 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.109 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.24 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 60.2 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 131 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-------|-------|-----------|-----------|----------|
| L1062770-3 STC-01C Sampled By: CLIENT on 16-SEP-11 @ 09:45 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 6.34 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062770-4 STC-02A Sampled By: CLIENT on 15-SEP-11 @ 16:12 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.42 | | 0.10 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| Total Organic Carbon | 30.5 | | 0.10 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| CaCO3 Equivalent | 3.53 | | 0.70 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 30.9 | | 0.1 | % | 05-OCT-11 | 05-OCT-11 | R2264945 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 95.1 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 1.62 | | 0.020 | % | 05-OCT-11 | 05-OCT-11 | R2264945 |
| Phosphorus, Total | 697 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263935 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 8.29 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Silt (0.05mm - 2um) | 72.6 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Clay (<2um) | 19.1 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Texture | Silt loam | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Metals | | | | | | | |
| Aluminum (Al) | 4810 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 1.99 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 55.9 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.22 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.069 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 12.1 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.218 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 15300 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 0.484 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 12.6 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 5.51 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 17.6 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 6210 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 3.41 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 3040 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 179 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.431 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 12.2 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 450 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 885 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 7.65 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 0.91 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 202 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 49.6 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062770-4 STC-02A Sampled By: CLIENT on 15-SEP-11 @ 16:12 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 247 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.052 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.42 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 13.8 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 75 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 7.60 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062770-5 STC-02B Sampled By: CLIENT on 15-SEP-11 @ 16:30 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.33 | | 0.10 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| Total Organic Carbon | 39.0 | | 0.10 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| CaCO3 Equivalent | 2.76 | | 0.70 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 39.4 | | 0.1 | % | 05-OCT-11 | 05-OCT-11 | R2264945 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.057 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 91.8 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 1.95 | | 0.020 | % | 05-OCT-11 | 05-OCT-11 | R2264945 |
| Phosphorus, Total | 744 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 3430 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 1.80 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 42.5 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.12 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.048 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 11.4 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.293 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 15900 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 0.299 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 8.8 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 7.69 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 26.4 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 4110 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 2.72 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 2470 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 198 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.488 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 11.6 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 520 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 547 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 3.72 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 0.88 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 243 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 45.2 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062770-5 STC-02B Sampled By: CLIENT on 15-SEP-11 @ 16:30 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 152 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.051 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.52 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 8.37 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 142 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 4.40 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062770-6 STC-02C Sampled By: CLIENT on 15-SEP-11 @ 16:50 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.40 | | 0.10 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| Total Organic Carbon | 39.1 | | 0.10 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| CaCO3 Equivalent | 3.31 | | 0.70 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 39.5 | | 0.1 | % | 05-OCT-11 | 05-OCT-11 | R2264945 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.054 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 92.6 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 2.25 | | 0.020 | % | 05-OCT-11 | 05-OCT-11 | R2264945 |
| Phosphorus, Total | 891 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 2360 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 2.60 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 39.3 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.039 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 14.5 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.316 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 14600 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 0.244 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 6.3 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 9.02 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 31.6 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 4040 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 2.66 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 2350 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 286 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.444 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 11.0 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 730 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 661 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 3.33 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 0.78 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 213 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 42.2 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-------|-------|-----------|-----------|----------|
| L1062770-6 STC-02C | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 16:50 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 98.3 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | <0.050 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.09 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 6.16 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 183 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 2.39 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062770-7 STC-03B | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 15:10 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.28 | | 0.10 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| Total Organic Carbon | 15.9 | | 0.10 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| CaCO3 Equivalent | 2.33 | | 0.70 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 16.1 | | 0.1 | % | 05-OCT-11 | 05-OCT-11 | R2264945 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.062 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 93.5 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 1.14 | | 0.020 | % | 05-OCT-11 | 05-OCT-11 | R2264945 |
| Phosphorus, Total | 882 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 5.50 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Silt (0.05mm - 2um) | 70.8 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Clay (<2um) | 23.7 | UMI | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Texture | Silt loam | UMI | | | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Metals | | | | | | | |
| Aluminum (Al) | 18000 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 0.16 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 7.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 120 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.57 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.197 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 14.6 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 0.303 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 10600 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 1.92 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 50.4 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 15.2 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 28.2 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 36700 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 9.41 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 8090 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 524 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.489 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 34.0 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 780 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 2990 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 36.4 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 0.61 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.13 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|--------|------------|-------|-------|-----------|-----------|----------|
| L1062770-7 STC-03B | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 15:10 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Sodium (Na) | 327 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 41.4 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.22 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 852 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.167 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.73 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 38.6 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 117 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zirconium (Zr) | 15.1 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062770-8 STC-03A | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 14:50 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.16 | | 0.10 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| Total Organic Carbon | 15.3 | | 0.10 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| CaCO3 Equivalent | 1.37 | | 0.70 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 15.4 | | 0.1 | % | 05-OCT-11 | 05-OCT-11 | R2264945 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 81.5 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 1.03 | | 0.020 | % | 05-OCT-11 | 05-OCT-11 | R2264945 |
| Phosphorus, Total | 835 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 21400 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 2.85 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 135 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.63 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.152 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 9.9 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.157 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 9590 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 1.93 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 47.5 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 12.6 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 22.2 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 29600 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 7.45 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 8580 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 1120 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.186 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 28.6 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 670 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 3130 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 44.6 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | <0.50 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.15 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062770-8 STC-03A Sampled By: CLIENT on 15-SEP-11 @ 14:50 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Sodium (Na) | 313 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 78.6 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.19 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 929 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.103 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.44 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 40.1 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 79 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 20.2 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062770-9 STC-03C Sampled By: CLIENT on 15-SEP-11 @ 15:00 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.19 | | 0.10 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| Total Organic Carbon | 14.4 | | 0.10 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| CaCO3 Equivalent | 1.62 | | 0.70 | % | 06-OCT-11 | 06-OCT-11 | R2264946 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 14.6 | | 0.1 | % | 05-OCT-11 | 05-OCT-11 | R2264945 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 86.1 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 0.989 | | 0.020 | % | 05-OCT-11 | 05-OCT-11 | R2264945 |
| Phosphorus, Total | 703 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 22800 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 3.16 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 141 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.67 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.164 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 12.5 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.197 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 10700 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.10 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 51.8 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 13.5 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 24.2 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 26900 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 8.23 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 8990 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 783 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.256 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 30.5 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 710 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 3850 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 48.6 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 0.53 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.13 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

| Qualifier | Description |
|-----------|----------------------------------|
| UMI | Unreliable: Matrix interference. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

| | | | |
|----------------|------|------------------------------|----------------------|
| C-INORG-ORG-SK | Soil | Inorganic and Organic Carbon | SSSA (1996) P455-456 |
|----------------|------|------------------------------|----------------------|

When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.

Reference:

Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|---------------|------|-----------------------------------|------------------------|
| C-TOT-LECO-SK | Soil | Total Carbon by combustion method | SSSA (1996) P. 973-974 |
|---------------|------|-----------------------------------|------------------------|

The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen.

Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen.

This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference:

Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|------------------|------|---------------|----------------------|
| HG-200.2-CVAF-WP | Soil | Mercury Total | EPA 7470A Rev 1,1994 |
|------------------|------|---------------|----------------------|

A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.

| | | | |
|-----------------|------|--------|--------------------------|
| MET-200.2-MS-WP | Soil | Metals | EPA 200.8/200.2 /BCMOE-S |
|-----------------|------|--------|--------------------------|

This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements. Soil samples are dried (<60 °C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.

The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.

Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.

| | | | |
|----------|------|------------------|---------------|
| MOIST-SK | Soil | Moisture Content | ASTM D2216-80 |
|----------|------|------------------|---------------|

The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.

Reference: ASTM D2216-80

| | | | |
|---------------|------|-------------------------------------|------------------------|
| N-TOT-LECO-SK | Soil | Total Nitrogen by combustion method | SSSA (1996) p. 973-974 |
|---------------|------|-------------------------------------|------------------------|

The sample is introduced into a quartz tube where it undergoes combustion at 900 °C in the presence of oxygen.

Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen.

This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.

Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5

| | | | |
|---------------|------|------------------|-----------|
| P-SALM-ICP-SK | Soil | Total Phosphorus | EPA 200.2 |
|---------------|------|------------------|-----------|

This analysis is carried out using procedures from CSR Analytical Method: "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, 26 June 2009, and procedures adapted from EPA Method 200.2. The sample is dried at 40 °C, then ground to < 2 mm particle size using a stainless steel flail grinder. A representative portion is digested with concentrated nitric and hydrochloric acids for 2 hours in an open vessel digester at 95 degrees. Instrumental analysis of the digested extract is by ICP-OES.

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|--|---------------------------------|
| PSA-3-SK | Soil | Particle size - Pipette removal OM & CO3 | Forestry Canada (1991) p. 46-53 |

Dry, < 2 mm soil is treated hydrochloric acid to remove carbonates, then hydrogen peroxide to remove organic matter. The remaining soil is treated with sodium hexametaphosphate to ensure complete dispersion of primary soil particles. The homogenized suspension is allowed to settle in accordance with Stoke's Law so that only clay particles remain in suspension. To determine the clay fraction, an aliquot of the clay suspension is removed, then dried and weighed. The sand fraction is determined by wet sieving the remaining suspension, then drying and weighing the sand retained on the sieve. The silt fraction is determined by calculation where % Silt = 100 - (%Sand+%Clay)

Reference:

Burt, R. (2009). Soil Survey Field and Laboratory Methods Manual. Soil Survey Investigations Report No. 5. Method 3.2.1.2.2. United States Department of Agriculture Natural Resources Conservation Service.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| SK | ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA |
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1062770

Report Date: 13-OCT-11

Page 1 of 16

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|--------|-----------|-------|------|-----------|-----------|
| C-INORG-ORG-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264946 | | | | | | | |
| WG1360098-1 | DUP | L1062770-9 | | | | | | |
| Inorganic Carbon | | 0.19 | 0.19 | | % | 2.4 | 30 | 06-OCT-11 |
| CaCO3 Equivalent | | 1.62 | 1.58 | | % | 2.4 | 25 | 06-OCT-11 |
| WG1360098-2 | IRM | 0.4%IC | | | | | | |
| Inorganic Carbon | | | 0.37 | | % | | 0.28-0.52 | 06-OCT-11 |
| CaCO3 Equivalent | | | 3.12 | | % | | 2.33-4.33 | 06-OCT-11 |
| WG1360098-3 | MB | | | | | | | |
| Inorganic Carbon | | | <0.10 | | % | | 0.1 | 06-OCT-11 |
| CaCO3 Equivalent | | | <0.70 | | % | | 1 | 06-OCT-11 |
| C-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264945 | | | | | | | |
| WG1360067-1 | DUP | L1062770-1 | | | | | | |
| Total Carbon by Combustion | | 2.0 | 2.0 | | % | 3.1 | 10 | 05-OCT-11 |
| WG1360067-2 | IRM | 08-109_SOIL | | | | | | |
| Total Carbon by Combustion | | | 1.5 | | % | | 1.1-1.7 | 05-OCT-11 |
| WG1360067-3 | MB | | | | | | | |
| Total Carbon by Combustion | | | <0.1 | | % | | 0.1 | 05-OCT-11 |
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2266580 | | | | | | | |
| WG1364408-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 109 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 101 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-4 | DUP | L1062760-5 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 06-OCT-11 |
| WG1364408-5 | DUP | L1062716-9 | | | | | | |
| Mercury (Hg)-Total | | 0.066 | 0.078 | | mg/kg | 16 | 40 | 06-OCT-11 |
| WG1364408-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 06-OCT-11 |
| Batch | R2268035 | | | | | | | |
| WG1367486-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 112 | | % | | 70-130 | 12-OCT-11 |
| WG1367486-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 87 | | % | | 70-130 | 12-OCT-11 |
| WG1367486-4 | DUP | L1062769-1 | | | | | | |
| Mercury (Hg)-Total | | 0.057 | 0.057 | | mg/kg | 0.53 | 40 | 12-OCT-11 |
| WG1367486-5 | DUP | L1062770-3 | | | | | | |



Quality Control Report

Workorder: L1062770

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2268035 | | | | | | | |
| WG1367486-5 | DUP | L1062770-3 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 12-OCT-11 |
| WG1367486-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 12-OCT-11 |
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 113 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 93 | | % | | 70-130 | 29-SEP-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 105 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 89 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Titanium (Ti) | | | 112 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |



Quality Control Report

Workorder: L1062770

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |
| Aluminum (Al) | | | 73 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 86 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 106 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 123 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 85 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 87 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 79 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 75 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Aluminum (Al) | | 6440 | 6690 | | mg/kg | 3.8 | 40 | 29-SEP-11 |
| Arsenic (As) | | 7.64 | 7.96 | | mg/kg | 4.1 | 30 | 29-SEP-11 |
| Barium (Ba) | | 60.5 | 65.4 | | mg/kg | 7.8 | 40 | 29-SEP-11 |
| Bismuth (Bi) | | 0.087 | 0.075 | | mg/kg | 15 | 30 | 29-SEP-11 |
| Boron (B) | | 2.8 | 3.4 | | mg/kg | 20 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 4.76 | 4.86 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 3140 | 3540 | | mg/kg | 12 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062770

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Cesium (Cs) | | 0.407 | 0.423 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 11.8 | 13.2 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 117 | 136 | | mg/kg | 16 | 30 | 29-SEP-11 |
| Copper (Cu) | | 427 | 462 | | mg/kg | 8.0 | 30 | 29-SEP-11 |
| Iron (Fe) | | 25800 | 25200 | | mg/kg | 2.3 | 30 | 29-SEP-11 |
| Lead (Pb) | | 10.9 | 9.63 | | mg/kg | 13 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 1760 | 1940 | | mg/kg | 9.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 105 | 126 | | mg/kg | 18 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.764 | 0.848 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 38.4 | 43.2 | | mg/kg | 12 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 510 | 530 | | mg/kg | 3.9 | 30 | 29-SEP-11 |
| Potassium (K) | | 575 | 595 | | mg/kg | 3.4 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 4.56 | 5.53 | | mg/kg | 19 | 30 | 29-SEP-11 |
| Selenium (Se) | | 2.66 | 2.73 | | mg/kg | 2.9 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.14 | 0.15 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Sodium (Na) | | 231 | 282 | | mg/kg | 20 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 9.69 | 12.1 | | mg/kg | 22 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 187 | 200 | | mg/kg | 6.5 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.090 | 0.084 | | mg/kg | 6.8 | 30 | 29-SEP-11 |
| Uranium (U) | | 0.613 | 0.563 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 17.3 | 19.1 | | mg/kg | 9.9 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 4890 | 5140 | | mg/kg | 5.1 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 2.82 | 3.07 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Aluminum (Al) | | 30500 | 29800 | | mg/kg | 2.1 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 3.19 | 3.15 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.15 | | mg/kg | 3.3 | 30 | 29-SEP-11 |
| Barium (Ba) | | 133 | 130 | | mg/kg | 2.8 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.86 | 0.88 | | mg/kg | 2.8 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.189 | 0.177 | | mg/kg | 6.4 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062770

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Boron (B) | | 14.7 | 15.0 | | mg/kg | 2.1 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.574 | 0.513 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 9960 | 9830 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 2.47 | 2.43 | | mg/kg | 1.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 72.9 | 73.2 | | mg/kg | 0.35 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.9 | 19.3 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Copper (Cu) | | 43.9 | 43.0 | | mg/kg | 2.2 | 30 | 29-SEP-11 |
| Iron (Fe) | | 37500 | 38900 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Lead (Pb) | | 14.9 | 13.6 | | mg/kg | 9.6 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 12800 | 12900 | | mg/kg | 0.32 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 454 | 448 | | mg/kg | 1.4 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.327 | 0.330 | | mg/kg | 1.1 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 45.7 | 44.9 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 500 | 500 | | mg/kg | 1.0 | 30 | 29-SEP-11 |
| Potassium (K) | | 5850 | 5880 | | mg/kg | 0.64 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 67.7 | 66.9 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.54 | 1.43 | | mg/kg | 7.3 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.18 | 0.19 | | mg/kg | 4.7 | 40 | 29-SEP-11 |
| Sodium (Na) | | 436 | 468 | | mg/kg | 7.0 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 38.3 | 38.7 | | mg/kg | 0.94 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.32 | 0.29 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 1320 | 1330 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 5.2 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.32 | 1.24 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 65.6 | 66.1 | | mg/kg | 0.83 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 670 | 660 | | mg/kg | 1.6 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 24.9 | 26.4 | | mg/kg | 5.6 | 30 | 29-SEP-11 |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Aluminum (Al) | | 21900 | 21200 | | mg/kg | 3.3 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 4.10 | 4.16 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.43 | | mg/kg | 0.32 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062770

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Barium (Ba) | | 111 | 110 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.59 | 0.54 | | mg/kg | 9.6 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.140 | 0.144 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Boron (B) | | 18.9 | 17.5 | | mg/kg | 7.9 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.714 | 0.714 | | mg/kg | 0.020 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 13400 | 13200 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 1.97 | 1.90 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 55.1 | 53.0 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.3 | 18.5 | | mg/kg | 4.0 | 30 | 29-SEP-11 |
| Copper (Cu) | | 41.0 | 40.9 | | mg/kg | 0.23 | 30 | 29-SEP-11 |
| Iron (Fe) | | 28200 | 29200 | | mg/kg | 3.4 | 30 | 29-SEP-11 |
| Lead (Pb) | | 9.92 | 10.5 | | mg/kg | 6.1 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 9610 | 9490 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 701 | 656 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.532 | 0.535 | | mg/kg | 0.44 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 33.0 | 32.7 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 620 | 620 | | mg/kg | 0.48 | 30 | 29-SEP-11 |
| Potassium (K) | | 4260 | 4280 | | mg/kg | 0.47 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 51.8 | 48.3 | | mg/kg | 7.1 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.88 | 1.90 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.15 | 0.16 | | mg/kg | 7.2 | 40 | 29-SEP-11 |
| Sodium (Na) | | 351 | 354 | | mg/kg | 0.81 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 45.8 | 42.9 | | mg/kg | 6.7 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.23 | 0.24 | | mg/kg | 4.7 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 955 | 979 | | mg/kg | 2.6 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.112 | 0.125 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.31 | 1.33 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 48.8 | 48.5 | | mg/kg | 0.73 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 405 | 413 | | mg/kg | 2.0 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 20.1 | 20.1 | | mg/kg | 0.13 | 30 | 29-SEP-11 |
| WG1359420-1 | MB | | | | | | | |



Quality Control Report

Workorder: L1062770

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 29-SEP-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 29-SEP-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |



Quality Control Report

Workorder: L1062770

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Batch | R2262894 | | | | | | | |
| WG1361496-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Antimony (Sb) | | | 119 | | % | | 70-130 | 03-OCT-11 |
| Arsenic (As) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Barium (Ba) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Beryllium (Be) | | | 80 | | % | | 70-130 | 03-OCT-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Cadmium (Cd) | | | 94 | | % | | 70-130 | 03-OCT-11 |
| Calcium (Ca) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Chromium (Cr) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Cobalt (Co) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Copper (Cu) | | | 100 | | % | | 70-130 | 03-OCT-11 |
| Iron (Fe) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Lead (Pb) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| Magnesium (Mg) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Manganese (Mn) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Molybdenum (Mo) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Nickel (Ni) | | | 94 | | % | | 70-130 | 03-OCT-11 |
| Phosphorus (P) | | | 87 | | % | | 70-130 | 03-OCT-11 |
| Potassium (K) | | | 82 | | % | | 70-130 | 03-OCT-11 |
| Silver (Ag) | | | 97 | | % | | 70-130 | 03-OCT-11 |
| Sodium (Na) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Strontium (Sr) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| Thallium (Tl) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Tin (Sn) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Titanium (Ti) | | | 102 | | % | | 70-130 | 03-OCT-11 |
| Uranium (U) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Vanadium (V) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Zinc (Zn) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| WG1361496-3 | CRM | NRC MESS-3 | | | | | | |
| Antimony (Sb) | | | 93 | | % | | 70-130 | 03-OCT-11 |



Quality Control Report

Workorder: L1062770

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-3 | CRM | NRC MESS-3 | | | | | | |
| Arsenic (As) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Barium (Ba) | | | 103 | | % | | 70-130 | 03-OCT-11 |
| Beryllium (Be) | | | 72 | | % | | 70-130 | 03-OCT-11 |
| Cadmium (Cd) | | | 83 | | % | | 70-130 | 03-OCT-11 |
| Calcium (Ca) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Chromium (Cr) | | | 78 | | % | | 70-130 | 03-OCT-11 |
| Cobalt (Co) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Copper (Cu) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Iron (Fe) | | | 103 | | % | | 70-130 | 03-OCT-11 |
| Lead (Pb) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Magnesium (Mg) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Manganese (Mn) | | | 111 | | % | | 70-130 | 03-OCT-11 |
| Molybdenum (Mo) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Nickel (Ni) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Phosphorus (P) | | | 81 | | % | | 70-130 | 03-OCT-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 03-OCT-11 |
| Selenium (Se) | | | 118 | | % | | 70-130 | 03-OCT-11 |
| Silver (Ag) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Sodium (Na) | | | 101 | | % | | 70-130 | 03-OCT-11 |
| Strontium (Sr) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Tin (Sn) | | | 73 | | % | | 70-130 | 03-OCT-11 |
| Uranium (U) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Vanadium (V) | | | 74 | | % | | 70-130 | 03-OCT-11 |
| Zinc (Zn) | | | 95 | | % | | 70-130 | 03-OCT-11 |
| WG1361496-5 | DUP | WG1361496-4 | | | | | | |
| Aluminum (Al) | | 19900 | 17700 | | mg/kg | 12 | 40 | 03-OCT-11 |
| Antimony (Sb) | | 0.15 | 0.16 | | mg/kg | 4.1 | 30 | 03-OCT-11 |
| Arsenic (As) | | 14.8 | 14.0 | | mg/kg | 5.6 | 30 | 03-OCT-11 |
| Barium (Ba) | | 175 | 166 | | mg/kg | 5.3 | 40 | 03-OCT-11 |
| Beryllium (Be) | | 0.47 | 0.55 | | mg/kg | 16 | 30 | 03-OCT-11 |
| Bismuth (Bi) | | 0.097 | 0.102 | | mg/kg | 4.5 | 30 | 03-OCT-11 |
| Boron (B) | | 22.8 | 18.7 | | mg/kg | 19 | 30 | 03-OCT-11 |
| Cadmium (Cd) | | 1.30 | 1.22 | | mg/kg | 6.0 | 30 | 03-OCT-11 |



Quality Control Report

Workorder: L1062770

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-5 | DUP | WG1361496-4 | | | | | | |
| Calcium (Ca) | | 11700 | 10400 | | mg/kg | 12 | 30 | 03-OCT-11 |
| Cesium (Cs) | | 1.46 | 1.30 | | mg/kg | 12 | 30 | 03-OCT-11 |
| Chromium (Cr) | | 82.9 | 77.4 | | mg/kg | 6.9 | 30 | 03-OCT-11 |
| Cobalt (Co) | | 158 | 150 | | mg/kg | 5.5 | 30 | 03-OCT-11 |
| Copper (Cu) | | 271 | 263 | | mg/kg | 3.1 | 30 | 03-OCT-11 |
| Iron (Fe) | | 29800 | 28100 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Lead (Pb) | | 6.94 | 6.65 | | mg/kg | 4.3 | 40 | 03-OCT-11 |
| Magnesium (Mg) | | 7780 | 7350 | | mg/kg | 5.6 | 30 | 03-OCT-11 |
| Manganese (Mn) | | 3540 | 3320 | | mg/kg | 6.2 | 30 | 03-OCT-11 |
| Molybdenum (Mo) | | 0.722 | 0.786 | | mg/kg | 8.6 | 40 | 03-OCT-11 |
| Nickel (Ni) | | 59.0 | 55.6 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Phosphorus (P) | | 570 | 510 | | mg/kg | 9.7 | 30 | 03-OCT-11 |
| Potassium (K) | | 3490 | 2930 | | mg/kg | 17 | 40 | 03-OCT-11 |
| Rubidium (Rb) | | 34.6 | 31.3 | | mg/kg | 9.9 | 30 | 03-OCT-11 |
| Selenium (Se) | | 0.95 | 0.85 | | mg/kg | 11 | 30 | 03-OCT-11 |
| Silver (Ag) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Sodium (Na) | | 248 | 211 | | mg/kg | 16 | 40 | 03-OCT-11 |
| Strontium (Sr) | | 40.1 | 36.7 | | mg/kg | 8.9 | 40 | 03-OCT-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 03-OCT-11 |
| Thallium (Tl) | | 0.18 | 0.16 | | mg/kg | 7.3 | 30 | 03-OCT-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Titanium (Ti) | | 790 | 681 | | mg/kg | 15 | 40 | 03-OCT-11 |
| Tungsten (W) | | 0.149 | 0.153 | | mg/kg | 2.2 | 30 | 03-OCT-11 |
| Uranium (U) | | 1.51 | 1.39 | | mg/kg | 8.1 | 30 | 03-OCT-11 |
| Vanadium (V) | | 41.9 | 36.7 | | mg/kg | 13 | 30 | 03-OCT-11 |
| Zinc (Zn) | | 1080 | 1040 | | mg/kg | 3.7 | 30 | 03-OCT-11 |
| Zirconium (Zr) | | 6.34 | 6.73 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| WG1361496-7 | DUP | WG1361496-6 | | | | | | |
| Aluminum (Al) | | 22900 | 23100 | | mg/kg | 1.2 | 40 | 03-OCT-11 |
| Antimony (Sb) | | 2.52 | 2.67 | | mg/kg | 5.8 | 30 | 03-OCT-11 |
| Arsenic (As) | | 14.4 | 14.8 | | mg/kg | 2.4 | 30 | 03-OCT-11 |
| Barium (Ba) | | 121 | 124 | | mg/kg | 2.4 | 40 | 03-OCT-11 |
| Beryllium (Be) | | 0.79 | 0.73 | | mg/kg | 8.5 | 30 | 03-OCT-11 |



Quality Control Report

Workorder: L1062770

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-7 | DUP | WG1361496-6 | | | | | | |
| Bismuth (Bi) | | 0.215 | 0.214 | | mg/kg | 0.36 | 30 | 03-OCT-11 |
| Boron (B) | | 16.8 | 14.2 | | mg/kg | 17 | 30 | 03-OCT-11 |
| Cadmium (Cd) | | 0.918 | 0.908 | | mg/kg | 1.1 | 30 | 03-OCT-11 |
| Calcium (Ca) | | 10500 | 10100 | | mg/kg | 4.0 | 30 | 03-OCT-11 |
| Cesium (Cs) | | 2.40 | 2.36 | | mg/kg | 1.8 | 30 | 03-OCT-11 |
| Chromium (Cr) | | 56.9 | 53.5 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Cobalt (Co) | | 17.3 | 16.6 | | mg/kg | 4.2 | 30 | 03-OCT-11 |
| Copper (Cu) | | 44.9 | 44.7 | | mg/kg | 0.25 | 30 | 03-OCT-11 |
| Iron (Fe) | | 32300 | 33600 | | mg/kg | 3.7 | 30 | 03-OCT-11 |
| Lead (Pb) | | 14.3 | 14.5 | | mg/kg | 1.9 | 40 | 03-OCT-11 |
| Magnesium (Mg) | | 9900 | 9240 | | mg/kg | 6.8 | 30 | 03-OCT-11 |
| Manganese (Mn) | | 522 | 499 | | mg/kg | 4.4 | 30 | 03-OCT-11 |
| Molybdenum (Mo) | | 0.468 | 0.477 | | mg/kg | 2.0 | 40 | 03-OCT-11 |
| Nickel (Ni) | | 37.2 | 35.4 | | mg/kg | 4.8 | 30 | 03-OCT-11 |
| Phosphorus (P) | | 700 | 630 | | mg/kg | 11 | 30 | 03-OCT-11 |
| Potassium (K) | | 4800 | 4260 | | mg/kg | 12 | 40 | 03-OCT-11 |
| Rubidium (Rb) | | 50.2 | 48.9 | | mg/kg | 2.5 | 30 | 03-OCT-11 |
| Selenium (Se) | | 1.90 | 1.79 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Silver (Ag) | | 0.17 | 0.19 | | mg/kg | 7.1 | 40 | 03-OCT-11 |
| Sodium (Na) | | 376 | 313 | | mg/kg | 19 | 40 | 03-OCT-11 |
| Strontium (Sr) | | 34.8 | 33.9 | | mg/kg | 2.4 | 40 | 03-OCT-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 03-OCT-11 |
| Thallium (Tl) | | 0.31 | 0.31 | | mg/kg | 0.73 | 30 | 03-OCT-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Titanium (Ti) | | 1070 | 1070 | | mg/kg | 0.28 | 40 | 03-OCT-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 4.9 | 30 | 03-OCT-11 |
| Uranium (U) | | 1.24 | 1.25 | | mg/kg | 0.57 | 30 | 03-OCT-11 |
| Vanadium (V) | | 47.3 | 44.5 | | mg/kg | 6.1 | 30 | 03-OCT-11 |
| Zinc (Zn) | | 439 | 437 | | mg/kg | 0.34 | 30 | 03-OCT-11 |
| Zirconium (Zr) | | 19.0 | 19.6 | | mg/kg | 3.2 | 30 | 03-OCT-11 |
| WG1361496-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 03-OCT-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |



Quality Control Report

Workorder: L1062770

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-1 | MB | | | | | | | |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 03-OCT-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 03-OCT-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 03-OCT-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 03-OCT-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 03-OCT-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 03-OCT-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 03-OCT-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |



Quality Control Report

Workorder: L1062770

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------------|-----------|
| N-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264945 | | | | | | | |
| WG1360067-1 | DUP | L1062770-1 | | | | | | |
| Total Nitrogen by LECO | | 0.145 | 0.144 | J | % | 0.001 | 0.05 | 05-OCT-11 |
| WG1360067-2 | IRM | 08-109_SOIL | | | | | | |
| Total Nitrogen by LECO | | | 0.111 | | % | | 0.085-0.135 | 05-OCT-11 |
| WG1360067-3 | MB | | | | | | | |
| Total Nitrogen by LECO | | | <0.020 | | % | | 0.02 | 05-OCT-11 |
| P-SALM-ICP-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263655 | | | | | | | |
| WG1359965-2 | CRM | SS-1_SOIL | | | | | | |
| Phosphorus, Total | | | 1100 | | mg/kg | | 750-1530 | 04-OCT-11 |
| WG1359965-3 | DUP | L1062761-6 | | | | | | |
| Phosphorus, Total | | 1160 | 1140 | | mg/kg | 1.5 | 30 | 04-OCT-11 |
| WG1359965-5 | DUP | L1062767-9 | | | | | | |
| Phosphorus, Total | | 520 | 535 | | mg/kg | 2.8 | 30 | 04-OCT-11 |
| WG1359965-1 | MB | | | | | | | |
| Phosphorus, Total | | | <50 | | mg/kg | | 50 | 04-OCT-11 |
| Batch | R2263935 | | | | | | | |
| WG1359961-2 | CRM | SS-1_SOIL | | | | | | |
| Phosphorus, Total | | | 1080 | | mg/kg | | 750-1530 | 04-OCT-11 |
| WG1359961-4 | DUP | L1062760-6 | | | | | | |
| Phosphorus, Total | | 426 | 441 | | mg/kg | 3.5 | 30 | 04-OCT-11 |
| WG1359961-5 | DUP | L1062732-6 | | | | | | |
| Phosphorus, Total | | 668 | 652 | | mg/kg | 2.5 | 30 | 04-OCT-11 |
| WG1359961-1 | MB | | | | | | | |
| Phosphorus, Total | | | <50 | | mg/kg | | 50 | 04-OCT-11 |
| Batch | R2263954 | | | | | | | |
| WG1361197-2 | CRM | SS-1_SOIL | | | | | | |
| Phosphorus, Total | | | 1100 | | mg/kg | | 750-1530 | 05-OCT-11 |
| WG1361197-3 | DUP | L1066261-1 | | | | | | |
| Phosphorus, Total | | 467 | 461 | | mg/kg | 1.1 | 30 | 05-OCT-11 |
| WG1361197-1 | MB | | | | | | | |
| Phosphorus, Total | | | <50 | | mg/kg | | 50 | 05-OCT-11 |
| PSA-3-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264046 | | | | | | | |
| WG1360047-1 | DUP | L1062770-1 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | 67.9 | 68.7 | J | % | 0.83 | 10 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | 9.98 | 10.3 | J | % | 0.32 | 10 | 05-OCT-11 |



Quality Control Report

Workorder: L1062770

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|------|-------|-----------|
| PSA-3-SK | Soil | | | | | | | |
| Batch | R2264046 | | | | | | | |
| WG1360047-1 | DUP | L1062770-1 | | | | | | |
| % Clay (<2um) | | 22.1 | 21.0 | J | % | 1.16 | 10 | 05-OCT-11 |
| WG1360047-2 | IRM | FARM2009 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | | 50.9 | | % | | 45-55 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | | 31.4 | | % | | 29-39 | 05-OCT-11 |
| % Clay (<2um) | | | 17.7 | | % | | 10-20 | 05-OCT-11 |

Quality Control Report

Workorder: L1062770

Report Date: 13-OCT-11

Client: AECOM Canada Ltd. (Winnipeg)
99 Commerce Drive
Winnipeg MB R3P 0Y7
Contact: Clifton Samoiloff

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Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|---|
| 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: L1062770

Report Date: 13-OCT-11

Client: AECOM Canada Ltd. (Winnipeg)
99 Commerce Drive
Winnipeg MB R3P 0Y7
Contact: Clifton Samoiloff

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Moisture Content | | | | | | | |
| | 1 | 16-SEP-11 10:30 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 2 | 16-SEP-11 10:10 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 3 | 16-SEP-11 09:45 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 4 | 15-SEP-11 16:12 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 5 | 15-SEP-11 16:30 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 6 | 15-SEP-11 16:50 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 7 | 15-SEP-11 15:10 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 8 | 15-SEP-11 14:50 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 9 | 15-SEP-11 15:00 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| | 1 | 16-SEP-11 10:30 | 06-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 2 | 16-SEP-11 10:10 | 06-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 3 | 16-SEP-11 09:45 | 06-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 4 | 15-SEP-11 16:12 | 06-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 5 | 15-SEP-11 16:30 | 06-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 6 | 15-SEP-11 16:50 | 06-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 7 | 15-SEP-11 15:10 | 06-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 8 | 15-SEP-11 14:50 | 06-OCT-11 00:00 | 14 | 20 | days | EHT |
| | 9 | 15-SEP-11 15:00 | 06-OCT-11 00:00 | 14 | 20 | 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 L1062770 were received on 23-SEP-11 15:00.

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.



istody / Analytical Request Form
 la Toll Free: 1 800 668 9878
 www.alsglobal.com

COC # 17

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| | | | | | | | |
|---|---------|---|-----------|--|-------|---|-------------|
| Report To | | Distribution | | Service Requested (Rush for routine analysis subject to availability) | | | |
| Company: AECOM -W172 | | <input type="checkbox"/> Standard <input type="checkbox"/> Other <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Digital <input type="checkbox"/> Fax | | <input checked="" type="radio"/> Regular (Standard Turnaround Times - Business Days) <input type="radio"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT <input type="radio"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT | | | |
| Contact: Cliff Samoiloff | | Email 1: cliff.samoiloff@aecom.com | | Analysis Request | | | |
| Address: 99 Commerce Dr | | Email 2: shawna.kiantanson@aecom.com | | Please indicate below Filtered, Preserved or both (F, P, F/P) | | | |
| Phone: | | Email 3: mark.hadfield@aecom.com | | C-TOT-ORG-SK | | | |
| Invoice To Same as Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Client / Project Information | | MOIST-SK | | | |
| Hardcopy of Invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No | | Job #: 60212435 | | P-SALM-ICP-SK | | | |
| Company: | | PO / AFE: | | MET-200.2-MS-WP | | | |
| Contact: | | LSD: | | HG-200.2-CVAF-WP | | | |
| Address: | | Quote #: Q24534 | | PREP-DRY/GRIND | | | |
| Phone: | | ALS Contact: | | PSA-1 (Or 3 if 1 not possible) | | | |
| Lab/Work Order # (lab use only) | | Sample Identification | | Number of Containers | | | |
| | | (This description will appear on the report) | | | | | |
| Sample # | STC-01A | Date (dd-mm-yy) | 16-Sep-11 | Time (hh:mm) | 10:30 | Sediment | Sample Type |
| | STC-01B | | 16-Sep-11 | | 10:10 | Sediment | |
| | STC-01C | | 16-Sep-11 | | 9:45 | Sediment | |
| | STC-02A | | 15-Sep-11 | | 16:12 | Sediment | |
| | STC-02B | | 15-Sep-11 | | 16:30 | Sediment | |
| | STC-02C | | 15-Sep-11 | | 16:50 | Sediment | |
| | STC-03B | | 15-Sep-11 | | 15:10 | Sediment | |
| | STC-03A | | 15-Sep-11 | | 14:50 | Sediment | |
| | STC-03C | | 15-Sep-11 | | 15:00 | Sediment | |
| Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/IAB Tier 1 - Natural, etc) / Hazardous Details | | | | | | | |
| Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. | | | | | | | |
| By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab. | | | | | | | |
| Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses. | | | | | | | |
| Released by: <i>[Signature]</i> | | Date (dd-mm-yy): 23-Sep-11 | | Time (hh-mm): 10:09 | | Received by: <i>[Signature]</i> | |
| | | Date: 23-Sep-11 | | Time: 15:00 | | Temperature: 20.4 °C | |
| | | Date: 23-Sep-11 | | Time: 15:00 | | Verified by: <i>[Signature]</i> | |
| | | Date: 23-Sep-11 | | Time: 15:00 | | Date: 23-Sep-11 | |
| | | Date: 23-Sep-11 | | Time: 15:00 | | Time: 15:00 | |
| | | Date: 23-Sep-11 | | Time: 15:00 | | Observations: Yes / No ? If Yes add SIF | |



AECOM Canada Ltd. (Winnipeg)
ATTN: Clifton Samoiloff
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 23-SEP-11
Report Date: 13-OCT-11 13:36 (MT)
Version: FINAL

Client Phone: 204-928-7427

Certificate of Analysis

Lab Work Order #: L1062772
Project P.O. #: NOT SUBMITTED
Job Reference: 60213483
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|-------|-------|-----------|-----------|----------|
| L1062772-1 ANB-01A | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 14:16 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.18 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Organic Carbon | 17.2 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| CaCO3 Equivalent | 1.50 | | 0.70 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 17.4 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 89.3 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 1.33 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Phosphorus, Total | 760 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 1.84 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Silt (0.05mm - 2um) | 75.2 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Clay (<2um) | 23.0 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Texture | Silt loam | | | | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Metals | | | | | | | |
| Aluminum (Al) | 18900 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 10.9 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 13.8 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 96.0 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.59 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.155 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 19.2 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 1.11 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 15500 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 1.72 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 52.2 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 16.0 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 54.5 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 25900 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 11.3 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 8820 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 477 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.743 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 32.8 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 740 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 4180 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 36.0 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 3.72 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.13 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 390 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 40.7 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.32 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 818 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.185 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.41 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 41.0 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 781 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062772-1 ANB-01A Sampled By: CLIENT on 15-SEP-11 @ 14:16 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 14.5 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062772-2 ANB-01B Sampled By: CLIENT on 15-SEP-11 @ 14:28 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.20 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Organic Carbon | 15.9 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| CaCO3 Equivalent | 1.69 | | 0.70 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 16.1 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 12-OCT-11 | 12-OCT-11 | R2268035 |
| % Moisture | 90.6 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 1.35 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Phosphorus, Total | 764 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 20000 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Antimony (Sb) | 12.4 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Arsenic (As) | 16.1 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Barium (Ba) | 102 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Beryllium (Be) | 0.62 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Bismuth (Bi) | 0.156 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Boron (B) | 22.8 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cadmium (Cd) | 1.17 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Calcium (Ca) | 15100 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cesium (Cs) | 1.88 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Chromium (Cr) | 58.7 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Cobalt (Co) | 16.8 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Copper (Cu) | 57.3 | | 1.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Iron (Fe) | 28200 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Lead (Pb) | 11.4 | | 0.20 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Magnesium (Mg) | 8930 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Manganese (Mn) | 532 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Molybdenum (Mo) | 0.843 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Nickel (Ni) | 36.4 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Phosphorus (P) | 760 | | 100 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Potassium (K) | 4220 | | 25 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Rubidium (Rb) | 39.8 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Selenium (Se) | 3.84 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Silver (Ag) | 0.14 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Sodium (Na) | 387 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Strontium (Sr) | 40.7 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Thallium (Tl) | 0.33 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Titanium (Ti) | 935 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Tungsten (W) | 0.202 | | 0.050 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Uranium (U) | 1.42 | | 0.020 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Vanadium (V) | 43.7 | | 0.50 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| Zinc (Zn) | 848 | | 10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062772-2 ANB-01B Sampled By: CLIENT on 15-SEP-11 @ 14:28 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 14.8 | | 0.10 | mg/kg | 03-OCT-11 | 03-OCT-11 | R2262894 |
| L1062772-3 ANB-01C Sampled By: CLIENT on 15-SEP-11 @ 14:40 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.12 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Organic Carbon | 13.6 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| CaCO3 Equivalent | 1.03 | | 0.70 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 13.7 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | <0.050 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 77.2 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 1.13 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Phosphorus, Total | 617 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 21900 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 4.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 9.46 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 111 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.59 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.140 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 18.9 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.714 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 13400 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 1.97 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 55.1 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 19.3 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 41.0 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 28200 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 9.92 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 9610 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 701 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.532 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 33.0 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 620 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 4260 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 51.8 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 1.88 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.15 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 351 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 45.8 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.23 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 955 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.112 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.31 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 48.8 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 405 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------------|------------|-------|-------|-----------|-----------|----------|
| L1062772-3 ANB-01C Sampled By: CLIENT on 15-SEP-11 @ 14:40 Matrix: SEDIMENT | | | | | | | |
| Metals Zirconium (Zr) | 20.1 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062772-4 ANB-02A Sampled By: CLIENT on 15-SEP-11 @ 15:02 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | <0.10 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Organic Carbon | 13.4 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| CaCO3 Equivalent | 0.81 | | 0.70 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 13.4 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.063 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 93.4 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 1.36 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Phosphorus, Total | 737 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 1.19 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Silt (0.05mm - 2um) | 60.6 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Clay (<2um) | 38.2 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Texture | Silty clay loam | | | | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Metals | | | | | | | |
| Aluminum (Al) | 26900 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 2.87 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 16.3 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 151 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.81 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.198 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 19.4 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.810 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 11400 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.68 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 65.5 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 20.4 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 49.0 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 35100 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 13.0 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 10800 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 811 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.622 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 44.6 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 710 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 5260 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 67.4 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 1.89 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.17 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 423 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 45.4 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.29 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062772-4 ANB-02A Sampled By: CLIENT on 15-SEP-11 @ 15:02 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 1220 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.135 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.32 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 56.6 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 400 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 20.8 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062772-5 ANB-02B Sampled By: CLIENT on 15-SEP-11 @ 15:20 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.11 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Organic Carbon | 14.2 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| CaCO3 Equivalent | 0.88 | | 0.70 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 14.4 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.072 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 93.8 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 1.48 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Phosphorus, Total | 835 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 25300 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 5.26 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 18.5 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 137 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.71 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.190 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 32.7 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 1.49 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 12500 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.42 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 62.4 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 28.5 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 62.8 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 33300 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 15.1 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 10400 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 880 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.729 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 43.2 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 850 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 5220 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 61.4 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 3.03 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.15 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 460 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 44.7 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.32 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062772-5 ANB-02B Sampled By: CLIENT on 15-SEP-11 @ 15:20 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 1030 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.140 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.22 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 54.3 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 851 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 14.7 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062772-6 ANB-02C Sampled By: CLIENT on 15-SEP-11 @ 15:30 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.10 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Organic Carbon | 13.1 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| CaCO3 Equivalent | 0.86 | | 0.70 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 13.2 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.061 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 91.2 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 1.41 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Phosphorus, Total | 751 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 26500 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 3.27 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 17.0 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 145 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.75 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.211 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 21.7 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 1.05 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 11900 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.62 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 65.8 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 22.1 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 172 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 35600 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 15.5 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 11100 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 776 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.686 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 53.8 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 750 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 5290 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 65.6 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 2.18 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.17 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Sodium (Na) | 407 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 41.4 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.31 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------------|------------|-------|-------|-----------|-----------|----------|
| L1062772-6 ANB-02C Sampled By: CLIENT on 15-SEP-11 @ 15:30 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Titanium (Ti) | 1150 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.138 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.29 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 57.2 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 685 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 19.7 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062772-7 ANB-05A Sampled By: CLIENT on 15-SEP-11 @ 16:20 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | <0.10 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Organic Carbon | 11.2 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| CaCO3 Equivalent | <0.70 | | 0.70 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 11.2 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.058 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 93.0 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 1.23 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Phosphorus, Total | 833 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Particle size - Pipette removal OM & CO3 | | | | | | | |
| % Sand (2.0mm - 0.05mm) | 0.81 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Silt (0.05mm - 2um) | 70.5 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| % Clay (<2um) | 28.7 | | 0.10 | % | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Texture | Silty clay loam | | | | 03-OCT-11 | 05-OCT-11 | R2264046 |
| Metals | | | | | | | |
| Aluminum (Al) | 26500 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 3.22 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 18.5 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 142 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.77 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.221 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 16.7 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.883 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 9430 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.62 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 65.8 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 19.0 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 126 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 38100 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 15.1 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 11500 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 811 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.474 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 49.9 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 800 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 5200 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 64.9 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 1.95 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.17 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062772-7 ANB-05A Sampled By: CLIENT on 15-SEP-11 @ 16:20 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Sodium (Na) | 355 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 36.4 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.31 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 1120 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.152 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.20 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 55.8 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 504 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 18.0 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062772-8 ANB-05B Sampled By: CLIENT on 15-SEP-11 @ 16:28 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | <0.10 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Organic Carbon | 10.5 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| CaCO3 Equivalent | 0.79 | | 0.70 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 10.5 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.058 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 88.1 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 1.12 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Phosphorus, Total | 733 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 25000 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 2.14 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 16.9 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 138 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.80 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.219 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 12.1 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.747 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 9060 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.49 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 62.7 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 18.0 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 44.8 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 38800 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 14.5 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 11000 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 710 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.482 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 42.7 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 710 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 4730 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 60.6 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 1.59 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.18 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062772-8 ANB-05B Sampled By: CLIENT on 15-SEP-11 @ 16:28 Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Sodium (Na) | 320 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 33.1 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.30 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 1020 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.145 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.24 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 52.7 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 356 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 19.3 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| L1062772-9 ANB-05C Sampled By: CLIENT on 15-SEP-11 @ 16:46 Matrix: SEDIMENT | | | | | | | |
| Total Organic Carbon -Inorg & Total C | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| Inorganic Carbon | 0.10 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Organic Carbon | 10.5 | | 0.10 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| CaCO3 Equivalent | 0.86 | | 0.70 | % | 01-OCT-11 | 01-OCT-11 | R2263032 |
| Total Carbon by combustion method | | | | | | | |
| Total Carbon by Combustion | 10.6 | | 0.1 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Miscellaneous Parameters | | | | | | | |
| Mercury (Hg)-Total | 0.050 | | 0.050 | mg/kg | 06-OCT-11 | 06-OCT-11 | R2266580 |
| % Moisture | 86.9 | | 0.10 | % | 05-OCT-11 | 05-OCT-11 | R2263666 |
| Total Nitrogen by LECO | 1.12 | | 0.020 | % | 01-OCT-11 | 01-OCT-11 | R2263031 |
| Phosphorus, Total | 751 | | 50 | mg/kg | 04-OCT-11 | 04-OCT-11 | R2263655 |
| Metals | | | | | | | |
| Aluminum (Al) | 28500 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Antimony (Sb) | 1.63 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Arsenic (As) | 16.2 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Barium (Ba) | 149 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Beryllium (Be) | 0.83 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Bismuth (Bi) | 0.233 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Boron (B) | 17.4 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cadmium (Cd) | 0.605 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Calcium (Ca) | 9180 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cesium (Cs) | 2.83 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Chromium (Cr) | 65.9 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Cobalt (Co) | 16.9 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Copper (Cu) | 41.9 | | 1.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Iron (Fe) | 40400 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Lead (Pb) | 14.3 | | 0.20 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Magnesium (Mg) | 11700 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Manganese (Mn) | 693 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Molybdenum (Mo) | 0.473 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Nickel (Ni) | 44.1 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Phosphorus (P) | 720 | | 100 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Potassium (K) | 5410 | | 25 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Rubidium (Rb) | 66.6 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Selenium (Se) | 1.37 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Silver (Ag) | 0.18 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|--------|------------|-------|-------|-----------|-----------|----------|
| L1062772-9 ANB-05C | | | | | | | |
| Sampled By: CLIENT on 15-SEP-11 @ 16:46 | | | | | | | |
| Matrix: SEDIMENT | | | | | | | |
| Metals | | | | | | | |
| Sodium (Na) | 353 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Strontium (Sr) | 36.3 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tellurium (Te) | <0.10 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Thallium (Tl) | 0.31 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tin (Sn) | <5.0 | | 5.0 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Titanium (Ti) | 1330 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Tungsten (W) | 0.144 | | 0.050 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Uranium (U) | 1.33 | | 0.020 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Vanadium (V) | 58.2 | | 0.50 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zinc (Zn) | 274 | | 10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |
| Zirconium (Zr) | 20.3 | | 0.10 | mg/kg | 29-SEP-11 | 29-SEP-11 | R2261045 |

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---|--------|--|---------------------------------|
| C-INORG-ORG-SK | Soil | Inorganic and Organic Carbon | SSSA (1996) P455-456 |
| <p>When carbonates are decomposed with acid in an open system, carbon dioxide is released to the atmosphere. The decrease in sample weight resulting from CO₂ loss is proportional to the carbonate content of the soil.</p> <p>Reference: Loeppert, R.H. and Suarez, D.L. 1996. Gravimetric Method for Loss of Carbon Dioxide. P. 455-456 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p> | | | |
| C-TOT-LECO-SK | Soil | Total Carbon by combustion method | SSSA (1996) P. 973-974 |
| <p>The sample is introduced into a quartz tube where it undergoes combustion at 900 C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Nelson, D.W. and Sommers, L.E. 1996. Total Carbon, organic carbon and organic matter. P. 973-974 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p> | | | |
| HG-200.2-CVAF-WP | Soil | Mercury Total | EPA 7470A Rev 1,1994 |
| <p>A hydrochloric acid/nitric acid and potassium persulphate block digestion is employed to oxidize the organomercury to inorganic mercury. After digestion, samples are analyzed using cold vapour techniques.</p> | | | |
| MET-200.2-MS-WP | Soil | Metals | EPA 200.8/200.2 /BCMOE-S |
| <p>This analysis is carried out using procedures adapted from US EPA method 200.2. Sample preparation procedure for spectrochemical determination of total recoverable elements . Soil samples are dried (<60 C) and homogenized and a representative subsample of the dry material is digested. The digested samples are analyzed by ICPMS.</p> <p>The results are reported as mg/Kg dry weight or mg/Kg wet weight this is equivalent to ug/g dry weight or ug/g wet weight.</p> <p>Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that maybe environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not mobile in the environment. This method has known stability issues for determining Silicon.</p> | | | |
| MOIST-SK | Soil | Moisture Content | ASTM D2216-80 |
| <p>The weighed portion of soil is placed in a 105°C oven overnight. The dried soil is allowed to cooled to room temperature, weighed and the % moisture is calculated.</p> <p>Reference: ASTM D2216-80</p> | | | |
| N-TOT-LECO-SK | Soil | Total Nitrogen by combustion method | SSSA (1996) p. 973-974 |
| <p>The sample is introduced into a quartz tube where it undergoes combustion at 900 C in the presence of oxygen. Combustion gases are first carried through a catalyst bed in the bottom of the combustion tube, where oxidation is completed and then carried through a reducing agent (copper), where the nitrogen oxides are reduced to elemental nitrogen. This mixture of N₂, CO₂, and H₂O is then passed through an absorber column containing magnesium perchlorate to remove water. N₂ and CO₂ gases are then separated in a gas chromatographic column and detected by thermal conductivity.</p> <p>Reference: Bremner, J.M. 1996. Nitrogen - Total (Dumas Methods). P. 1088 In: J.M. Bartels et al. (ed.) Methods of soil analysis: Part 3 Chemical methods. (3rd ed.) ASA and SSSA, Madison, WI. Book series no. 5</p> | | | |
| P-SALM-ICP-SK | Soil | Total Phosphorus | EPA 200.2 |
| <p>This analysis is carried out using procedures from CSR Analytical Method: "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, 26 June 2009, and procedures adapted from EPA Method 200.2. The sample is dried at 40 C, then ground to < 2 mm particle size using a stainless steel flail grinder. A representative portion is digested with concentrated nitric and hydrochloric acids for 2 hours in an open vessel digester at 95 degrees. Instrumental analysis of the digested extract is by ICP-OES.</p> | | | |
| PSA-3-SK | Soil | Particle size - Pipette removal OM & CO ₃ | Forestry Canada (1991) p. 46-53 |
| <p>Dry, < 2 mm soil is treated hydrochloric acid top remove carbonates, then hydrogen peroxide to remove organic matter. The remaining soil is treated with sodium hexametaphosphate to ensure complete dispersion of primary soil particles. The homogenized suspension is allowed to settle in accordance with Stoke's Law so that only clay particles remain in suspension. To determine the clay fraction, an aliquot of the clay suspension is removed, then dried and weighed. The sand fraction is determined by wet sieving the remaining suspension, then drying and weighing the sand retained</p> | | | |

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|------------------|--------------------|
|---------------|--------|------------------|--------------------|

on the sieve. The silt fraction is determined by calculation where % Silt = 100 - (%Sand+%Clay)

Reference:

Burt, R. (2009). Soil Survey Field and Laboratory Methods Manual. Soil Survey Investigations Report No. 5. Method 3.2.1.2.2. United States Department of Agriculture Natural Resources Conservation Service.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

| Laboratory Definition Code | Laboratory Location |
|----------------------------|---|
| SK | ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA |
| WP | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA |

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L1062772

Report Date: 13-OCT-11

Page 1 of 15

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|--------------------|--------|-----------|-------|------|-----------|-----------|
| C-INORG-ORG-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263032 | | | | | | | |
| WG1360101-1 | DUP | L1062772-3 | | | | | | |
| Inorganic Carbon | | 0.12 | 0.14 | | % | 9.2 | 30 | 01-OCT-11 |
| CaCO3 Equivalent | | 1.03 | 1.13 | | % | 9.2 | 25 | 01-OCT-11 |
| WG1360101-2 | IRM | 0.4%IC | | | | | | |
| Inorganic Carbon | | | 0.38 | | % | | 0.28-0.52 | 01-OCT-11 |
| CaCO3 Equivalent | | | 3.17 | | % | | 2.33-4.33 | 01-OCT-11 |
| WG1360101-3 | MB | | | | | | | |
| Inorganic Carbon | | | <0.10 | | % | | 0.1 | 01-OCT-11 |
| CaCO3 Equivalent | | | <0.70 | | % | | 1 | 01-OCT-11 |
| C-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263031 | | | | | | | |
| WG1360069-1 | DUP | L1062772-4 | | | | | | |
| Total Carbon by Combustion | | 13.4 | 13.1 | | % | 2.0 | 10 | 01-OCT-11 |
| WG1360069-2 | IRM | 08-109_SOIL | | | | | | |
| Total Carbon by Combustion | | | 1.4 | | % | | 1.1-1.7 | 01-OCT-11 |
| WG1360069-3 | MB | | | | | | | |
| Total Carbon by Combustion | | | <0.1 | | % | | 0.1 | 01-OCT-11 |
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2266580 | | | | | | | |
| WG1364408-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 109 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 101 | | % | | 70-130 | 06-OCT-11 |
| WG1364408-4 | DUP | L1062760-5 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 06-OCT-11 |
| WG1364408-5 | DUP | L1062716-9 | | | | | | |
| Mercury (Hg)-Total | | 0.066 | 0.078 | | mg/kg | 16 | 40 | 06-OCT-11 |
| WG1364408-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 06-OCT-11 |
| Batch | R2268035 | | | | | | | |
| WG1367486-2 | CRM | NRC PACS-2 | | | | | | |
| Mercury (Hg)-Total | | | 112 | | % | | 70-130 | 12-OCT-11 |
| WG1367486-3 | CRM | NRC MESS-3 | | | | | | |
| Mercury (Hg)-Total | | | 87 | | % | | 70-130 | 12-OCT-11 |
| WG1367486-4 | DUP | L1062769-1 | | | | | | |
| Mercury (Hg)-Total | | 0.057 | 0.057 | | mg/kg | 0.53 | 40 | 12-OCT-11 |
| WG1367486-5 | DUP | L1062770-3 | | | | | | |



Quality Control Report

Workorder: L1062772

Report Date: 13-OCT-11

Page 2 of 15

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| HG-200.2-CVAF-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2268035 | | | | | | | |
| WG1367486-5 | DUP | L1062770-3 | | | | | | |
| Mercury (Hg)-Total | | <0.050 | <0.050 | RPD-NA | mg/kg | N/A | 40 | 12-OCT-11 |
| WG1367486-1 | MB | | | | | | | |
| Mercury (Hg)-Total | | | <0.050 | | mg/kg | | 0.05 | 12-OCT-11 |
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 113 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 93 | | % | | 70-130 | 29-SEP-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 105 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 89 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 103 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Titanium (Ti) | | | 112 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 90 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |



Quality Control Report

Workorder: L1062772

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-3 | CRM | NRC MESS-3 | | | | | | |
| Aluminum (Al) | | | 73 | | % | | 70-130 | 29-SEP-11 |
| Antimony (Sb) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Arsenic (As) | | | 86 | | % | | 70-130 | 29-SEP-11 |
| Barium (Ba) | | | 101 | | % | | 70-130 | 29-SEP-11 |
| Cadmium (Cd) | | | 82 | | % | | 70-130 | 29-SEP-11 |
| Calcium (Ca) | | | 106 | | % | | 70-130 | 29-SEP-11 |
| Chromium (Cr) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Cobalt (Co) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Copper (Cu) | | | 96 | | % | | 70-130 | 29-SEP-11 |
| Iron (Fe) | | | 108 | | % | | 70-130 | 29-SEP-11 |
| Lead (Pb) | | | 81 | | % | | 70-130 | 29-SEP-11 |
| Magnesium (Mg) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Manganese (Mn) | | | 123 | | % | | 70-130 | 29-SEP-11 |
| Molybdenum (Mo) | | | 95 | | % | | 70-130 | 29-SEP-11 |
| Nickel (Ni) | | | 97 | | % | | 70-130 | 29-SEP-11 |
| Phosphorus (P) | | | 85 | | % | | 70-130 | 29-SEP-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 29-SEP-11 |
| Selenium (Se) | | | 98 | | % | | 70-130 | 29-SEP-11 |
| Silver (Ag) | | | 100 | | % | | 70-130 | 29-SEP-11 |
| Sodium (Na) | | | 102 | | % | | 70-130 | 29-SEP-11 |
| Strontium (Sr) | | | 99 | | % | | 70-130 | 29-SEP-11 |
| Tin (Sn) | | | 87 | | % | | 70-130 | 29-SEP-11 |
| Uranium (U) | | | 79 | | % | | 70-130 | 29-SEP-11 |
| Vanadium (V) | | | 75 | | % | | 70-130 | 29-SEP-11 |
| Zinc (Zn) | | | 94 | | % | | 70-130 | 29-SEP-11 |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Aluminum (Al) | | 6440 | 6690 | | mg/kg | 3.8 | 40 | 29-SEP-11 |
| Arsenic (As) | | 7.64 | 7.96 | | mg/kg | 4.1 | 30 | 29-SEP-11 |
| Barium (Ba) | | 60.5 | 65.4 | | mg/kg | 7.8 | 40 | 29-SEP-11 |
| Bismuth (Bi) | | 0.087 | 0.075 | | mg/kg | 15 | 30 | 29-SEP-11 |
| Boron (B) | | 2.8 | 3.4 | | mg/kg | 20 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 4.76 | 4.86 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 3140 | 3540 | | mg/kg | 12 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062772

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-5 | DUP | WG1359420-4 | | | | | | |
| Cesium (Cs) | | 0.407 | 0.423 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 11.8 | 13.2 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 117 | 136 | | mg/kg | 16 | 30 | 29-SEP-11 |
| Copper (Cu) | | 427 | 462 | | mg/kg | 8.0 | 30 | 29-SEP-11 |
| Iron (Fe) | | 25800 | 25200 | | mg/kg | 2.3 | 30 | 29-SEP-11 |
| Lead (Pb) | | 10.9 | 9.63 | | mg/kg | 13 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 1760 | 1940 | | mg/kg | 9.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 105 | 126 | | mg/kg | 18 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.764 | 0.848 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 38.4 | 43.2 | | mg/kg | 12 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 510 | 530 | | mg/kg | 3.9 | 30 | 29-SEP-11 |
| Potassium (K) | | 575 | 595 | | mg/kg | 3.4 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 4.56 | 5.53 | | mg/kg | 19 | 30 | 29-SEP-11 |
| Selenium (Se) | | 2.66 | 2.73 | | mg/kg | 2.9 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.14 | 0.15 | | mg/kg | 11 | 40 | 29-SEP-11 |
| Sodium (Na) | | 231 | 282 | | mg/kg | 20 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 9.69 | 12.1 | | mg/kg | 22 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 187 | 200 | | mg/kg | 6.5 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.090 | 0.084 | | mg/kg | 6.8 | 30 | 29-SEP-11 |
| Uranium (U) | | 0.613 | 0.563 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 17.3 | 19.1 | | mg/kg | 9.9 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 4890 | 5140 | | mg/kg | 5.1 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 2.82 | 3.07 | | mg/kg | 8.5 | 30 | 29-SEP-11 |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Aluminum (Al) | | 30500 | 29800 | | mg/kg | 2.1 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 3.19 | 3.15 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.15 | | mg/kg | 3.3 | 30 | 29-SEP-11 |
| Barium (Ba) | | 133 | 130 | | mg/kg | 2.8 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.86 | 0.88 | | mg/kg | 2.8 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.189 | 0.177 | | mg/kg | 6.4 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062772

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-7 | DUP | WG1359420-6 | | | | | | |
| Boron (B) | | 14.7 | 15.0 | | mg/kg | 2.1 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.574 | 0.513 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 9960 | 9830 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 2.47 | 2.43 | | mg/kg | 1.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 72.9 | 73.2 | | mg/kg | 0.35 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.9 | 19.3 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Copper (Cu) | | 43.9 | 43.0 | | mg/kg | 2.2 | 30 | 29-SEP-11 |
| Iron (Fe) | | 37500 | 38900 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Lead (Pb) | | 14.9 | 13.6 | | mg/kg | 9.6 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 12800 | 12900 | | mg/kg | 0.32 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 454 | 448 | | mg/kg | 1.4 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.327 | 0.330 | | mg/kg | 1.1 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 45.7 | 44.9 | | mg/kg | 1.9 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 500 | 500 | | mg/kg | 1.0 | 30 | 29-SEP-11 |
| Potassium (K) | | 5850 | 5880 | | mg/kg | 0.64 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 67.7 | 66.9 | | mg/kg | 1.2 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.54 | 1.43 | | mg/kg | 7.3 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.18 | 0.19 | | mg/kg | 4.7 | 40 | 29-SEP-11 |
| Sodium (Na) | | 436 | 468 | | mg/kg | 7.0 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 38.3 | 38.7 | | mg/kg | 0.94 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.32 | 0.29 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 1320 | 1330 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 5.2 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.32 | 1.24 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 65.6 | 66.1 | | mg/kg | 0.83 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 670 | 660 | | mg/kg | 1.6 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 24.9 | 26.4 | | mg/kg | 5.6 | 30 | 29-SEP-11 |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Aluminum (Al) | | 21900 | 21200 | | mg/kg | 3.3 | 40 | 29-SEP-11 |
| Antimony (Sb) | | 4.10 | 4.16 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Arsenic (As) | | 9.46 | 9.43 | | mg/kg | 0.32 | 30 | 29-SEP-11 |



Quality Control Report

Workorder: L1062772

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-9 | DUP | WG1359420-8 | | | | | | |
| Barium (Ba) | | 111 | 110 | | mg/kg | 1.2 | 40 | 29-SEP-11 |
| Beryllium (Be) | | 0.59 | 0.54 | | mg/kg | 9.6 | 30 | 29-SEP-11 |
| Bismuth (Bi) | | 0.140 | 0.144 | | mg/kg | 3.1 | 30 | 29-SEP-11 |
| Boron (B) | | 18.9 | 17.5 | | mg/kg | 7.9 | 30 | 29-SEP-11 |
| Cadmium (Cd) | | 0.714 | 0.714 | | mg/kg | 0.020 | 30 | 29-SEP-11 |
| Calcium (Ca) | | 13400 | 13200 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Cesium (Cs) | | 1.97 | 1.90 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Chromium (Cr) | | 55.1 | 53.0 | | mg/kg | 3.8 | 30 | 29-SEP-11 |
| Cobalt (Co) | | 19.3 | 18.5 | | mg/kg | 4.0 | 30 | 29-SEP-11 |
| Copper (Cu) | | 41.0 | 40.9 | | mg/kg | 0.23 | 30 | 29-SEP-11 |
| Iron (Fe) | | 28200 | 29200 | | mg/kg | 3.4 | 30 | 29-SEP-11 |
| Lead (Pb) | | 9.92 | 10.5 | | mg/kg | 6.1 | 40 | 29-SEP-11 |
| Magnesium (Mg) | | 9610 | 9490 | | mg/kg | 1.3 | 30 | 29-SEP-11 |
| Manganese (Mn) | | 701 | 656 | | mg/kg | 6.5 | 30 | 29-SEP-11 |
| Molybdenum (Mo) | | 0.532 | 0.535 | | mg/kg | 0.44 | 40 | 29-SEP-11 |
| Nickel (Ni) | | 33.0 | 32.7 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Phosphorus (P) | | 620 | 620 | | mg/kg | 0.48 | 30 | 29-SEP-11 |
| Potassium (K) | | 4260 | 4280 | | mg/kg | 0.47 | 40 | 29-SEP-11 |
| Rubidium (Rb) | | 51.8 | 48.3 | | mg/kg | 7.1 | 30 | 29-SEP-11 |
| Selenium (Se) | | 1.88 | 1.90 | | mg/kg | 1.1 | 30 | 29-SEP-11 |
| Silver (Ag) | | 0.15 | 0.16 | | mg/kg | 7.2 | 40 | 29-SEP-11 |
| Sodium (Na) | | 351 | 354 | | mg/kg | 0.81 | 40 | 29-SEP-11 |
| Strontium (Sr) | | 45.8 | 42.9 | | mg/kg | 6.7 | 40 | 29-SEP-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 29-SEP-11 |
| Thallium (Tl) | | 0.23 | 0.24 | | mg/kg | 4.7 | 30 | 29-SEP-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 29-SEP-11 |
| Titanium (Ti) | | 955 | 979 | | mg/kg | 2.6 | 40 | 29-SEP-11 |
| Tungsten (W) | | 0.112 | 0.125 | | mg/kg | 11 | 30 | 29-SEP-11 |
| Uranium (U) | | 1.31 | 1.33 | | mg/kg | 1.5 | 30 | 29-SEP-11 |
| Vanadium (V) | | 48.8 | 48.5 | | mg/kg | 0.73 | 30 | 29-SEP-11 |
| Zinc (Zn) | | 405 | 413 | | mg/kg | 2.0 | 30 | 29-SEP-11 |
| Zirconium (Zr) | | 20.1 | 20.1 | | mg/kg | 0.13 | 30 | 29-SEP-11 |
| WG1359420-1 | MB | | | | | | | |



Quality Control Report

Workorder: L1062772

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 29-SEP-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 29-SEP-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 29-SEP-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 29-SEP-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 29-SEP-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 29-SEP-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 29-SEP-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 29-SEP-11 |



Quality Control Report

Workorder: L1062772

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2261045 | | | | | | | |
| WG1359420-1 | MB | | | | | | | |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 29-SEP-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 29-SEP-11 |
| Batch | R2262894 | | | | | | | |
| WG1361496-2 | CRM | NRC PACS-2 | | | | | | |
| Aluminum (Al) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Antimony (Sb) | | | 119 | | % | | 70-130 | 03-OCT-11 |
| Arsenic (As) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Barium (Ba) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Beryllium (Be) | | | 80 | | % | | 70-130 | 03-OCT-11 |
| Boron (B) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Cadmium (Cd) | | | 94 | | % | | 70-130 | 03-OCT-11 |
| Calcium (Ca) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Chromium (Cr) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Cobalt (Co) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Copper (Cu) | | | 100 | | % | | 70-130 | 03-OCT-11 |
| Iron (Fe) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Lead (Pb) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| Magnesium (Mg) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Manganese (Mn) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Molybdenum (Mo) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Nickel (Ni) | | | 94 | | % | | 70-130 | 03-OCT-11 |
| Phosphorus (P) | | | 87 | | % | | 70-130 | 03-OCT-11 |
| Potassium (K) | | | 82 | | % | | 70-130 | 03-OCT-11 |
| Silver (Ag) | | | 97 | | % | | 70-130 | 03-OCT-11 |
| Sodium (Na) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Strontium (Sr) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| Thallium (Tl) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Tin (Sn) | | | 92 | | % | | 70-130 | 03-OCT-11 |
| Titanium (Ti) | | | 102 | | % | | 70-130 | 03-OCT-11 |
| Uranium (U) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Vanadium (V) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Zinc (Zn) | | | 91 | | % | | 70-130 | 03-OCT-11 |
| WG1361496-3 | CRM | NRC MESS-3 | | | | | | |
| Antimony (Sb) | | | 93 | | % | | 70-130 | 03-OCT-11 |



Quality Control Report

Workorder: L1062772

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-3 | CRM | NRC MESS-3 | | | | | | |
| Arsenic (As) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Barium (Ba) | | | 103 | | % | | 70-130 | 03-OCT-11 |
| Beryllium (Be) | | | 72 | | % | | 70-130 | 03-OCT-11 |
| Cadmium (Cd) | | | 83 | | % | | 70-130 | 03-OCT-11 |
| Calcium (Ca) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Chromium (Cr) | | | 78 | | % | | 70-130 | 03-OCT-11 |
| Cobalt (Co) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Copper (Cu) | | | 98 | | % | | 70-130 | 03-OCT-11 |
| Iron (Fe) | | | 103 | | % | | 70-130 | 03-OCT-11 |
| Lead (Pb) | | | 90 | | % | | 70-130 | 03-OCT-11 |
| Magnesium (Mg) | | | 89 | | % | | 70-130 | 03-OCT-11 |
| Manganese (Mn) | | | 111 | | % | | 70-130 | 03-OCT-11 |
| Molybdenum (Mo) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Nickel (Ni) | | | 96 | | % | | 70-130 | 03-OCT-11 |
| Phosphorus (P) | | | 81 | | % | | 70-130 | 03-OCT-11 |
| Potassium (K) | | | 72 | | % | | 70-130 | 03-OCT-11 |
| Selenium (Se) | | | 118 | | % | | 70-130 | 03-OCT-11 |
| Silver (Ag) | | | 93 | | % | | 70-130 | 03-OCT-11 |
| Sodium (Na) | | | 101 | | % | | 70-130 | 03-OCT-11 |
| Strontium (Sr) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Tin (Sn) | | | 73 | | % | | 70-130 | 03-OCT-11 |
| Uranium (U) | | | 88 | | % | | 70-130 | 03-OCT-11 |
| Vanadium (V) | | | 74 | | % | | 70-130 | 03-OCT-11 |
| Zinc (Zn) | | | 95 | | % | | 70-130 | 03-OCT-11 |
| WG1361496-5 | DUP | WG1361496-4 | | | | | | |
| Aluminum (Al) | | 19900 | 17700 | | mg/kg | 12 | 40 | 03-OCT-11 |
| Antimony (Sb) | | 0.15 | 0.16 | | mg/kg | 4.1 | 30 | 03-OCT-11 |
| Arsenic (As) | | 14.8 | 14.0 | | mg/kg | 5.6 | 30 | 03-OCT-11 |
| Barium (Ba) | | 175 | 166 | | mg/kg | 5.3 | 40 | 03-OCT-11 |
| Beryllium (Be) | | 0.47 | 0.55 | | mg/kg | 16 | 30 | 03-OCT-11 |
| Bismuth (Bi) | | 0.097 | 0.102 | | mg/kg | 4.5 | 30 | 03-OCT-11 |
| Boron (B) | | 22.8 | 18.7 | | mg/kg | 19 | 30 | 03-OCT-11 |
| Cadmium (Cd) | | 1.30 | 1.22 | | mg/kg | 6.0 | 30 | 03-OCT-11 |



Quality Control Report

Workorder: L1062772

Report Date: 13-OCT-11

Page 10 of 15

Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-5 | DUP | WG1361496-4 | | | | | | |
| Calcium (Ca) | | 11700 | 10400 | | mg/kg | 12 | 30 | 03-OCT-11 |
| Cesium (Cs) | | 1.46 | 1.30 | | mg/kg | 12 | 30 | 03-OCT-11 |
| Chromium (Cr) | | 82.9 | 77.4 | | mg/kg | 6.9 | 30 | 03-OCT-11 |
| Cobalt (Co) | | 158 | 150 | | mg/kg | 5.5 | 30 | 03-OCT-11 |
| Copper (Cu) | | 271 | 263 | | mg/kg | 3.1 | 30 | 03-OCT-11 |
| Iron (Fe) | | 29800 | 28100 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Lead (Pb) | | 6.94 | 6.65 | | mg/kg | 4.3 | 40 | 03-OCT-11 |
| Magnesium (Mg) | | 7780 | 7350 | | mg/kg | 5.6 | 30 | 03-OCT-11 |
| Manganese (Mn) | | 3540 | 3320 | | mg/kg | 6.2 | 30 | 03-OCT-11 |
| Molybdenum (Mo) | | 0.722 | 0.786 | | mg/kg | 8.6 | 40 | 03-OCT-11 |
| Nickel (Ni) | | 59.0 | 55.6 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Phosphorus (P) | | 570 | 510 | | mg/kg | 9.7 | 30 | 03-OCT-11 |
| Potassium (K) | | 3490 | 2930 | | mg/kg | 17 | 40 | 03-OCT-11 |
| Rubidium (Rb) | | 34.6 | 31.3 | | mg/kg | 9.9 | 30 | 03-OCT-11 |
| Selenium (Se) | | 0.95 | 0.85 | | mg/kg | 11 | 30 | 03-OCT-11 |
| Silver (Ag) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Sodium (Na) | | 248 | 211 | | mg/kg | 16 | 40 | 03-OCT-11 |
| Strontium (Sr) | | 40.1 | 36.7 | | mg/kg | 8.9 | 40 | 03-OCT-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 03-OCT-11 |
| Thallium (Tl) | | 0.18 | 0.16 | | mg/kg | 7.3 | 30 | 03-OCT-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Titanium (Ti) | | 790 | 681 | | mg/kg | 15 | 40 | 03-OCT-11 |
| Tungsten (W) | | 0.149 | 0.153 | | mg/kg | 2.2 | 30 | 03-OCT-11 |
| Uranium (U) | | 1.51 | 1.39 | | mg/kg | 8.1 | 30 | 03-OCT-11 |
| Vanadium (V) | | 41.9 | 36.7 | | mg/kg | 13 | 30 | 03-OCT-11 |
| Zinc (Zn) | | 1080 | 1040 | | mg/kg | 3.7 | 30 | 03-OCT-11 |
| Zirconium (Zr) | | 6.34 | 6.73 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| WG1361496-7 | DUP | WG1361496-6 | | | | | | |
| Aluminum (Al) | | 22900 | 23100 | | mg/kg | 1.2 | 40 | 03-OCT-11 |
| Antimony (Sb) | | 2.52 | 2.67 | | mg/kg | 5.8 | 30 | 03-OCT-11 |
| Arsenic (As) | | 14.4 | 14.8 | | mg/kg | 2.4 | 30 | 03-OCT-11 |
| Barium (Ba) | | 121 | 124 | | mg/kg | 2.4 | 40 | 03-OCT-11 |
| Beryllium (Be) | | 0.79 | 0.73 | | mg/kg | 8.5 | 30 | 03-OCT-11 |



Quality Control Report

Workorder: L1062772

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|-------|------|-------|-----------|
| MET-200.2-MS-WP | | Soil | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-7 | DUP | WG1361496-6 | | | | | | |
| Bismuth (Bi) | | 0.215 | 0.214 | | mg/kg | 0.36 | 30 | 03-OCT-11 |
| Boron (B) | | 16.8 | 14.2 | | mg/kg | 17 | 30 | 03-OCT-11 |
| Cadmium (Cd) | | 0.918 | 0.908 | | mg/kg | 1.1 | 30 | 03-OCT-11 |
| Calcium (Ca) | | 10500 | 10100 | | mg/kg | 4.0 | 30 | 03-OCT-11 |
| Cesium (Cs) | | 2.40 | 2.36 | | mg/kg | 1.8 | 30 | 03-OCT-11 |
| Chromium (Cr) | | 56.9 | 53.5 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Cobalt (Co) | | 17.3 | 16.6 | | mg/kg | 4.2 | 30 | 03-OCT-11 |
| Copper (Cu) | | 44.9 | 44.7 | | mg/kg | 0.25 | 30 | 03-OCT-11 |
| Iron (Fe) | | 32300 | 33600 | | mg/kg | 3.7 | 30 | 03-OCT-11 |
| Lead (Pb) | | 14.3 | 14.5 | | mg/kg | 1.9 | 40 | 03-OCT-11 |
| Magnesium (Mg) | | 9900 | 9240 | | mg/kg | 6.8 | 30 | 03-OCT-11 |
| Manganese (Mn) | | 522 | 499 | | mg/kg | 4.4 | 30 | 03-OCT-11 |
| Molybdenum (Mo) | | 0.468 | 0.477 | | mg/kg | 2.0 | 40 | 03-OCT-11 |
| Nickel (Ni) | | 37.2 | 35.4 | | mg/kg | 4.8 | 30 | 03-OCT-11 |
| Phosphorus (P) | | 700 | 630 | | mg/kg | 11 | 30 | 03-OCT-11 |
| Potassium (K) | | 4800 | 4260 | | mg/kg | 12 | 40 | 03-OCT-11 |
| Rubidium (Rb) | | 50.2 | 48.9 | | mg/kg | 2.5 | 30 | 03-OCT-11 |
| Selenium (Se) | | 1.90 | 1.79 | | mg/kg | 6.0 | 30 | 03-OCT-11 |
| Silver (Ag) | | 0.17 | 0.19 | | mg/kg | 7.1 | 40 | 03-OCT-11 |
| Sodium (Na) | | 376 | 313 | | mg/kg | 19 | 40 | 03-OCT-11 |
| Strontium (Sr) | | 34.8 | 33.9 | | mg/kg | 2.4 | 40 | 03-OCT-11 |
| Tellurium (Te) | | <0.10 | <0.10 | RPD-NA | mg/kg | N/A | 30 | 03-OCT-11 |
| Thallium (Tl) | | 0.31 | 0.31 | | mg/kg | 0.73 | 30 | 03-OCT-11 |
| Tin (Sn) | | <5.0 | <5.0 | RPD-NA | mg/kg | N/A | 40 | 03-OCT-11 |
| Titanium (Ti) | | 1070 | 1070 | | mg/kg | 0.28 | 40 | 03-OCT-11 |
| Tungsten (W) | | 0.141 | 0.134 | | mg/kg | 4.9 | 30 | 03-OCT-11 |
| Uranium (U) | | 1.24 | 1.25 | | mg/kg | 0.57 | 30 | 03-OCT-11 |
| Vanadium (V) | | 47.3 | 44.5 | | mg/kg | 6.1 | 30 | 03-OCT-11 |
| Zinc (Zn) | | 439 | 437 | | mg/kg | 0.34 | 30 | 03-OCT-11 |
| Zirconium (Zr) | | 19.0 | 19.6 | | mg/kg | 3.2 | 30 | 03-OCT-11 |
| WG1361496-1 | MB | | | | | | | |
| Aluminum (Al) | | | <5.0 | | mg/kg | | 5 | 03-OCT-11 |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |



Quality Control Report

Workorder: L1062772

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|-------|-----------|
| MET-200.2-MS-WP | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2262894 | | | | | | | |
| WG1361496-1 | MB | | | | | | | |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Bismuth (Bi) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Boron (B) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Calcium (Ca) | | | <100 | | mg/kg | | 100 | 03-OCT-11 |
| Cesium (Cs) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Chromium (Cr) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Cobalt (Co) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Copper (Cu) | | | <1.0 | | mg/kg | | 1 | 03-OCT-11 |
| Iron (Fe) | | | <25 | | mg/kg | | 25 | 03-OCT-11 |
| Lead (Pb) | | | <0.20 | | mg/kg | | 0.2 | 03-OCT-11 |
| Magnesium (Mg) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Manganese (Mn) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Molybdenum (Mo) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Phosphorus (P) | | | <100 | | mg/kg | | 100 | 03-OCT-11 |
| Potassium (K) | | | <25 | | mg/kg | | 25 | 03-OCT-11 |
| Rubidium (Rb) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Selenium (Se) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Sodium (Na) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Strontium (Sr) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Tellurium (Te) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Thallium (Tl) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |
| Tin (Sn) | | | <5.0 | | mg/kg | | 5 | 03-OCT-11 |
| Titanium (Ti) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Tungsten (W) | | | <0.050 | | mg/kg | | 0.05 | 03-OCT-11 |
| Uranium (U) | | | <0.020 | | mg/kg | | 0.02 | 03-OCT-11 |
| Vanadium (V) | | | <0.50 | | mg/kg | | 0.5 | 03-OCT-11 |
| Zinc (Zn) | | | <10 | | mg/kg | | 10 | 03-OCT-11 |
| Zirconium (Zr) | | | <0.10 | | mg/kg | | 0.1 | 03-OCT-11 |



Quality Control Report

Workorder: L1062772

Report Date: 13-OCT-11

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Client: AECOM Canada Ltd. (Winnipeg)
 99 Commerce Drive
 Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------------|-----------------|--------------------|--------|-----------|-------|-------|-------------|-----------|
| N-TOT-LECO-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263031 | | | | | | | |
| WG1360069-1 | DUP | L1062772-4 | | | | | | |
| Total Nitrogen by LECO | | 1.36 | 1.34 | J | % | 0.023 | 0.05 | 01-OCT-11 |
| WG1360069-2 | IRM | 08-109_SOIL | | | | | | |
| Total Nitrogen by LECO | | | 0.110 | | % | | 0.085-0.135 | 01-OCT-11 |
| WG1360069-3 | MB | | | | | | | |
| Total Nitrogen by LECO | | | <0.020 | | % | | 0.02 | 01-OCT-11 |
| P-SALM-ICP-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2263655 | | | | | | | |
| WG1359965-2 | CRM | SS-1_SOIL | | | | | | |
| Phosphorus, Total | | | 1100 | | mg/kg | | 750-1530 | 04-OCT-11 |
| WG1359965-3 | DUP | L1062761-6 | | | | | | |
| Phosphorus, Total | | 1160 | 1140 | | mg/kg | 1.5 | 30 | 04-OCT-11 |
| WG1359965-5 | DUP | L1062767-9 | | | | | | |
| Phosphorus, Total | | 520 | 535 | | mg/kg | 2.8 | 30 | 04-OCT-11 |
| WG1359965-1 | MB | | | | | | | |
| Phosphorus, Total | | | <50 | | mg/kg | | 50 | 04-OCT-11 |
| PSA-3-SK | | | | | | | | |
| | Soil | | | | | | | |
| Batch | R2264046 | | | | | | | |
| WG1360047-1 | DUP | L1062770-1 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | 67.9 | 68.7 | J | % | 0.83 | 10 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | 9.98 | 10.3 | J | % | 0.32 | 10 | 05-OCT-11 |
| % Clay (<2um) | | 22.1 | 21.0 | J | % | 1.16 | 10 | 05-OCT-11 |
| WG1360047-2 | IRM | FARM2009 | | | | | | |
| % Sand (2.0mm - 0.05mm) | | | 50.9 | | % | | 45-55 | 05-OCT-11 |
| % Silt (0.05mm - 2um) | | | 31.4 | | % | | 29-39 | 05-OCT-11 |
| % Clay (<2um) | | | 17.7 | | % | | 10-20 | 05-OCT-11 |

Quality Control Report

Workorder: L1062772

Report Date: 13-OCT-11

Client: AECOM Canada Ltd. (Winnipeg)
99 Commerce Drive
Winnipeg MB R3P 0Y7

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Contact: Clifton Samoiloff

Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

| Qualifier | Description |
|-----------|---|
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Quality Control Report

Workorder: L1062772

Report Date: 13-OCT-11

Client: AECOM Canada Ltd. (Winnipeg)
99 Commerce Drive
Winnipeg MB R3P 0Y7

Contact: Clifton Samoiloff

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Hold Time Exceedances:

| ALS Product Description | Sample ID | Sampling Date | Date Processed | Rec. HT | Actual HT | Units | Qualifier |
|-----------------------------------|-----------|-----------------|-----------------|---------|-----------|-------|-----------|
| Physical Tests | | | | | | | |
| Moisture Content | | | | | | | |
| | 1 | 15-SEP-11 14:16 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 2 | 15-SEP-11 14:28 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 3 | 15-SEP-11 14:40 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 4 | 15-SEP-11 15:02 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 5 | 15-SEP-11 15:20 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 6 | 15-SEP-11 15:30 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 7 | 15-SEP-11 16:20 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 8 | 15-SEP-11 16:28 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| | 9 | 15-SEP-11 16:46 | 05-OCT-11 00:00 | 14 | 19 | days | EHT |
| Organic / Inorganic Carbon | | | | | | | |
| Inorganic and Organic Carbon | | | | | | | |
| | 1 | 15-SEP-11 14:16 | 01-OCT-11 00:00 | 14 | 15 | days | EHT |
| | 2 | 15-SEP-11 14:28 | 01-OCT-11 00:00 | 14 | 15 | days | EHT |
| | 3 | 15-SEP-11 14:40 | 01-OCT-11 00:00 | 14 | 15 | days | EHT |
| | 4 | 15-SEP-11 15:02 | 01-OCT-11 00:00 | 14 | 15 | days | EHT |
| | 5 | 15-SEP-11 15:20 | 01-OCT-11 00:00 | 14 | 15 | days | EHT |
| | 6 | 15-SEP-11 15:30 | 01-OCT-11 00:00 | 14 | 15 | days | EHT |
| | 7 | 15-SEP-11 16:20 | 01-OCT-11 00:00 | 14 | 15 | days | EHT |
| | 8 | 15-SEP-11 16:28 | 01-OCT-11 00:00 | 14 | 15 | days | EHT |
| | 9 | 15-SEP-11 16:46 | 01-OCT-11 00:00 | 14 | 15 | days | EHT |

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L1062772 were received on 23-SEP-11 15:00.

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.

RECHECK ANALYSIS REPORT

RC24776

Date: 30-JUN-11 10:15

Loginnum L1008005 **Requestby** CLIENT
Accntnum W172 **Due Date** 17-JUN-11
Client AECOM Canada Ltd. (Winnipeg) **Issued To** GHILL
Deptnum 61200 **Issued By** CHILL
 Date Initiated 10-JUN-11

Recheck Comments

Samples were trip blanks Sb out of range (total Sb's were <dl)
L1008005-7 & L1007954-5
Samples were syringed filtered from Brown bottle and rerun on 13-June-11 DGordon.
16-JUN-11 Cherrod Added L1007855-5 & L1009420-6 - please confirm results run from Routine bottle.
Samples syringe filtered from blue bottle 20 June 11

Recheck Reason

Quality control sample(s) failure (in-house or client QC)

Action to Take

Do whats necessary

| Samplenum | Prod | Mat | Parm Syn | Result | Units | Measdate | RCResult | UCL | RC RPD | RCWork# | RCMeasdate | Initials |
|------------|---------------|-----|-------------------------|---------|-------|-----------|----------|----------------|------------|---------|------------|----------|
| L1007855-5 | MET-D-L-MS-WP | 1 | Antimony (Sb)-Dissolved | 0.00038 | mg/L | 26-MAY-11 | <0.0002 | No Charl 20 | NA NA | | 20-JUN-11 | DAG |
| L1007954-5 | MET-D-L-MS-WP | 1 | Antimony (Sb)-Dissolved | 0.00038 | mg/L | 26-MAY-11 | <0.0002 | No Charl 20 | NA NA | | 20-JUN-11 | DAG |
| L1008005-7 | MET-D-L-MS-WP | 1 | Antimony (Sb)-Dissolved | 0.00046 | mg/L | 26-MAY-11 | 0.00044 | No Charl 20 | 4.4 4.4 | | 20-JUN-11 | DAG |
| L1009420-6 | MET-D-L-MS-WP | 1 | Antimony (Sb)-Dissolved | 0.00040 | mg/L | 28-MAY-11 | <0.0002 | No Charl 20 | NA NA | | 20-JUN-11 | DAG |

Sample Comments:

Analyst Comments:

RECHECK ANALYSIS REPORT

RC25699

Date: 25-OCT-11 14:35

| | | | |
|-----------------|------------------------------|-----------------------|-----------|
| Loginnum | L1062763 | Requestby | CLIENT |
| Acctnum | W172 | Due Date | 31-OCT-11 |
| Client | AECOM Canada Ltd. (Winnipeg) | Issued To | NCRUSE |
| Deptnum | 41200 | Issued By | CHILL |
| | | Date Initiated | 25-OCT-11 |

Recheck Comments

Recheck Reason

Result does not agree with historical data

Action to Take

Do whats necessary

| Samplenum | Prod | Mat | Parm Syn | Result | Units | Measdate | RCResult | UCL | RC RPD | RCWork# | RCMeasdate | Initials |
|------------|----------------|-----|----------------------------|--------|-------|-----------|----------|----------|--------|---------|------------|----------|
| L1062763-4 | C-INORG-ORG-SK | 2 | Total Organic Carbon | 5.35 | % | 04-OCT-11 | 4.82 | No Charl | 10.4 | | 25-OCT-11 | LZH |
| L1062763-4 | C-TOT-LECO-SK | 2 | Total Carbon by Combustion | 5.5 | % | 03-OCT-11 | 4.94 | 10 | 10.7 | | 25-OCT-11 | XHY |

Sample Comments:

Analyst Comments:

RECHECK ANALYSIS REPORT

RC24882

Date: 30-JUN-11 09:38

| | | | |
|-----------------|------------------------------|-----------------------|-----------|
| Loginnum | L1014705 | Requestby | CLIENT |
| Acctnum | W172 | Due Date | 29-JUN-11 |
| Client | AECOM Canada Ltd. (Winnipeg) | Issued To | GHILL |
| Deptnum | 61200 | Issued By | CHILL |
| | | Date Initiated | 24-JUN-11 |

Recheck Comments

Client dupliacte RPDs >25%

Samples redigested DGordon 28June11.

Recheck Reason

Quality control sample(s) failure (in-house or client QC)

Action to Take

Do whats necessary

| Sampleinum | Prod | Mat | Parm Syn | Result | Units | Measdate | RCResult | UCL | RC RPD | RCWork# | RCMeasdate | Initials |
|-------------|-----------------|-----|----------------|--------|-------|-----------|----------|-----|--------|---------|------------|----------|
| L1014705-4 | MET-200.2-MS-WP | 2 | Bismuth (Bi) | 0.268 | mg/kg | 13-JUN-11 | 0.08 | 30 | 108 | | 28-JUN-11 | DAG |
| L1014705-12 | MET-200.2-MS-WP | 2 | Manganese (Mn) | 716 | mg/kg | 13-JUN-11 | 653 | 30 | 9.2 | | 28-JUN-11 | DAG |
| L1014705-13 | MET-200.2-MS-WP | 2 | Zinc (Zn) | 497 | mg/kg | 13-JUN-11 | 469 | 30 | 5.8 | | 28-JUN-11 | DAG |

Sample Comments:

Analyst Comments:

RECHECK ANALYSIS REPORT

RC25621

Date: 26-OCT-11 12:08

Loginnum L1060062
 Acctnum W172
 Client AECOM Canada Ltd. (Winnipeg)
 Deptnum 61200

Requestby CLIENT
 Due Date 20-OCT-11
 Issued To GHILL
 Issued By CHILL
 Date Initiated 17-OCT-11

Recheck Comments

please review BOD data and rerun metals.
 Metals rerun results within analytical error with one exception. Fraction -8 Total Silicon result variability due to the fact that 1/100 dilution was used for reporting (no dilution=outside linear range) Diluted result close to LOR.

BOD data bundles reviewed. L1060062-7 was picked for a lab duplicate. Duplication was acceptable. (2.0 and 2.1 mg/L) No problems found with fraction -8 analysis. For this concentration level of cBOD only one dilution contributed to the reported result.

Recheck Reason

Quality control sample(s) failure (in-house or client QC) - Client duplicates

Action to Take

Do whats necessary

| Samplenum | Prod | Mat | Parm Syn | Result | Units | Measdate | RCResult | UCL | RC RPD | RCWork# | RCMeasdate | Initials |
|------------|---------------------|-----|--------------------------|---------|-------|-----------|----------|----------|--------|---------|------------|----------|
| L1060062-7 | CONSULT-BOD-CBOD-WP | 1 | BOD Carbonaceous | 2.0 | mg/L | 22-SEP-11 | | 20 | NA | | | JVV |
| L1060062-7 | MET-D-L-MS-WP | 1 | Manganese (Mn)-Dissolved | 0.00327 | mg/L | 23-SEP-11 | 0.00031 | 20 | 165.4 | | 20-OCT-11 | DAG |
| L1060062-7 | MET-T-L-MS-WP | 1 | Silicon (Si)-Total | 0.860 | mg/L | 24-SEP-11 | 0.7877 | No Charl | 8.8 | | 19-OCT-11 | DAG |
| L1060062-8 | CONSULT-BOD-CBOD-WP | 1 | BOD Carbonaceous | 5.9 | mg/L | 22-SEP-11 | | 20 | NA | | | JVV |
| L1060062-8 | MET-D-L-MS-WP | 1 | Manganese (Mn)-Dissolved | 0.00042 | mg/L | 23-SEP-11 | 0.00037 | No Charl | 12.7 | | 19-OCT-11 | DAG |
| L1060062-8 | MET-T-L-MS-WP | 1 | Silicon (Si)-Total | 1.09 | mg/L | 24-SEP-11 | 0.7685 | 20 | 34.6 | | 19-OCT-11 | DAG |
| | | | | | | | | No Charl | 34.6 | | | |

Sample Comments:

L1060062-7 20110926 Redo:POTASSIUM,POTASSIUM

Analyst Comments:

RECHECK ANALYSIS REPORT

RC25700

Date: 28-OCT-11 16:04

Loginnum L1062772
Acctnum W172
Client AECOM Canada Ltd. (Winnipeg)
Deptnum 61200

Requestby CLIENT
Due Date 31-OCT-11
Issued To GHILL
Issued By CHILL
Date Initiated 25-OCT-11

Recheck Comments

L1062772, L1062763, L1062716, L1062732
Samples were digested from the original ground sample. L1062772-6 is not homogeneous, there are some larger flakes.

All rerun results withing analytical error (+/-20%) with the exception of Copper

Recheck Reason

Result does not agree with historical data

Action to Take

Do whats necessary

| Samplenum | Prod | Mat | Parm Syn | Result | Units | Measdate | RCResult | UCL | RC RPD | RCWork# | RCMeasdate | Initials |
|------------|-----------------|-----|--------------|--------|-------|-----------|----------|-----|--------|---------|------------|----------|
| L1062716-2 | MET-200.2-MS-WP | 2 | Iron (Fe) | 94000 | mg/kg | 30-SEP-11 | 85400 | 30 | 9.6 | | 27-OCT-11 | DAG |
| L1062732-4 | MET-200.2-MS-WP | 2 | Lead (Pb) | 2.41 | mg/kg | 01-OCT-11 | 2.32 | 40 | 3.8 | | 27-OCT-11 | DAG |
| L1062732-9 | MET-200.2-MS-WP | 2 | Bismuth (Bi) | 0.029 | mg/kg | 29-SEP-11 | 0.030 | 30 | 3.4 | | 27-OCT-11 | DAG |
| L1062763-3 | MET-200.2-MS-WP | 2 | Boron (B) | 22.0 | mg/kg | 03-OCT-11 | 23.1 | 30 | 4.9 | | 27-OCT-11 | DAG |
| L1062763-9 | MET-200.2-MS-WP | 2 | Arsenic (As) | 6.41 | mg/kg | 03-OCT-11 | 7.57 | 30 | 16.6 | | 27-OCT-11 | DAG |
| L1062772-6 | MET-200.2-MS-WP | 2 | Copper (Cu) | 172 | mg/kg | 29-SEP-11 | 47.0 | 30 | 114.2 | | 27-OCT-11 | DAG |

Sample Comments:

Analyst Comments: