

Appendix D
Water Quality Results

ENVIRO-TEST ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier | D.L | Units | Extracted | Analyzed | By | Batch |
|----------------------------------|---------|-----------|--------|----------|-----------|-----------|-----|---------|
| L308748-1 PUMPING WELL - UMA | | | | | | | | |
| Sample Date: 23-AUG-05 14:00 | | | | | | | | |
| Matrix: WATER | | | | | | | | |
| ROU4W Extractable | | | | | | | | |
| Hardness (as CaCO3) | 153 | | 0.2 | mg/L | | 29-AUG-05 | | |
| TDS (Calculated) | 177 | | 5 | mg/L | | 29-AUG-05 | | |
| pH | | | | | | | | |
| PH | 7.85 | | 0.01 | pH units | | 24-AUG-05 | DXN | R317305 |
| Turbidity | | | | | | | | |
| Turbidity | 23 | | 0.05 | NTU | | 24-AUG-05 | DXN | R317309 |
| Sulphate Soluble | | | | | | | | |
| Sulphate (SO4) - Soluble | 11 | | 9 | mg/L | | 24-AUG-05 | CLM | R317413 |
| Nitrate + Nitrite Soluble | | | | | | | | |
| Nitrate+Nitrite-N | <0.01 | RAMB | 0.01 | mg/L | | 24-AUG-05 | CLM | R317413 |
| Metal scan | | | | | | | | |
| Silver (Ag)-Extractable | <0.0005 | | 0.0005 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Aluminum (Al)-Extractable | 0.05 | | 0.02 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Arsenic (As)-Extractable | <0.0005 | | 0.0005 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Boron (B)-Extractable | 0.04 | | 0.02 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Barium (Ba)-Extractable | 0.0596 | | 0.0003 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Beryllium (Be)-Extractable | <0.001 | | 0.001 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Bismuth (Bi)-Extractable | <0.0003 | | 0.0003 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Calcium (Ca)-Extractable | 40.2 | | 0.05 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Cadmium (Cd)-Extractable | <0.0002 | | 0.0002 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Cobalt (Co)-Extractable | <0.0002 | | 0.0002 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Chromium (Cr)-Extractable | 0.002 | | 0.001 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Cesium (Cs)-Extractable | <0.0001 | | 0.0001 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Copper (Cu)-Extractable | 0.0014 | | 0.0004 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Iron (Fe)-Extractable | 0.36 | | 0.01 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Potassium (K)-Extractable | 1.25 | | 0.05 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Lithium (Li)-Extractable | <0.005 | | 0.005 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Magnesium (Mg)-Extractable | 12.7 | | 0.01 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Manganese (Mn)-Extractable | 0.0437 | | 0.0002 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Molybdenum (Mo)-Extractable | 0.0007 | | 0.0001 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Sodium (Na)-Extractable | 3.58 | | 0.02 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Nickel (Ni)-Extractable | <0.0002 | | 0.0002 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Phosphorus (P)-Extractable | 0.03 | | 0.02 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Lead (Pb)-Extractable | 0.0005 | | 0.0001 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Rubidium (Rb)-Extractable | 0.0008 | | 0.0002 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Antimony (Sb)-Extractable | <0.001 | | 0.001 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Selenium (Se)-Extractable | <0.001 | | 0.001 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Silicon (Si)-Extractable | 7.4 | | 0.2 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Tin (Sn)-Extractable | <0.0003 | | 0.0003 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Strontium (Sr)-Extractable | 0.0610 | | 0.0001 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Tellurium (Te)-Extractable | <0.0005 | | 0.0005 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Titanium (Ti)-Extractable | 0.0009 | | 0.0005 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Thallium (Tl)-Extractable | <0.0001 | | 0.0001 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Uranium (U)-Extractable | <0.0001 | | 0.0001 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Vanadium (V)-Extractable | 0.002 | | 0.001 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Tungsten (W)-Extractable | 0.0003 | | 0.0002 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Zinc (Zn)-Extractable | <0.005 | | 0.005 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Zirconium (Zr)-Extractable | <0.0004 | | 0.0004 | mg/L | | 26-AUG-05 | DAG | R318567 |
| Fluoride Soluble | | | | | | | | |
| Fluoride (F) - Soluble | 0.1 | | 0.1 | mg/L | | 24-AUG-05 | CLM | R317413 |

ENVIRO-TEST ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier | D.L. | Units | Extracted | Analyzed | By | Batch |
|--|--------|-----------|------|----------|-----------|-----------|-----|---------|
| L308748-1 PUMPING WELL - UMA | | | | | | | | |
| Sample Date: 23-AUG-05 14:00 | | | | | | | | |
| Matrix: WATER | | | | | | | | |
| ROU4W Extractable | | | | | | | | |
| Conductivity | | | | | | | | |
| Conductivity | 335 | | 0.4 | umhos/cm | | 24-AUG-05 | DXN | R317305 |
| Chloride Soluble | | | | | | | | |
| Chloride (Cl) - Soluble | <9 | | 9 | mg/L | | 24-AUG-05 | CLM | R317413 |
| Alkalinity | | | | | | | | |
| Alkalinity, Total (as CaCO3) | 180 | | 1 | mg/L | | 24-AUG-05 | DXN | R317305 |
| Bicarbonate (HCO3) | 220 | | 2 | mg/L | | 24-AUG-05 | DXN | R317305 |
| Carbonate (CO3) | <0.6 | | 0.6 | mg/L | | 24-AUG-05 | DXN | R317305 |
| Hydroxide (OH) | <0.4 | | 0.4 | mg/L | | 24-AUG-05 | DXN | R317305 |
| Refer to Referenced Information for Qualifiers (if any) and Methodology. | | | | | | | | |

Reference Information

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|----------------------------------|
| RAMB | Result Adjusted For Method Blank |

Methods Listed (if applicable):

| ETL Test Code | Matrix | Test Description | Preparation Method Reference(Based On) | Analytical Method Reference(Based On) |
|---|--------|---------------------------|--|---------------------------------------|
| ALK-TOT-WP | Water | Alkalinity | | APHA 4500B, 2510B, 2320B, 1998 |
| <p>Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. It is determined by titration with a standard solution of strong mineral acid to the successive HCO₃⁻ and H₂CO₃ endpoints indicated electrometrically.</p> | | | | |
| CL-SOL-WP | Water | Chloride Soluble | | APHA4500;1998/LACHAT;MAR 1997 |
| <p>Chloride - Colourimetric using Mercuric Thiocyanate</p> | | | | |
| EC-WP | Water | Conductivity | | APHA 4500B, 2510B, 2320B, 1998 |
| <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-EXT-WP | Water | Hardness Calculated | | Calculated |
| F-SOL-WP | Water | Fluoride Soluble | | APHA4500;1998/LACHAT;MAR 1997 |
| <p>Fluoride - Ion selective electrode</p> | | | | |
| IONBALANCE-OP05-WP | Water | | | APHA 1030E |
| MET-SCAN-EXT-LOW-WP | Water | Metal scan | | EPA 200.8 Rev 5.4 May 1994 |
| N2N3-SOL-WP | Water | Nitrate + Nitrite Soluble | | APHA4500;1998/LACHAT;MAR 1997 |
| PH-WP | Water | pH | | APHA 4500B, 2510B, 2320B, 1998 |
| <p>pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.</p> | | | | |
| SO4-SOL-WP | Water | Sulphate Soluble | | APHA4500;1998/LACHAT;MAR 1997 |
| <p>Sulphate - Turbidimetric</p> | | | | |
| TURBIDITY-WP | Water | Turbidity | | APHA, 1998, 2130B |
| <p>A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles is detected by the photocell. The electrical response is proportional to the sample turbidity.</p> | | | | |

**** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.**

Chain of Custody numbers:

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

| Laboratory Definition Code | Laboratory Location | Laboratory Definition Code | Laboratory Location |
|----------------------------|---|----------------------------|---------------------|
| WP | Enviro-Test Laboratories - Winnipeg, Manitoba, Canada | | |

Samples Requiring Regular Turnaround

| <u>Sample #</u> | <u>Client sample ID</u> | <u>Sample #</u> | <u>Client sample ID</u> |
|-----------------|-------------------------|-----------------|-------------------------|
| L308748-1 | PUMPING WELL - UMA | | |

Reference Information

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds. The reported surrogate recovery value provides a measure of method efficiency. The Laboratory warning units are determined under column heading D.L.

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

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

< - Less than

D.L. - Detection Limit

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

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

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

UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.

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

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

ANALYTICAL REPORT

UMA ENGINEERING
ATTN: S WIECEK
1479 BUFFALO PLACE
WINNIPEG MB R3T 1L7

DATE: 10-NOV-05

Lab Work Order #: L337647

Sampled By: SJW

Date Received: 04-NOV-05

Project P.O. #:

Project Reference: F415-001-00

Comments: The portion of the sample for metals analysis was preserved by the client prior to submission.

APPROVED BY: *Paul Nicolas*

PAUL NICOLAS
Project Manager

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

ENVIRO-TEST ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier | D.L | Units | Extracted | Analyzed | By | Batch |
|-----------------------------------|---------|-----------|--------|-----------|-----------|-----------|-----|---------|
| L337647-1 PW-1 | | | | | | | | |
| Sample Date: 03-NOV-05 14:00 | | | | | | | | |
| Matrix: WATER | | | | | | | | |
| BTEX,TVH and TEH | | | | | | | | |
| Tot. Extr. Hydrocarbons (C11-C30) | | | | | | | | |
| TEH (C11-C30) | <0.1 | | 0.1 | mg/L | 08-NOV-05 | 09-NOV-05 | HDT | R344530 |
| TVH (C5-C10) | | | | | | | | |
| Total Volatiles | <0.1 | | 0.1 | mg/L | | 08-NOV-05 | TJJ | R344763 |
| BTEX | | | | | | | | |
| Benzene | <0.0005 | | 0.0005 | mg/L | | 08-NOV-05 | TJJ | R344763 |
| Toluene | <0.0005 | | 0.0005 | mg/L | | 08-NOV-05 | TJJ | R344763 |
| Ethylbenzene | <0.0005 | | 0.0005 | mg/L | | 08-NOV-05 | TJJ | R344763 |
| m+p-Xylenes | <0.0005 | | 0.0005 | mg/L | | 08-NOV-05 | TJJ | R344763 |
| o-Xylene | <0.0005 | | 0.0005 | mg/L | | 08-NOV-05 | TJJ | R344763 |
| Xylenes | <0.0005 | | 0.0005 | mg/L | | 08-NOV-05 | TJJ | R344763 |
| Calcium (Ca)-Dissolved | 43.9 | | 0.05 | mg/L | 04-NOV-05 | 05-NOV-05 | DAG | R343445 |
| Heterotrophic Plate Count | <10 | | 10 | CFU/mL | 04-NOV-05 | 07-NOV-05 | ABG | R343657 |
| Langelier Index (4 C) | 0.22 | | | | | 07-NOV-05 | | |
| Langelier Index (60 C) | 0.99 | | | | | 07-NOV-05 | | |
| Sulphide | 0.008 | | 0.003 | mg/L | | 09-NOV-05 | SHC | R344730 |
| Sulphide (as H2S) | 0.009 | | 0.003 | mg/L | | 09-NOV-05 | | |
| TC and EC by MPN | | | | | | | | |
| Total Coliform | | | | | | | | |
| Total Coliform | 3 | | 3 | MPN/100mL | | 09-NOV-05 | MJS | R344524 |
| Escherichia Coli | | | | | | | | |
| Escherichia Coli | <3 | | 3 | MPN/100mL | | 08-NOV-05 | MJS | R344524 |
| WDG Background | | | | | | | | |
| Sulphate Dissolved | | | | | | | | |
| Sulphate (SO4) - Dissolved | <9 | | 9 | mg/L | 04-NOV-05 | 04-NOV-05 | CLM | R343618 |
| Nitrate + Nitrite Dissolved | | | | | | | | |
| Nitrate+Nitrite-N - Dissolved | 0.02 | RAMB | 0.01 | mg/L | 04-NOV-05 | 04-NOV-05 | CLM | R343618 |
| Chloride Dissolved | | | | | | | | |
| Chloride (Cl) - Dissolved | <9 | | 9 | mg/L | 04-NOV-05 | 04-NOV-05 | CLM | R343618 |
| Ammonia Dissolved | | | | | | | | |
| Ammonia (NH3) - Dissolved | 0.07 | | 0.01 | mg/L | 04-NOV-05 | 04-NOV-05 | CLM | R343618 |
| Phosphorus, Total | | | | | | | | |
| Total Phosphorous | 0.036 | | 0.001 | mg/L | | 07-NOV-05 | LJH | R343791 |
| Chromium (Cr)-Total | | | | | | | | |
| Chromium (Cr)-Total | 0.001 | | 0.001 | mg/L | 04-NOV-05 | 05-NOV-05 | DAG | R343445 |
| Arsenic (As)-Total | | | | | | | | |
| Arsenic (As)-Total | <0.0005 | | 0.0005 | mg/L | 04-NOV-05 | 05-NOV-05 | DAG | R343445 |
| pH | | | | | | | | |
| PH | 7.98 | | 0.01 | pH units | | 04-NOV-05 | DXN | R343599 |
| Turbidity | | | | | | | | |
| Turbidity | 2.4 | | 0.05 | NTU | | 04-NOV-05 | DXN | R343598 |
| Total Suspended Solids | | | | | | | | |
| Total Suspended Solids | <5 | | 5 | mg/L | | 07-NOV-05 | LVP | R344261 |
| Total Kjeldahl Nitrogen | | | | | | | | |
| Total Kjeldahl Nitrogen | <0.2 | | 0.2 | mg/L | 04-NOV-05 | 09-NOV-05 | LDE | R344742 |
| Total Dissolved Solids | | | | | | | | |
| Total Dissolved Solids | 190 | | 5 | mg/L | | 07-NOV-05 | LVP | R344261 |
| Prep for metals, total | | | | | | | | |
| Metal scan | | | | | | | | |
| Silver (Ag)-Extractable | <0.0005 | | 0.0005 | mg/L | | 05-NOV-05 | DAG | R343445 |

ENVIRO-TEST ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier | D.L. | Units | Extracted | Analyzed | By | Batch |
|------------------------------|---------|-----------|--------|----------|-----------|-----------|-----|---------|
| L337647-1 PW-1 | | | | | | | | |
| Sample Date: 03-NOV-05 14:00 | | | | | | | | |
| Matrix: WATER | | | | | | | | |
| WDG Background | | | | | | | | |
| Metal scan | | | | | | | | |
| Aluminum (Al)-Extractable | <0.02 | | 0.02 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Arsenic (As)-Extractable | <0.0005 | | 0.0005 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Boron (B)-Extractable | <0.02 | | 0.02 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Barium (Ba)-Extractable | 0.0673 | | 0.0003 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Beryllium (Be)-Extractable | <0.001 | | 0.001 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Bismuth (Bi)-Extractable | <0.0003 | | 0.0003 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Calcium (Ca)-Extractable | 41.9 | | 0.05 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Cadmium (Cd)-Extractable | <0.0002 | | 0.0002 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Cobalt (Co)-Extractable | <0.0002 | | 0.0002 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Chromium (Cr)-Extractable | <0.001 | | 0.001 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Cesium (Cs)-Extractable | <0.0001 | | 0.0001 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Copper (Cu)-Extractable | <0.0004 | | 0.0004 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Iron (Fe)-Extractable | 0.35 | | 0.01 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Potassium (K)-Extractable | 1.50 | | 0.05 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Lithium (Li)-Extractable | <0.005 | | 0.005 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Magnesium (Mg)-Extractable | 13.0 | | 0.01 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Manganese (Mn)-Extractable | 0.0450 | | 0.0002 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Molybdenum (Mo)-Extractable | 0.0007 | | 0.0001 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Sodium (Na)-Extractable | 2.57 | | 0.02 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Nickel (Ni)-Extractable | 0.0017 | | 0.0002 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Phosphorus (P)-Extractable | 0.03 | | 0.02 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Lead (Pb)-Extractable | <0.0001 | | 0.0001 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Rubidium (Rb)-Extractable | 0.0007 | | 0.0002 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Antimony (Sb)-Extractable | <0.001 | | 0.001 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Selenium (Se)-Extractable | <0.001 | | 0.001 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Silicon (Si)-Extractable | 6.6 | | 0.2 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Tin (Sn)-Extractable | <0.0003 | | 0.0003 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Strontium (Sr)-Extractable | 0.0595 | | 0.0001 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Tellurium (Te)-Extractable | <0.0005 | | 0.0005 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Titanium (Ti)-Extractable | <0.0005 | | 0.0005 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Thallium (Tl)-Extractable | <0.0001 | | 0.0001 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Uranium (U)-Extractable | <0.0001 | | 0.0001 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Vanadium (V)-Extractable | <0.001 | | 0.001 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Tungsten (W)-Extractable | <0.0002 | | 0.0002 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Zinc (Zn)-Extractable | <0.005 | | 0.005 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Zirconium (Zr)-Extractable | <0.0004 | | 0.0004 | mg/L | | 05-NOV-05 | DAG | R343445 |
| Hardness Calculated | | | | | | | | |
| Hardness (as CaCO3) | 163 | | 0.2 | mg/L | | 07-NOV-05 | | |
| Cyanide, Free | | | | | | | | |
| Cyanide, Free | <0.01 | | 0.01 | mg/L | | 07-NOV-05 | MB | R343922 |
| Conductivity | | | | | | | | |
| Conductivity | 325 | | 0.4 | umhos/cm | | 04-NOV-05 | DXN | R343599 |
| Chemical Oxygen Demand | | | | | | | | |
| Chemical Oxygen Demand | <8 | | 8 | mg/L | | 08-NOV-05 | SXG | R344384 |
| Alkalinity | | | | | | | | |
| Alkalinity, Total (as CaCO3) | 173 | | 1 | mg/L | | 04-NOV-05 | DXN | R343599 |
| Bicarbonate (HCO3) | 211 | | 2 | mg/L | | 04-NOV-05 | DXN | R343599 |
| Carbonate (CO3) | <0.6 | | 0.6 | mg/L | | 04-NOV-05 | DXN | R343599 |
| Hydroxide (OH) | <0.4 | | 0.4 | mg/L | | 04-NOV-05 | DXN | R343599 |

ENVIRO-TEST ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier | D.C. | Units | Extracted | Analyzed | By | Batch |
|---|--------|-----------|------|-------|-----------|----------|----|-------|
| Refer to Referenced Information for Qualifiers (if any) and Methodology | | | | | | | | |

Reference Information

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|----------------------------------|
| RAMB | Result Adjusted For Method Blank |

Methods Listed (if applicable):

| ETL Test Code | Matrix | Test Description | Preparation Method Reference(Based On) | Analytical Method Reference(Based On) |
|---------------|--------|------------------|--|---------------------------------------|
| ALK-TOT-WP | Water | Alkalinity | | APHA 4500B, 2510B, 2320B, 1998 |

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

| | | | | |
|---------------|-------|--------------------|--|----------------------------|
| AS-TOT-LOW-WP | Water | Arsenic (As)-Total | | EPA 200.8 Rev 5.4 May 1994 |
| BTX-WP | Water | BTEX | | EPA SW846,5030,8015 |

Volatile organic compounds are extracted (purged) by bubbling nitrogen through a water sample. The purged sample components are trapped in a tube containing a sorbent material. When purging is complete, the tube is heated and back flushed with helium to desorb the trapped compounds onto a gas chromatographic column. The gas chromatograph is temperature programmed to separate the method analytes which are then detected with a photoionization detector (PID) followed by a flame ionization detector (FID).

| | | | | |
|---------------|-------|------------------------|--|------------------------------|
| CA-DIS-LOW-WP | Water | Calcium (Ca)-Dissolved | | EPA 200.8 Rev 5.4 May 1994 |
| CL-DIS-WP | Water | Chloride Dissolved | | APHA4500;1998/LCHAT;MAR 1997 |

Chloride - Colourimetric using Mercuric Thiocyanate

| | | | | |
|------------|-------|------------------------|--|--|
| CN-FREE-WP | Water | Cyanide, Free | | APHA 4500CN C E-Strong acid Dist Colorim |
| COD-WP | Water | Chemical Oxygen Demand | | APHA 5220 D |

The Chemical Oxygen Demand (COD) test is used to estimate the amount of organic matter in the water. The sample is added to HACH brand COD tubes, which contain a premixed volume of reagents. The sample is then heated for two hours on the COD reactor with a strong oxidizing agent, potassium dichromate. The COD reagents also contain silver and mercury ions. Silver is used as a catalyst and mercury is used to complex chloride interference. Oxidizable organic compounds react, reducing the dichromate ion to green chromic ion.

For the 10 - 150 mg/L range the remaining Cr⁶⁺ is measured colorimetrically and a decrease in absorbance at 420 nm is proportional to the COD. For the 100 - 1500 mg/L range the amount of Cr³⁺ produced is measured colorimetrically and an increase in absorbance at 620 nm is proportional to the COD. Samples with concentrations > 1500 mg/L can be diluted into either linear range.

| | | | | |
|---------------|-------|---------------------|--|----------------------------|
| CR-TOT-LOW-WP | Water | Chromium (Cr)-Total | | EPA 200.8 Rev 5.4 May 1994 |
| EC-MPN-WP | Water | Escherichia Coli | | APHA 9221A-C |

The Most Probable Number (MPN) method is based on the Multiple Tube Fermentation technique. The results of examination of replicate tubes and dilutions of a sample are reported after confirmations specific to total coliform, fecal coliform and E. coli are performed. Results are reported in MPN/100 mL for water and MPN/gram for food and solid samples.

| | | | | |
|-------|-------|--------------|--|--------------------------------|
| EC-WP | Water | Conductivity | | APHA 4500B, 2510B, 2320B, 1998 |
|-------|-------|--------------|--|--------------------------------|

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-EXT-WP | Water | Hardness Calculated | | Calculated |
| ETL-LANGELIER-4-WP | Water | Langelier Index 4C | | Calculated |
| ETL-LANGELIER-60-WP | Water | Langelier Index 60C | | Calculated |
| HPC-PP-WP | Water | Heterotrophic Plate Count | | APHA 9215B, 1998 |

This is a procedure for estimating the number of live heterotrophic bacteria in water and measuring changes during water treatment and distribution or in swimming pools. In the pour plate method, samples are diluted and plated on to media. After incubation, the colonies are counted and reported as CFU/mL.

| | | | | |
|---------------------|-------|------------|--|----------------------------|
| MET-SCAN-EXT-LOW-WP | Water | Metal scan | | EPA 200.8 Rev 5.4 May 1994 |
|---------------------|-------|------------|--|----------------------------|

| | | | | |
|------------|-------|-------------------------|--|--|
| 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.

Reference Information

| | | | |
|---|-------|-----------------------------------|---------------------------------|
| Ammonia - Colourimetric using Salicylate-nitroprusside and hypochlorite, in an alkaline phosphate buffer. | | | |
| P-TOTAL-WP | Water | Phosphorus, Total | APHA, 1998 |
| <p>Samples are digested using a sulphuric acid-persulphate mixture to convert organic phosphorous to orthophosphate. The samples are analyzed by either the Flow Injection Analysis (FIA) or the Segmented Flow Analysis (SFA) method. The absorbance measured by the instrument is proportional the concentration of orthophosphate in the sample, and is reported as phosphorous. Samples are analyzed for total or total dissolved phosphorous depending on the sample pretreatment.</p> | | | |
| PH-WP | Water | pH | APHA 4500B, 2510B, 2320B, 1998 |
| <p>pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.</p> | | | |
| S04-DIS-WP | Water | Sulphate Dissolved | APHA4500;1998/LACHAT;MAR 1997 |
| <p>Sulphate - Turbidimetric</p> | | | |
| SOLIDS-TDS-WP | Water | Total Dissolved Solids | APHA 2540 |
| <p>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.</p> | | | |
| SOLIDS-TOTSUS-WP | Water | Total Suspended Solids | APHA 2540 |
| <p>The residue retained by a prepared 1.5 um Whatman 934-AH glass microfibre filter dried at 105 degrees C.</p> | | | |
| SULPHIDE-ED | Water | Sulphide | APHA 4500 -S E-Auto-Colorimetry |
| SULPHIDE>H2S-ED | Water | Sulphide as Hydrogen Sulphide | Calculation from Sulphide |
| TC-MPN-WP | Water | Total Coliform | APHA 9221A-C |
| <p>The Most Probable Number (MPN) method is based on the Multiple Tube Fermentation technique. The results of examination of replicate tubes and dilutions of a sample are reported after confirmations specific to total coliform, fecal coliform and E. coli are performed. Results are reported in MPN/100 mL for water and MPN/gram for food and solid samples.</p> | | | |
| TEH-WP | Water | Tot. Extr. Hydrocarbons (C11-C30) | EPA SW846,8000A |
| <p>This is the semi-quantitative determination of total extractable hydrocarbons (TEH) C11-C30 in water, soil and sediment samples. A water sample volume of 240 mLs in a 250 mL glass amber bottle is shaken with 2-4 mL hexane for one hour on a wrist action shaker, then sonicated for 5 minutes. soil/sediment sample of 25 grams is weighed out with sodium sulphate and extracted with 10 mLs hexane/acetone for one hour on a wrist action shaker then sonicated for 5 minutes. After extraction, the solvent layer is drawn off and analysed against a calibrated diesel standard on a gas chromatograph equipped with a flame ionization detector. All results are reported on a dry weight basis. By special request, the result can be calculated on C10-C24 meet specific regulations.</p> | | | |
| TURBIDITY-WP | Water | Turbidity | APHA, 1998, 2130B |
| <p>A strong light beam is sent through a transparent tube containing the sample. Light that is reflected at 90 degrees to the axis by suspended particles detected by the photocell. The electrical response is proportional to the sample turbidity.</p> | | | |
| TVH-WP | Water | TVH (C5-C10) | EPA SW846,5030,8015 |
| <p>Volatile organic compounds are extracted (purged) by bubbling nitrogen through a water sample. The purged sample components are trapped in a tube containing a sorbent material. When purging is complete, the tube is heated and back flushed with helium to desorb the trapped compounds onto a chromatographic column. The gas chromatograph is temperature programmed to separate the method analytes which are then detected with a photoionization detector (PID) followed by a flame ionization detector (FID).</p> | | | |

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

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

| Laboratory Definition Code | Laboratory Location | Laboratory Definition Code | Laboratory Location |
|----------------------------|--|----------------------------|---|
| ED | Enviro-Test Laboratories - Edmonton, Alberta, Canada | WP | Enviro-Test Laboratories - Winnipeg, Manitoba, Canada |

Reference Information

GLOSSARY OF REPORT TERMS

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

The reported surrogate recovery value provides a measure of method efficiency. The Laboratory warning units are determined under column heading D.L.

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

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

< - Less than

D.L. - Detection Limit

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

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

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

UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.

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

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

Enviro-Test Quality Control Report

Workorder: L337647

 Client: UMA ENGINEERING
 1479 BUFFALO PLACE
 WINNIPEG MB R3T 1L7

Contact: S WIECEK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------|---------|--------------|---------|-----------|-------|--------|--------|-----------|
| ALK-TOT-WP | | <u>Water</u> | | | | | | |
| Batch | R343599 | | | | | | | |
| WG374938-5 | CVS | | | | | | | |
| Alkalinity, Total (as CaCO3) | | | 100 | | % | | 93-107 | 04-NOV-05 |
| WG374938-6 | DUP | L337647-1 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 173 | 171 | | mg/L | 1.6 | 3.8 | 04-NOV-05 |
| Bicarbonate (HCO3) | | 211 | 208 | | mg/L | 1.6 | 20 | 04-NOV-05 |
| Carbonate (CO3) | | <0.6 | <0.6 | RPD-NA | mg/L | N/A | 20 | 04-NOV-05 |
| Hydroxide (OH) | | <0.4 | <0.4 | RPD-NA | mg/L | N/A | 20 | 04-NOV-05 |
| WG374938-9 | DUP | L337680-4 | | | | | | |
| Alkalinity, Total (as CaCO3) | | 514 | 513 | | mg/L | 0.29 | 3.8 | 04-NOV-05 |
| Bicarbonate (HCO3) | | 627 | 625 | | mg/L | 0.29 | 20 | 04-NOV-05 |
| Carbonate (CO3) | | <0.6 | <0.6 | RPD-NA | mg/L | N/A | 20 | 04-NOV-05 |
| Hydroxide (OH) | | <0.4 | <0.4 | RPD-NA | mg/L | N/A | 20 | 04-NOV-05 |
| AS-TOT-LOW-WP | | <u>Water</u> | | | | | | |
| Batch | R343445 | | | | | | | |
| WG374758-4 | CCV | | | | | | | |
| Arsenic (As)-Total | | | 100 | | % | | 93-107 | 04-NOV-05 |
| WG374758-2 | CVS | | | | | | | |
| Arsenic (As)-Total | | | 98 | | % | | 75-125 | 04-NOV-05 |
| WG374758-3 | CVS | | | | | | | |
| Arsenic (As)-Total | | | 97 | | % | | 75-125 | 04-NOV-05 |
| WG374434-4 | DUP | WG374434-3 | | | | | | |
| Arsenic (As)-Total | | 0.0037 | 0.0039 | J | mg/L | 0.0002 | 0.0015 | 05-NOV-05 |
| WG374434-2 | LCS | | | | | | | |
| Arsenic (As)-Total | | | 96 | | % | | 80-120 | 05-NOV-05 |
| WG374434-1 | MB | | | | | | | |
| Arsenic (As)-Total | | | <0.0005 | | mg/L | | 0.0025 | 05-NOV-05 |
| BTX-WP | | <u>Water</u> | | | | | | |
| Batch | R344763 | | | | | | | |
| WG376384-1 | CCV | | | | | | | |
| Benzene | | | 89 | | % | | 87-113 | 08-NOV-05 |
| Ethylbenzene | | | 97 | | % | | 87-113 | 08-NOV-05 |
| m+p-Xylenes | | | 96 | | % | | 87-113 | 08-NOV-05 |
| o-Xylene | | | 97 | | % | | 87-113 | 08-NOV-05 |
| Toluene | | | 99 | | % | | 87-113 | 08-NOV-05 |
| Xylenes | | | 97 | | % | | 70-130 | 08-NOV-05 |
| WG376384-2 | CCV | | | | | | | |

Enviro-Test Quality Control Report

Workorder: L337647

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|---------|--------------|---------|-----------|-------|-----|--------|-----------|
| BTX-WP | | Water | | | | | | |
| Batch | R344763 | | | | | | | |
| WG376384-2 | CCV | | | | | | | |
| Benzene | | | 89 | | % | | 87-113 | 08-NOV-05 |
| Ethylbenzene | | | 99 | | % | | 87-113 | 08-NOV-05 |
| m+p-Xylenes | | | 98 | | % | | 87-113 | 08-NOV-05 |
| o-Xylene | | | 100 | | % | | 87-113 | 08-NOV-05 |
| Toluene | | | 103 | | % | | 87-113 | 08-NOV-05 |
| Xylenes | | | 99 | | % | | 70-130 | 08-NOV-05 |
| WG376384-3 | CVS | | | | | | | |
| Benzene | | | 98 | | % | | 87-113 | 08-NOV-05 |
| Ethylbenzene | | | 91 | | % | | 87-113 | 08-NOV-05 |
| m+p-Xylenes | | | 112 | | % | | 87-113 | 08-NOV-05 |
| o-Xylene | | | 93 | | % | | 87-113 | 08-NOV-05 |
| Toluene | | | 95 | | % | | 87-113 | 08-NOV-05 |
| Xylenes | | | 102 | | % | | 70-130 | 08-NOV-05 |
| WG376350-1 | MB | | | | | | | |
| Benzene | | | <0.0005 | | mg/L | | 0.0005 | 08-NOV-05 |
| Ethylbenzene | | | <0.0005 | | mg/L | | 0.0005 | 08-NOV-05 |
| m+p-Xylenes | | | <0.0005 | | mg/L | | 0.0005 | 08-NOV-05 |
| o-Xylene | | | <0.0005 | | mg/L | | 0.0005 | 08-NOV-05 |
| Toluene | | | <0.0005 | | mg/L | | 0.0005 | 08-NOV-05 |
| Xylenes | | | <0.0005 | | mg/L | | 0.0005 | 08-NOV-05 |
| CA-DIS-LOW-WP | | Water | | | | | | |
| Batch | R343445 | | | | | | | |
| WG374758-4 | CCV | | | | | | | |
| Calcium (Ca)-Dissolved | | | 98 | | % | | 93-107 | 04-NOV-05 |
| WG374758-2 | CVS | | | | | | | |
| Calcium (Ca)-Dissolved | | | 98 | | % | | 75-125 | 04-NOV-05 |
| WG374758-3 | CVS | | | | | | | |
| Calcium (Ca)-Dissolved | | | 98 | | % | | 75-125 | 04-NOV-05 |
| WG374326-3 | DUP | WG374326-2 | | | | | | |
| Calcium (Ca)-Dissolved | | 677 | 627 | | mg/L | 7.7 | 15 | 05-NOV-05 |
| WG374326-1 | MB | | | | | | | |
| Calcium (Ca)-Dissolved | | | <0.05 | | mg/L | | 0.05 | 05-NOV-05 |
| CL-DIS-WP | | Water | | | | | | |
| Batch | R343618 | | | | | | | |
| WG374955-3 | CCV | | | | | | | |
| Chloride (Cl) - Dissolved | | | 99 | | % | | 93-107 | 04-NOV-05 |
| WG374955-2 | CVS | | | | | | | |
| Chloride (Cl) - Dissolved | | | 103 | | % | | 93-107 | 04-NOV-05 |
| WG374231-1 | MB | | | | | | | |

Enviro-Test Quality Control Report

Workorder: L337647

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|---------|--------------|--------|-----------|-------|-------|--------|-----------|
| CL-DIS-WP | | Water | | | | | | |
| Batch | R343618 | | | | | | | |
| WG374231-1 | MB | | | | | | | |
| Chloride (Cl) - Dissolved | | | <9 | | mg/L | | 9 | 04-NOV-05 |
| CN-FREE-WP | | Water | | | | | | |
| Batch | R343922 | | | | | | | |
| WG375333-2 | CCV | | | | | | | |
| Cyanide, Free | | | 97 | | % | | 87-113 | 07-NOV-05 |
| WG375333-1 | CVS | | | | | | | |
| Cyanide, Free | | | 98 | | % | | 87-113 | 07-NOV-05 |
| WG375333-4 | MB | | | | | | | |
| Cyanide, Free | | | <0.01 | | mg/L | | 0.01 | 07-NOV-05 |
| WG375333-3 | MS | L338027-1 | | | | | | |
| Cyanide, Free | | | 101 | | % | | 80-121 | 07-NOV-05 |
| COD-WP | | Water | | | | | | |
| Batch | R344384 | | | | | | | |
| WG375927-3 | CCV | | | | | | | |
| Chemical Oxygen Demand | | | 97 | | % | | 93-107 | 08-NOV-05 |
| WG375927-2 | CVS | | | | | | | |
| Chemical Oxygen Demand | | | 95 | | % | | 93-107 | 08-NOV-05 |
| WG375927-4 | DUP | L336770-1 | | | | | | |
| Chemical Oxygen Demand | | 12 | 10 | J | mg/L | 2 | 25 | 08-NOV-05 |
| WG375927-1 | MB | | | | | | | |
| Chemical Oxygen Demand | | | <8 | | mg/L | | 8 | 08-NOV-05 |
| CR-TOT-LOW-WP | | Water | | | | | | |
| Batch | R343445 | | | | | | | |
| WG374758-4 | CCV | | | | | | | |
| Chromium (Cr)-Total | | | 99 | | % | | 93-107 | 04-NOV-05 |
| WG374758-2 | CVS | | | | | | | |
| Chromium (Cr)-Total | | | 98 | | % | | 75-125 | 04-NOV-05 |
| WG374758-3 | CVS | | | | | | | |
| Chromium (Cr)-Total | | | 99 | | % | | 75-125 | 04-NOV-05 |
| WG374434-4 | DUP | WG374434-3 | | | | | | |
| Chromium (Cr)-Total | | 0.003 | 0.003 | J | mg/L | 0.000 | 0.0031 | 05-NOV-05 |
| WG374434-2 | LCS | | | | | | | |
| Chromium (Cr)-Total | | | 99 | | % | | 80-120 | 05-NOV-05 |
| WG374434-1 | MB | | | | | | | |
| Chromium (Cr)-Total | | | <0.001 | | mg/L | | 0.005 | 05-NOV-05 |
| EC-WP | | Water | | | | | | |
| Batch | R343599 | | | | | | | |
| WG374938-2 | CCV | | | | | | | |
| Conductivity | | | 101 | | % | | 97-103 | 04-NOV-05 |
| WG374938-1 | CVS | | | | | | | |

Enviro-Test Quality Control Report

Workorder: L337647

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------------|---------|--------------|--------|-----------|----------|-------|--------|-----------|
| EC-WP | | Water | | | | | | |
| Batch | R343599 | | | | | | | |
| WG374938-1 | CVS | | | | | | | |
| Conductivity | | | 100 | | % | | 93-107 | 04-NOV-05 |
| WG374938-6 | DUP | L337647-1 | | | | | | |
| Conductivity | | 325 | 324 | | umhos/cm | 0.24 | 3.8 | 04-NOV-05 |
| WG374938-7 | DUP | L337681-1 | | | | | | |
| Conductivity | | 3980 | 3980 | | umhos/cm | 0.19 | 3.8 | 04-NOV-05 |
| WG374938-8 | DUP | L337852-1 | | | | | | |
| Conductivity | | 1230 | 1230 | | umhos/cm | 0.041 | 3.8 | 04-NOV-05 |
| MET-SCAN-EXT-LOW-WP | | Water | | | | | | |
| Batch | R343445 | | | | | | | |
| WG374758-4 | CCV | | | | | | | |
| Aluminum (Al)-Extractable | | | 100 | | % | | 93-107 | 04-NOV-05 |
| Antimony (Sb)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Arsenic (As)-Extractable | | | 100 | | % | | 93-107 | 04-NOV-05 |
| Barium (Ba)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Beryllium (Be)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Bismuth (Bi)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Boron (B)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Cadmium (Cd)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Calcium (Ca)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Cesium (Cs)-Extractable | | | 101 | | % | | 93-107 | 04-NOV-05 |
| Chromium (Cr)-Extractable | | | 99 | | % | | 93-107 | 04-NOV-05 |
| Cobalt (Co)-Extractable | | | 100 | | % | | 93-107 | 04-NOV-05 |
| Copper (Cu)-Extractable | | | 99 | | % | | 93-107 | 04-NOV-05 |
| Iron (Fe)-Extractable | | | 99 | | % | | 93-107 | 04-NOV-05 |
| Lead (Pb)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Lithium (Li)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Magnesium (Mg)-Extractable | | | 101 | | % | | 93-107 | 04-NOV-05 |
| Manganese (Mn)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Molybdenum (Mo)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Nickel (Ni)-Extractable | | | 100 | | % | | 93-107 | 04-NOV-05 |
| Phosphorus (P)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Potassium (K)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Rubidium (Rb)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Selenium (Se)-Extractable | | | 101 | | % | | 93-107 | 04-NOV-05 |
| Silicon (Si)-Extractable | | | 100 | | % | | 93-107 | 04-NOV-05 |
| Silver (Ag)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Sodium (Na)-Extractable | | | 101 | | % | | 93-107 | 04-NOV-05 |
| Strontium (Sr)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |

Enviro-Test Quality Control Report

Workorder: L337647

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------------|---------|--------------|--------|-----------|-------|-----|--------|-----------|
| MET-SCAN-EXT-LOW-WP | | Water | | | | | | |
| Batch | R343445 | | | | | | | |
| WG374758-4 | CCV | | | | | | | |
| Tellurium (Te)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Thallium (Tl)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Tin (Sn)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Titanium (Ti)-Extractable | | | 100 | | % | | 93-107 | 04-NOV-05 |
| Tungsten (W)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Uranium (U)-Extractable | | | 93 | H | % | | 93-107 | 04-NOV-05 |
| Vanadium (V)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Zinc (Zn)-Extractable | | | 99 | | % | | 93-107 | 04-NOV-05 |
| Zirconium (Zr)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| WG374758-2 | CVS | | | | | | | |
| Aluminum (Al)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Antimony (Sb)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Arsenic (As)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Barium (Ba)-Extractable | | | 95 | | % | | 93-107 | 04-NOV-05 |
| Beryllium (Be)-Extractable | | | 95 | | % | | 93-107 | 04-NOV-05 |
| Bismuth (Bi)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Boron (B)-Extractable | | | 101 | | % | | 93-107 | 04-NOV-05 |
| Cadmium (Cd)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Calcium (Ca)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Cesium (Cs)-Extractable | | | 101 | | % | | 93-107 | 04-NOV-05 |
| Chromium (Cr)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Cobalt (Co)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Copper (Cu)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Iron (Fe)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Lead (Pb)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Lithium (Li)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Magnesium (Mg)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Manganese (Mn)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Molybdenum (Mo)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Nickel (Ni)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Phosphorus (P)-Extractable | | | 95 | | % | | 93-107 | 04-NOV-05 |
| Potassium (K)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Rubidium (Rb)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Selenium (Se)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Silicon (Si)-Extractable | | | 95 | | % | | 75-125 | 04-NOV-05 |
| Silver (Ag)-Extractable | | | 97 | | % | | 75-125 | 04-NOV-05 |
| Sodium (Na)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |

Enviro-Test Quality Control Report

Workorder: L337647

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------------|---------|-----------|--------|-----------|-------|-----|--------|-----------|
| MET-SCAN-EXT-LOW-WP Water | | | | | | | | |
| Batch | R343445 | | | | | | | |
| WG374758-2 | CVS | | | | | | | |
| Strontium (Sr)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Tellurium (Te)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Thallium (Tl)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Tin (Sn)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Titanium (Ti)-Extractable | | | 94 | | % | | 93-107 | 04-NOV-05 |
| Tungsten (W)-Extractable | | | 95 | | % | | 93-107 | 04-NOV-05 |
| Uranium (U)-Extractable | | | 93 | H | % | | 93-107 | 04-NOV-05 |
| Vanadium (V)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Zinc (Zn)-Extractable | | | 99 | | % | | 93-107 | 04-NOV-05 |
| Zirconium (Zr)-Extractable | | | 95 | | % | | 93-107 | 04-NOV-05 |
| WG374758-3 | CVS | | | | | | | |
| Aluminum (Al)-Extractable | | | 91 | H | % | | 93-107 | 04-NOV-05 |
| Antimony (Sb)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Arsenic (As)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Barium (Ba)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Beryllium (Be)-Extractable | | | 99 | | % | | 93-107 | 04-NOV-05 |
| Bismuth (Bi)-Extractable | | | 94 | | % | | 93-107 | 04-NOV-05 |
| Boron (B)-Extractable | | | 99 | | % | | 93-107 | 04-NOV-05 |
| Cadmium (Cd)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Calcium (Ca)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Cesium (Cs)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Chromium (Cr)-Extractable | | | 99 | | % | | 93-107 | 04-NOV-05 |
| Cobalt (Co)-Extractable | | | 95 | | % | | 93-107 | 04-NOV-05 |
| Copper (Cu)-Extractable | | | 95 | | % | | 93-107 | 04-NOV-05 |
| Iron (Fe)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Lead (Pb)-Extractable | | | 94 | | % | | 93-107 | 04-NOV-05 |
| Lithium (Li)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Magnesium (Mg)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Manganese (Mn)-Extractable | | | 94 | | % | | 93-107 | 04-NOV-05 |
| Molybdenum (Mo)-Extractable | | | 99 | | % | | 93-107 | 04-NOV-05 |
| Nickel (Ni)-Extractable | | | 95 | | % | | 93-107 | 04-NOV-05 |
| Phosphorus (P)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Potassium (K)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Rubidium (Rb)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Selenium (Se)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Silicon (Si)-Extractable | | | 100 | | % | | 75-125 | 04-NOV-05 |
| Silver (Ag)-Extractable | | | 98 | | % | | 75-125 | 04-NOV-05 |

Enviro-Test Quality Control Report

Workorder: L337647

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------------|---------|--------------|------------|-----------|-------|--------|---------|-----------|
| MET-SCAN-EXT-LOW-WP | | Water | | | | | | |
| Batch | R343445 | | | | | | | |
| WG374758-3 | CVS | | | | | | | |
| Sodium (Na)-Extractable | | | 101 | | % | | 93-107 | 04-NOV-05 |
| Strontium (Sr)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Tellurium (Te)-Extractable | | | 95 | | % | | 93-107 | 04-NOV-05 |
| Thallium (Tl)-Extractable | | | 93 | H | % | | 93-107 | 04-NOV-05 |
| Tin (Sn)-Extractable | | | 99 | | % | | 93-107 | 04-NOV-05 |
| Titanium (Ti)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Tungsten (W)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Uranium (U)-Extractable | | | 96 | | % | | 93-107 | 04-NOV-05 |
| Vanadium (V)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| Zinc (Zn)-Extractable | | | 97 | | % | | 93-107 | 04-NOV-05 |
| Zirconium (Zr)-Extractable | | | 98 | | % | | 93-107 | 04-NOV-05 |
| WG374758-6 | DUP | | WG374758-5 | | | | | |
| Aluminum (Al)-Extractable | | 0.02 | 0.02 | J | mg/L | 0.00 | 0.061 | 04-NOV-05 |
| Antimony (Sb)-Extractable | | <0.001 | <0.001 | RPD-NA | mg/L | N/A | 15 | 04-NOV-05 |
| Arsenic (As)-Extractable | | 0.0031 | 0.0032 | J | mg/L | 0.0001 | 0.0015 | 04-NOV-05 |
| Barium (Ba)-Extractable | | 0.0107 | 0.0106 | | mg/L | 1.3 | 15 | 04-NOV-05 |
| Beryllium (Be)-Extractable | | <0.001 | <0.001 | RPD-NA | mg/L | N/A | 15 | 04-NOV-05 |
| Bismuth (Bi)-Extractable | | <0.0003 | <0.0003 | RPD-NA | mg/L | N/A | 15 | 04-NOV-05 |
| Boron (B)-Extractable | | 0.22 | 0.23 | | mg/L | 3.8 | 15 | 04-NOV-05 |
| Cadmium (Cd)-Extractable | | <0.0002 | <0.0002 | RPD-NA | mg/L | N/A | 15 | 04-NOV-05 |
| Calcium (Ca)-Extractable | | 198 | 202 | | mg/L | 2.0 | 15 | 04-NOV-05 |
| Cesium (Cs)-Extractable | | <0.0001 | <0.0001 | RPD-NA | mg/L | N/A | 15 | 04-NOV-05 |
| Chromium (Cr)-Extractable | | 0.001 | 0.001 | J | mg/L | 0.000 | 0.0031 | 04-NOV-05 |
| Cobalt (Co)-Extractable | | 0.0014 | 0.0014 | J | mg/L | 0.0000 | 0.00061 | 04-NOV-05 |
| Copper (Cu)-Extractable | | 0.0068 | 0.0074 | | mg/L | 8.9 | 15 | 04-NOV-05 |
| Iron (Fe)-Extractable | | 0.94 | 0.99 | | mg/L | 4.9 | 15 | 04-NOV-05 |
| Lead (Pb)-Extractable | | 0.0012 | 0.0012 | | mg/L | 3.9 | 15 | 04-NOV-05 |
| Lithium (Li)-Extractable | | 0.225 | 0.225 | | mg/L | 0.025 | 15 | 04-NOV-05 |
| Magnesium (Mg)-Extractable | | 147 | 151 | | mg/L | 2.5 | 15 | 04-NOV-05 |
| Manganese (Mn)-Extractable | | 0.0376 | 0.0386 | | mg/L | 2.5 | 15 | 04-NOV-05 |
| Molybdenum (Mo)-Extractable | | 0.0003 | 0.0003 | J | mg/L | 0.0000 | 0.00031 | 04-NOV-05 |
| Nickel (Ni)-Extractable | | 0.0059 | 0.0070 | H | mg/L | 18 | 15 | 04-NOV-05 |
| Phosphorus (P)-Extractable | | <0.02 | <0.02 | RPD-NA | mg/L | N/A | 15 | 04-NOV-05 |
| Potassium (K)-Extractable | | 9.06 | 9.30 | | mg/L | 2.6 | 15 | 04-NOV-05 |
| Rubidium (Rb)-Extractable | | 0.0039 | 0.0040 | | mg/L | 2.5 | 15 | 04-NOV-05 |
| Selenium (Se)-Extractable | | <0.001 | <0.001 | RPD-NA | mg/L | N/A | 15 | 04-NOV-05 |
| Silicon (Si)-Extractable | | 6.5 | 6.6 | | mg/L | 2.6 | 15 | 04-NOV-05 |

Enviro-Test Quality Control Report

Workorder: L337647

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------------|---------|--------------|---------|-----------|-------|--------|---------|-----------|
| MET-SCAN-EXT-LOW-WP | | Water | | | | | | |
| Batch | R343445 | | | | | | | |
| WG374758-6 | DUP | WG374758-5 | | | | | | |
| Silver (Ag)-Extractable | | <0.0005 | <0.0005 | RPD-NA | mg/L | N/A | 15 | 04-NOV-05 |
| Sodium (Na)-Extractable | | 209 | 219 | | mg/L | 4.5 | 15 | 04-NOV-05 |
| Strontium (Sr)-Extractable | | 1.27 | 1.27 | | mg/L | 0.39 | 15 | 04-NOV-05 |
| Tellurium (Te)-Extractable | | <0.0005 | <0.0005 | RPD-NA | mg/L | N/A | 15 | 04-NOV-05 |
| Thallium (Tl)-Extractable | | 0.0004 | 0.0005 | J | mg/L | 0.0001 | 0.00031 | 04-NOV-05 |
| Tin (Sn)-Extractable | | <0.0003 | <0.0003 | RPD-NA | mg/L | N/A | 15 | 04-NOV-05 |
| Titanium (Ti)-Extractable | | 0.0060 | 0.0069 | | mg/L | 14 | 15 | 04-NOV-05 |
| Tungsten (W)-Extractable | | <0.0002 | <0.0002 | RPD-NA | mg/L | N/A | 15 | 04-NOV-05 |
| Uranium (U)-Extractable | | 0.0078 | 0.0077 | | mg/L | 1.0 | 15 | 04-NOV-05 |
| Vanadium (V)-Extractable | | 0.003 | 0.003 | J | mg/L | 0.000 | 0.0031 | 04-NOV-05 |
| Zinc (Zn)-Extractable | | 0.031 | 0.031 | J | mg/L | 0.000 | 0.015 | 04-NOV-05 |
| Zirconium (Zr)-Extractable | | <0.0004 | <0.0004 | RPD-NA | mg/L | N/A | 15 | 04-NOV-05 |
| WG374758-1 | MB | | | | | | | |
| Aluminum (Al)-Extractable | | | <0.02 | | mg/L | | 0.02 | 04-NOV-05 |
| Antimony (Sb)-Extractable | | | <0.001 | | mg/L | | 0.001 | 04-NOV-05 |
| Arsenic (As)-Extractable | | | <0.0005 | | mg/L | | 0.0005 | 04-NOV-05 |
| Barium (Ba)-Extractable | | | <0.0003 | | mg/L | | 0.0003 | 04-NOV-05 |
| Beryllium (Be)-Extractable | | | <0.001 | | mg/L | | 0.001 | 04-NOV-05 |
| Bismuth (Bi)-Extractable | | | <0.0003 | | mg/L | | 0.0003 | 04-NOV-05 |
| Boron (B)-Extractable | | | <0.02 | | mg/L | | 0.02 | 04-NOV-05 |
| Cadmium (Cd)-Extractable | | | <0.0002 | | mg/L | | 0.0002 | 04-NOV-05 |
| Calcium (Ca)-Extractable | | | <0.05 | | mg/L | | 0.05 | 04-NOV-05 |
| Cesium (Cs)-Extractable | | | <0.0001 | | mg/L | | 0.0001 | 04-NOV-05 |
| Chromium (Cr)-Extractable | | | <0.001 | | mg/L | | 0.001 | 04-NOV-05 |
| Cobalt (Co)-Extractable | | | <0.0002 | | mg/L | | 0.0002 | 04-NOV-05 |
| Copper (Cu)-Extractable | | | <0.0004 | | mg/L | | 0.0004 | 04-NOV-05 |
| Iron (Fe)-Extractable | | | <0.01 | | mg/L | | 0.01 | 04-NOV-05 |
| Lead (Pb)-Extractable | | | <0.0001 | | mg/L | | 0.0001 | 04-NOV-05 |
| Lithium (Li)-Extractable | | | <0.005 | | mg/L | | 0.005 | 04-NOV-05 |
| Magnesium (Mg)-Extractable | | | <0.01 | | mg/L | | 0.01 | 04-NOV-05 |
| Manganese (Mn)-Extractable | | | <0.0002 | | mg/L | | 0.0002 | 04-NOV-05 |
| Molybdenum (Mo)-Extractable | | | <0.0001 | | mg/L | | 0.0001 | 04-NOV-05 |
| Nickel (Ni)-Extractable | | | <0.0002 | | mg/L | | 0.0002 | 04-NOV-05 |
| Phosphorus (P)-Extractable | | | <0.02 | | mg/L | | 0.02 | 04-NOV-05 |
| Potassium (K)-Extractable | | | <0.05 | | mg/L | | 0.05 | 04-NOV-05 |
| Rubidium (Rb)-Extractable | | | <0.0002 | | mg/L | | 0.0002 | 04-NOV-05 |
| Selenium (Se)-Extractable | | | <0.001 | | mg/L | | 0.001 | 04-NOV-05 |

Enviro-Test Quality Control Report

Workorder: L337647

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------------------|---------|---------------------|---------|-----------|-------|-----|--------|-----------|
| <u>MET-SCAN-EXT-LOW-WP</u> | | <u>Water</u> | | | | | | |
| Batch | R343445 | | | | | | | |
| WG374758-1 | MB | | | | | | | |
| Silicon (Si)-Extractable | | | <0.2 | | mg/L | | 0.2 | 04-NOV-05 |
| Silver (Ag)-Extractable | | | <0.0005 | | mg/L | | 0.0005 | 04-NOV-05 |
| Sodium (Na)-Extractable | | | <0.02 | | mg/L | | 0.02 | 04-NOV-05 |
| Strontium (Sr)-Extractable | | | <0.0001 | | mg/L | | 0.0001 | 04-NOV-05 |
| Tellurium (Te)-Extractable | | | <0.0005 | | mg/L | | 0.0005 | 04-NOV-05 |
| Thallium (Tl)-Extractable | | | <0.0001 | | mg/L | | 0.0001 | 04-NOV-05 |
| Tin (Sn)-Extractable | | | <0.0003 | | mg/L | | 0.0003 | 04-NOV-05 |
| Titanium (Ti)-Extractable | | | <0.0005 | | mg/L | | 0.0005 | 04-NOV-05 |
| Tungsten (W)-Extractable | | | <0.0002 | | mg/L | | 0.0002 | 04-NOV-05 |
| Uranium (U)-Extractable | | | <0.0001 | | mg/L | | 0.0001 | 04-NOV-05 |
| Vanadium (V)-Extractable | | | <0.001 | | mg/L | | 0.001 | 04-NOV-05 |
| Zinc (Zn)-Extractable | | | <0.005 | | mg/L | | 0.005 | 04-NOV-05 |
| Zirconium (Zr)-Extractable | | | <0.0004 | | mg/L | | 0.0004 | 04-NOV-05 |
| <u>N-TOTKJ-WP</u> | | <u>Water</u> | | | | | | |
| Batch | R344742 | | | | | | | |
| WG376370-2 | CCV | | | | | | | |
| Total Kjeldahl Nitrogen | | | 101 | | % | | 93-107 | 09-NOV-05 |
| WG376370-1 | CVS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 100 | | % | | 93-107 | 09-NOV-05 |
| WG375875-2 | LCS | | | | | | | |
| Total Kjeldahl Nitrogen | | | 108 | | % | | 79-115 | 09-NOV-05 |
| WG375875-1 | MB | | | | | | | |
| Total Kjeldahl Nitrogen | | | <0.2 | | mg/L | | 0.2 | 09-NOV-05 |
| WG375875-3 | MS | L337767-31 | | | | | | |
| Total Kjeldahl Nitrogen | | | 112 | E | % | | 79-115 | 09-NOV-05 |
| <u>N2N3-DIS-WP</u> | | <u>Water</u> | | | | | | |
| Batch | R343618 | | | | | | | |
| WG374955-3 | CCV | | | | | | | |
| Nitrate+Nitrite-N - Dissolved | | | 100 | | % | | 93-107 | 04-NOV-05 |
| WG374955-2 | CVS | | | | | | | |
| Nitrate+Nitrite-N - Dissolved | | | 107 | H | % | | 93-107 | 04-NOV-05 |
| WG374231-1 | MB | | | | | | | |
| Nitrate+Nitrite-N - Dissolved | | | 0.03 | | mg/L | | 0.05 | 04-NOV-05 |
| <u>NH3-DIS-WP</u> | | <u>Water</u> | | | | | | |
| Batch | R343618 | | | | | | | |
| WG374955-3 | CCV | | | | | | | |
| Ammonia (NH3) - Dissolved | | | 99 | | % | | 93-107 | 04-NOV-05 |
| WG374955-2 | CVS | | | | | | | |
| Ammonia (NH3) - Dissolved | | | 101 | | % | | 93-107 | 04-NOV-05 |

Enviro-Test Quality Control Report

Workorder: L337647

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|---------|--------------|--------|-----------|----------|-------|--------|-----------|
| NH3-DIS-WP | | Water | | | | | | |
| Batch | R343618 | | | | | | | |
| WG374231-1 | MB | | | | | | | |
| Ammonia (NH3) - Dissolved | | | <0.01 | | mg/L | | 0.01 | 04-NOV-05 |
| P-TOTAL-WP | | Water | | | | | | |
| Batch | R343791 | | | | | | | |
| WG374916-1 | CCV | | | | | | | |
| Total Phosphorous | | | 101 | | % | | 93-107 | 07-NOV-05 |
| WG374916-2 | CCV | | | | | | | |
| Total Phosphorous | | | 100 | | % | | 93-107 | 07-NOV-05 |
| WG374528-2 | CVS | | | | | | | |
| Total Phosphorous | | | 102 | | % | | 93-107 | 07-NOV-05 |
| WG374528-3 | CVS | | | | | | | |
| Total Phosphorous | | | 95 | | % | | 93-107 | 07-NOV-05 |
| WG374528-4 | DUP | L337647-1 | | | | | | |
| Total Phosphorous | | 0.036 | 0.038 | | mg/L | 5.7 | 17 | 07-NOV-05 |
| WG374528-5 | DUP | L337680-2 | | | | | | |
| Total Phosphorous | | 1.12 | 1.21 | | mg/L | 7.2 | 17 | 07-NOV-05 |
| WG374528-6 | DUP | L337681-1 | | | | | | |
| Total Phosphorous | | 0.009 | 0.009 | J | mg/L | 0.000 | 0.0031 | 07-NOV-05 |
| WG374528-1 | MB | | | | | | | |
| Total Phosphorous | | | <0.005 | | mg/L | | 0.025 | 07-NOV-05 |
| WG374528-7 | MS | L337064-2 | | | | | | |
| Total Phosphorous | | | 95 | E | % | | 84-114 | 07-NOV-05 |
| H-WP | | Water | | | | | | |
| Batch | R343599 | | | | | | | |
| WG374938-4 | CCV | | | | | | | |
| PH | | | 100 | | % | | 93-107 | 04-NOV-05 |
| WG374938-3 | CVS | | | | | | | |
| PH | | | 101 | | % | | 97-103 | 04-NOV-05 |
| WG374938-6 | DUP | L337647-1 | | | | | | |
| PH | | 7.98 | 7.98 | | pH units | 0.078 | 3.8 | 04-NOV-05 |
| WG374938-7 | DUP | L337681-1 | | | | | | |
| PH | | 6.58 | 6.57 | | pH units | 0.13 | 3.8 | 04-NOV-05 |
| WG374938-8 | DUP | L337852-1 | | | | | | |
| PH | | 7.67 | 7.68 | | pH units | 0.076 | 3.8 | 04-NOV-05 |
| O4-DIS-WP | | Water | | | | | | |
| Batch | R343618 | | | | | | | |
| WG374955-3 | CCV | | | | | | | |
| Sulphate (SO4) - Dissolved | | | 100 | | % | | 93-107 | 04-NOV-05 |
| WG374955-2 | CVS | | | | | | | |
| Sulphate (SO4) - Dissolved | | | 101 | | % | | 93-107 | 04-NOV-05 |
| WG374231-1 | MB | | | | | | | |

Enviro-Test Quality Control Report

Workorder: L337647

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|---------|--------------|--------|-----------|-------|-------|--------|-----------|
| SO4-DIS-WP | | Water | | | | | | |
| Batch | R343618 | | | | | | | |
| WG374231-1 | MB | | | | | | | |
| Sulphate (SO4) - Dissolved | | | <9 | | mg/L | | 9 | 04-NOV-05 |
| SOLIDS-TDS-WP | | Water | | | | | | |
| Batch | R344261 | | | | | | | |
| WG375047-3 | CVS | | | | | | | |
| Total Dissolved Solids | | | 100 | | % | | 96-104 | 07-NOV-05 |
| WG375047-4 | CVS | | | | | | | |
| Total Dissolved Solids | | | 101 | | % | | 96-104 | 07-NOV-05 |
| WG375047-6 | DUP | L338024-1 | | | | | | |
| Total Dissolved Solids | | 1500 | 1500 | | mg/L | 0.81 | 7.7 | 07-NOV-05 |
| WG375047-1 | MB | | | | | | | |
| Total Dissolved Solids | | | <5 | | mg/L | | 5 | 07-NOV-05 |
| WG375047-2 | MB | | | | | | | |
| Total Dissolved Solids | | | <5 | | mg/L | | 5 | 07-NOV-05 |
| SOLIDS-TOTSUS-WP | | Water | | | | | | |
| Batch | R344261 | | | | | | | |
| WG375047-3 | CVS | | | | | | | |
| Total Suspended Solids | | | 102 | | % | | 86-108 | 07-NOV-05 |
| WG375047-4 | CVS | | | | | | | |
| Total Suspended Solids | | | 100 | | % | | 86-108 | 07-NOV-05 |
| WG375047-5 | DUP | L337755-1 | | | | | | |
| Total Suspended Solids | | 71 | 73 | | mg/L | 2.8 | 15 | 07-NOV-05 |
| WG375047-6 | DUP | L338024-1 | | | | | | |
| Total Suspended Solids | | 420 | 420 | | mg/L | 0.95 | 15 | 07-NOV-05 |
| WG375047-1 | MB | | | | | | | |
| Total Suspended Solids | | | <5 | | mg/L | | 5 | 07-NOV-05 |
| WG375047-2 | MB | | | | | | | |
| Total Suspended Solids | | | <5 | | mg/L | | 5 | 07-NOV-05 |
| SULPHIDE-ED | | Water | | | | | | |
| Batch | R344730 | | | | | | | |
| WG376226-4 | DUP | L336966-3 | | | | | | |
| Sulphide | | 0.023 | 0.026 | J | mg/L | 0.003 | 0.0092 | 09-NOV-05 |
| WG376226-6 | DUP | L338767-4 | | | | | | |
| Sulphide | | <0.003 | <0.003 | RPD-NA | mg/L | N/A | 12 | 09-NOV-05 |
| WG376226-2 | LCS | | | | | | | |
| Sulphide | | | 86 | | % | | 54-107 | 09-NOV-05 |
| WG376226-3 | LCS | | | | | | | |
| Sulphide | | | 108 | | % | | 71-112 | 09-NOV-05 |
| WG376226-1 | MB | | | | | | | |
| Sulphide | | | <0.003 | | mg/L | | 0.003 | 09-NOV-05 |
| WG376226-5 | MS | L338127-1 | | | | | | |

Enviro-Test Quality Control Report

Workorder: L337647

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------|---------|--------------|--------|-----------|-------|-----|--------|-----------|
| SULPHIDE-ED | | Water | | | | | | |
| Batch | R344730 | | | | | | | |
| WG376226-5 | MS | L338127-1 | 110 | | % | | 51-133 | 09-NOV-05 |
| Sulphide | | | | | | | | |
| TEH-WP | | Water | | | | | | |
| Batch | R344530 | | | | | | | |
| WG376129-2 | CCV | | 103 | | % | | 70-130 | 09-NOV-05 |
| TEH (C11-C30) | | | | | | | | |
| WG376129-1 | CVS | | 97 | | % | | 87-129 | 09-NOV-05 |
| TEH (C11-C30) | | | | | | | | |
| WG375661-2 | LCS | | 135 | H | % | | 73-131 | 09-NOV-05 |
| TEH (C11-C30) | | | | | | | | |
| WG375661-1 | MB | | <0.1 | | mg/L | | 0.1 | 09-NOV-05 |
| TEH (C11-C30) | | | | | | | | |
| TURBIDITY-WP | | Water | | | | | | |
| Batch | R343598 | | | | | | | |
| WG374937-2 | CCV | | 101 | | % | | 97-103 | 04-NOV-05 |
| Turbidity | | | | | | | | |
| WG374937-1 | CVS | | 101 | | % | | 93-107 | 04-NOV-05 |
| Turbidity | | | | | | | | |
| WG374937-4 | DUP | L337363-1 | 0.95 | | NTU | 0.0 | 15 | 04-NOV-05 |
| Turbidity | | | | | | | | |
| WG374937-3 | MB | | <0.05 | | NTU | | 0.05 | 04-NOV-05 |
| Turbidity | | | | | | | | |
| TVH-WP | | Water | | | | | | |
| Batch | R344763 | | | | | | | |
| WG376384-1 | CCV | | 97 | | % | | 87-113 | 08-NOV-05 |
| Total Volatiles | | | | | | | | |
| WG376384-2 | CCV | | 102 | | % | | 87-113 | 08-NOV-05 |
| Total Volatiles | | | | | | | | |
| WG376384-3 | CVS | | 97 | | % | | 87-113 | 08-NOV-05 |
| Total Volatiles | | | | | | | | |
| WG376350-3 | DUP | L338009-4 | <0.1 | RPD-NA | mg/L | N/A | 12 | 08-NOV-05 |
| Total Volatiles | | | | | | | | |
| WG376350-1 | MB | | <0.1 | | mg/L | | 0.1 | 08-NOV-05 |
| Total Volatiles | | | | | | | | |
| WG376350-2 | MS | L338009-5 | 90 | | % | | 80-120 | 08-NOV-05 |
| Total Volatiles | | | | | | | | |

ENVIRO-TEST QC REPORT

Workorder # L337647

Legend:

Limit 95% Confidence Interval (Laboratory Warning Limits)
DUP Duplicate
RPD Relative Percent Difference
N/A Not Available
LCS Laboratory Control Sample
SRM Standard Reference Material
MS Matrix Spike
MSD Matrix Spike Duplicate
ADE Average Desorption Efficiency
MB Method Blank
IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Qualifier:

RPD-NA Relative Percent Difference Not Available due to result(s) being less than detection limit.
A Method blank exceeds acceptance limit. Blank correction not applied, unless the qualifier "RAMB" (result adjusted for method blank) appears in the Analytical Report.
B Method blank result exceeds acceptance limit, however, it is less than 5% of sample concentration. Blank correction not applied.
E Matrix spike recovery may fall outside the acceptance limits due to high sample background.
F Silver recovery low, likely due to elevated chloride levels in sample.
G Outlier - No assignable cause for nonconformity has been determined.
H Result falls within the 99% Confidence Interval (Laboratory Control Limits)
J Duplicate results and limit(s) are expressed in terms of absolute difference.
K The sample referenced above is of a non-standard matrix type; standard QC acceptance criteria may not be achievable.

Manitoba Technology Centre Ltd.
 745 Logan Avenue, Winnipeg, Manitoba R9E 3L5
 9936 - 67th Avenue, Edmonton, Alberta T6E 3L5
 Edmonton Toll Free Line
 1313 - 44 Avenue N.E., Calgary, Alberta T2E 8L5
 General Purpose Bldg., 124 Veterinary Road, Saskatoon, Sask. S7N 5E3
 1081 Barton Street, Thunder Bay, Ontario P7B 5N3

CHAIN OF CUSTODY ANALYTICAL REQUEST FORM

Telephone: (204) 945-3705
 Telephone: (780) 413-5227
 Telephone: 1-800-668-9878
 Telephone: (403) 291-8997
 Telephone: (306) 668-8370
 Fax: (204) 945-0763
 Fax: (780) 437-2311
 Fax: 1-800-266-7319
 Fax: (403) 291-0299
 Fax: (306) 668-8383
 Fax: (807) 823-7598

DATE SUBMITTED: Nov. 7, 2005 DATE REQUIRED: _____

SERVICE REQUESTED:

REGULAR PRIORITY (50% SURCHARGE) EMERGENCY (100% SURCHARGE)

PRICING (CHECK ONE):
 AS PER QUOTE #:
 AS PER LIST PRICE:

| SAMPLE ID | SAMPLED BY | DATE / TIME SAMPLED | SAMPLE TYPE | PRESERVED | FILTERED | LAB SAMPLE NO. |
|-----------|------------|---------------------|-------------|-----------|----------|----------------|
| PW-1 | SIW | 08/11/05, 2:00PM | Water | | | 1 |
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SAMPLE RECEIVED (Y OR N)

SAMPLE BROKEN (Y OR N)

ANALYSIS REQUESTED:
 WDF - Background
 BTEX T, U, TEH
 HPC
 Sulfide - H2S - FI
 Sample for Solubility
 ETL - Analytical
 PH - ALK - CA

L337647

NOTES & CONDITIONS:
 1. Quote number must be provided to ensure proper pricing.
 2. All hazardous samples submitted must be labeled to comply with WHMIS regulations. This must include the nature of the hazard, as well as a contact name and phone number that the lab can contact for further information.
 3. ETL's liability limited to cost of analysis. NOTE: Failure to properly complete all portions of this form may delay analysis.

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

CLIENT: UMA Engineering Ltd
 CONTACT: S. Wiecek
 REPORT ADDRESS: 1479 Buffalo Place, Wpy, MB
 BILLING ADDRESS: Same
 NO. SAMPLES SUBMITTED: 1
 NO. BOTTLES/SAMPLES: 12
 PHONE: 284-0580
 FAX: 475-3646
 E-MAIL: YES NO
 E-MAIL ADDRESS: Steve.Wiecek@uma,acem.com
 R.O. NO.: F415-001-00
 JOB NO.: _____

RELINQUISHED BY: SW DATE: Nov. 7/05 RECEIVED BY:
 TIME: 8:30 AM ETL LAB: RECEIVED BY:
 DATE: TIME: Nov 4 ETL LAB: RECEIVED BY: M
 TIME: TIME: 10:15 ETL LAB: RECEIVED BY:

SAMPLE CONDITION UPON RECEIPT: ACCEPTABLE NON ACCEPTABLE
 FROZEN: _____ COLD: _____ AMBIENT: _____
 OTHER (BREAKAGE, LEAKAGE, ETC.): _____

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