

## ANALYTICAL REPORT

PROJECT NO. STANTEC STILL

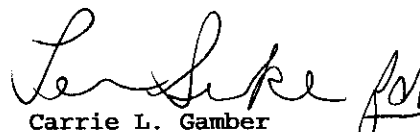
Stantec Stillwater Rvr Dam

Lot #: C0J060476

Tim Taylor

Stantec Consulting Services In  
1409 N Forbes Road  
Lexington, KY 40511-2050

TESTAMERICA LABORATORIES, INC.

  
Carrie L. Gamber  
Project Manager

October 29, 2010



**NELAC REPORTING:**

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate #    | Program Types              | TestAmerica |
|--------------------------|------------------|----------------------------|-------------|
| DoD ELAP                 | ADE-1442         | WW                         | X           |
| US Dept of Agriculture   | (#P330-10-00139) | HW                         | X           |
| Arkansas                 | (#88-0690)       | Foreign Soil Import Permit | X           |
| California – NELAC       | 04224CA          | WW                         | X           |
|                          |                  | HW                         | X           |
| Connecticut              | (#PH-0688)       | WW                         | X           |
|                          |                  | HW                         | X           |
| Florida – NELAC          | (#E871008)       | WW                         | X           |
|                          |                  | HW                         | X           |
| Illinois – NELAC         | (#002319)        | WW                         | X           |
|                          |                  | HW                         | X           |
| Kansas – NELAC           | (#E-10350)       | WW                         | X           |
|                          |                  | HW                         | X           |
| Louisiana – NELAC        | (#04041)         | WW                         | X           |
|                          |                  | HW                         | X           |
| New Hampshire – NELAC    | (#203010)        | WW                         | X           |
|                          |                  | -                          | --          |
| New Jersey – NELAC       | (PA-005)         | WW                         | X           |
|                          |                  | HW                         | X           |
| New York – NELAC         | (#11182)         | WW                         | X           |
|                          |                  | HW                         | X           |
| North Carolina           | (#434)           | WW                         | X           |
|                          |                  | HW                         | X           |
| Pennsylvania - NELAC     | (#02-00416)      | WW                         | X           |
|                          |                  | HW                         | X           |
| South Carolina           | (#89014002)      | WW                         | X           |
|                          |                  | HW                         | X           |
| Utah – NELAC             | (STLP)           | WW                         | X           |
|                          |                  | HW                         | X           |
| West Virginia            | (#142)           | WW                         | X           |
|                          |                  | HW                         | X           |
| Wisconsin                | 998027800        | WW                         | X           |
|                          |                  | HW                         | X           |

The codes utilized for program types are described below:

- HW Hazardous Waste certification
- WW Non-potable Water and/or Wastewater certification
- X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 05/19/10 N:\Reporting\NELAC NARRATIVE Pttsburgh\_Updated 051910.doc

**CASE NARRATIVE**  
**Stantec Consulting Corporation**

Lot# C0J060476

**Sample Receiving:**

TestAmerica's Pittsburgh laboratory received samples on October 6, 2010. The cooler was received within the proper temperature range.

Note: The initial weight extracted for the sediment samples was determined based on using 50% for the percent moisture of each sample.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

**GC/MS Volatiles:**

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

The continuing calibrations had compounds >25%D but they were within expected performance range for the compounds. All results were reported.

**GC/MS Semivolatiles:**

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Due to matrix interference, the samples were analyzed at a dilution.

The surrogates of the matrix spike and/or matrix spike duplicate recovered above control limits for several compounds.

**Pesticides:**

The matrix spike and/or matrix spike duplicate recovered outside control limits for several analytes.

**PCB's**

There were no problems associated with the analysis.

**Herbicides:**

There were no problems associated with the analysis.

**CASE NARRATIVE**  
**Stantec Consulting Corporation**

Lot# C0J060476

**Metals:**

The method blank had barium detected at a concentration between the MDL and the reporting limit. The result was flagged with a “B” qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a “J” qualifier.

**General Chemistry:**

There were no problems associated with the analysis.

**Chain of Custody Record**

TestAmerica Laboratory location:  DW  NPDES  RCRA  Other

|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
| <b>Client Contact</b><br>Company Name: STANTEC CONSULTING<br>Address: 11687 LEBANON RD<br>City/State/Zip: CINCINNATI, OH<br>Phone: 513 842 8200<br>Project Name: WEST MILTON DAM REMOVAL<br>Project Number:<br>P.O.#   |  | <b>Client Project Manager:</b><br>Name: SCOTT PEYTON<br>Telephone: 513 842 8217<br>Email: SCOTT.PEYTON@STANTEC.COM<br>Method of Shipment/Carrier:<br>Shipping/Tracking No: |  | <b>Site Contact:</b><br>Telephone:<br>TAT: if different from below<br><input type="checkbox"/> 3 weeks<br><input type="checkbox"/> 2 weeks<br><input type="checkbox"/> 1 week<br><input type="checkbox"/> 2 days<br><input type="checkbox"/> 1 day |  | <b>Lab Contact:</b><br>Telephone:<br>Analyzes:<br>VOC<br>SVOC<br>PESTICIDES<br>HERBICIDES<br>PCBs<br>METALS<br>MERCURY<br>TOTAL SOLIDS |  | TestAmerica Laboratories, Inc.<br>COC No: _____ of _____ COCs<br>Sample Specific Notes / Special Instructions: |  |
| Sample Identification<br>WM-1<br>WM-2<br>WM-3<br>WM-4  |  | Sample Date<br>10/5/10<br>10/5/10<br>10/5/10<br>10/5/10  |  | Sample Time<br>12:30pm<br>1:15pm<br>1:45pm<br>2:00pm   |  | Air<br>Aerosol<br>Bedrock<br>Solid<br>Other  |  | H2SO4<br>HNO3<br>HCl<br>NaOH<br>ZnAc<br>NaOH<br>Other:   |  |
| Possible Hazard Identification<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown<br>Special Instructions/QC Requirements & Comments: |  |  |  |  |  |  |  |  |  |
| Relinquished by: <i>Anthony J. Taylor</i><br>Relinquished by:<br>Relinquished by:  |  | Company: STANTEC<br>Company:<br>Company:   |  | Date/Time: 10/5/10 16:15<br>Date/Time:<br>Date/Time:   |  | Received by: <i>Eric Walker</i><br>Received by:<br>Received in Laboratory by: <i>[Signature]</i>                                       |  | Company: TA-Dayton<br>Company:<br>Company: STA   |  |
|  |  |  |  |  |  | Date/Time: 10/5/10 16:15<br>Date/Time:   |  | Date/Time: 10/6/10 10:00   |  |

# METHODS SUMMARY

C0J060476

| <u>PARAMETER</u>                              | <u>ANALYTICAL<br/>METHOD</u> | <u>PREPARATION<br/>METHOD</u> |
|---|------------------------------|-------------------------------|
| Chlorinated Herbicides by GC                  | SW846 8151A                  | SW846 8151A                   |
| Mercury in Solid Waste (Manual Cold-Vapor)    | SW846 7471A                  | SW846 7471A                   |
| Organochlorine Pesticides                     | SW846 8081A                  | SW846 3541                    |
| PCBs by SW-846 8082                           | SW846 8082                   | SW846 3541                    |
| Semivolatile Organics GCMS BNA 8270C          | SW846 8270C                  |                               |
| Total Residue as Percent Solids               | SM20 2540G                   |                               |
| Trace Inductively Coupled Plasma (ICP) Metals | SW846 6010B                  | SW846 3050B                   |
| Volatile Organics by GC/MS                    | SW846 8260B                  | SW846 5030B                   |

## References:

- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# SAMPLE SUMMARY

C0J060476

| <u>WO #</u> | <u>SAMPLE#</u> | <u>CLIENT SAMPLE ID</u> | <u>SAMPLED DATE</u> | <u>SAMP TIME</u> |
|-------------|----------------|-------------------------|---------------------|------------------|
| L7231       | 001            | WM-1                    | 10/05/10            | 12:30            |
| L7232       | 002            | WM-2                    | 10/05/10            | 13:15            |
| L7233       | 003            | WM-3                    | 10/05/10            | 13:45            |
| L7234       | 004            | WM-4                    | 10/05/10            | 14:00            |

**NOTE(S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filler test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Stantec Consulting Services Inc

Client Sample ID: WM-1

GC/MS Volatiles

Lot-Sample #...: C0J060476-001    Work Order #...: L72311AC    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received..: 10/06/10    MS Run #.....: 0280037  
 Prep Date.....: 10/07/10    Analysis Date..: 10/07/10  
 Prep Batch #...: 0280065    Analysis Time..: 11:00  
 Dilution Factor: 1  
 % Moisture.....: 43    Method.....: SW846 8260B

| PARAMETER                        | RESULT       | REPORTING  |              |
|----------------------------------|--------------|------------|--------------|
|                                  |              | LIMIT      | UNITS        |
| <b>Acetone</b>                   | <b>15 J</b>  | <b>35</b>  | <b>ug/kg</b> |
| Benzene                          | ND           | 8.8        | ug/kg        |
| Bromodichloromethane             | ND           | 8.8        | ug/kg        |
| Bromoform                        | ND           | 8.8        | ug/kg        |
| Bromomethane                     | ND           | 8.8        | ug/kg        |
| <b>2-Butanone</b>                | <b>5.5 J</b> | <b>8.8</b> | <b>ug/kg</b> |
| Carbon disulfide                 | ND           | 8.8        | ug/kg        |
| Carbon tetrachloride             | ND           | 8.8        | ug/kg        |
| Chlorobenzene                    | ND           | 8.8        | ug/kg        |
| Chloroethane                     | ND           | 8.8        | ug/kg        |
| Chloroform                       | ND           | 8.8        | ug/kg        |
| Chloromethane                    | ND           | 8.8        | ug/kg        |
| Cyclohexane                      | ND           | 8.8        | ug/kg        |
| Dibromochloromethane             | ND           | 8.8        | ug/kg        |
| 1,2-Dibromo-3-chloro-<br>propane | ND           | 8.8        | ug/kg        |
| 1,2-Dibromoethane                | ND           | 8.8        | ug/kg        |
| 1,3-Dichlorobenzene              | ND           | 8.8        | ug/kg        |
| 1,4-Dichlorobenzene              | ND           | 8.8        | ug/kg        |
| 1,2-Dichlorobenzene              | ND           | 8.8        | ug/kg        |
| Dichlorodifluoromethane          | ND           | 8.8        | ug/kg        |
| 1,1-Dichloroethane               | ND           | 8.8        | ug/kg        |
| 1,2-Dichloroethane               | ND           | 8.8        | ug/kg        |
| 1,1-Dichloroethene               | ND           | 8.8        | ug/kg        |
| cis-1,2-Dichloroethene           | ND           | 8.8        | ug/kg        |
| trans-1,2-Dichloroethene         | ND           | 8.8        | ug/kg        |
| 1,2-Dichloropropane              | ND           | 8.8        | ug/kg        |
| cis-1,3-Dichloropropene          | ND           | 8.8        | ug/kg        |
| trans-1,3-Dichloropropene        | ND           | 8.8        | ug/kg        |
| Ethylbenzene                     | ND           | 8.8        | ug/kg        |
| 2-Hexanone                       | ND           | 8.8        | ug/kg        |
| Isopropylbenzene                 | ND           | 8.8        | ug/kg        |
| Methyl acetate                   | ND           | 8.8        | ug/kg        |
| Methylene chloride               | ND           | 8.8        | ug/kg        |
| Methylcyclohexane                | ND           | 8.8        | ug/kg        |
| 4-Methyl-2-pentanone             | ND           | 8.8        | ug/kg        |
| Methyl tert-butyl ether          | ND           | 8.8        | ug/kg        |
| Styrene                          | ND           | 8.8        | ug/kg        |

(Continued on next page)



Stantec Consulting Services Inc

Client Sample ID: WM-1

GC/MS Volatiles

Lot-Sample #...: C0J060476-001 Work Order #...: L72311AC Matrix.....: SOLID

| <u>PARAMETER</u>                          | <u>RESULT</u> | <u>REPORTING</u> |              |
|---|---------------|------------------|--------------|
|   |               | <u>LIMIT</u>     | <u>UNITS</u> |
| 1,1,2,2-Tetrachloroethane                 | ND            | 8.8              | ug/kg        |
| 1,2,4-Trichloro-<br>benzene               | ND            | 8.8              | ug/kg        |
| Tetrachloroethene                         | ND            | 8.8              | ug/kg        |
| 1,1,1-Trichloroethane                     | ND            | 8.8              | ug/kg        |
| 1,1,2-Trichloroethane                     | ND            | 8.8              | ug/kg        |
| Trichloroethene                           | ND            | 8.8              | ug/kg        |
| Trichlorofluoromethane                    | ND            | 8.8              | ug/kg        |
| 1,1,2-Trichloro-<br>1,2,2-trifluoroethane | ND            | 8.8              | ug/kg        |
| Toluene                                   | ND            | 8.8              | ug/kg        |
| Vinyl chloride                            | ND            | 8.8              | ug/kg        |
| Xylenes (total)                           | ND            | 26               | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT</u>  | <u>RECOVERY</u> |
|-----------------------|-----------------|-----------------|
|                       | <u>RECOVERY</u> | <u>LIMITS</u>   |
| 1,2-Dichloroethane-d4 | 79              | (52 - 124)      |
| Toluene-d8            | 108             | (72 - 127)      |
| 4-Bromofluorobenzene  | 85              | (63 - 120)      |
| Dibromofluoromethane  | 96              | (68 - 121)      |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Stantec Consulting Services Inc

Client Sample ID: WM-2

GC/MS Volatiles

Lot-Sample #...: C0J060476-002    Work Order #...: L72321AC    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received..: 10/06/10    MS Run #.....: 0280037  
 Prep Date.....: 10/07/10    Analysis Date..: 10/07/10  
 Prep Batch #...: 0280065    Analysis Time..: 11:23  
 Dilution Factor: 1  
 % Moisture.....: 18    Method.....: SW846 8260B

| PARAMETER                        | RESULT | REPORTING |       |
|----------------------------------|--------|-----------|-------|
|                                  |        | LIMIT     | UNITS |
| Acetone                          | ND     | 24        | ug/kg |
| Benzene                          | ND     | 6.1       | ug/kg |
| Bromodichloromethane             | ND     | 6.1       | ug/kg |
| Bromoform                        | ND     | 6.1       | ug/kg |
| Bromomethane                     | ND     | 6.1       | ug/kg |
| 2-Butanone                       | ND     | 6.1       | ug/kg |
| Carbon disulfide                 | ND     | 6.1       | ug/kg |
| Carbon tetrachloride             | ND     | 6.1       | ug/kg |
| Chlorobenzene                    | ND     | 6.1       | ug/kg |
| Chloroethane                     | ND     | 6.1       | ug/kg |
| Chloroform                       | ND     | 6.1       | ug/kg |
| Chloromethane                    | ND     | 6.1       | ug/kg |
| Cyclohexane                      | ND     | 6.1       | ug/kg |
| Dibromochloromethane             | ND     | 6.1       | ug/kg |
| 1,2-Dibromo-3-chloro-<br>propane | ND     | 6.1       | ug/kg |
| 1,2-Dibromoethane                | ND     | 6.1       | ug/kg |
| 1,3-Dichlorobenzene              | ND     | 6.1       | ug/kg |
| 1,4-Dichlorobenzene              | ND     | 6.1       | ug/kg |
| 1,2-Dichlorobenzene              | ND     | 6.1       | ug/kg |
| Dichlorodifluoromethane          | ND     | 6.1       | ug/kg |
| 1,1-Dichloroethane               | ND     | 6.1       | ug/kg |
| 1,2-Dichloroethane               | ND     | 6.1       | ug/kg |
| 1,1-Dichloroethene               | ND     | 6.1       | ug/kg |
| cis-1,2-Dichloroethene           | ND     | 6.1       | ug/kg |
| trans-1,2-Dichloroethene         | ND     | 6.1       | ug/kg |
| 1,2-Dichloropropane              | ND     | 6.1       | ug/kg |
| cis-1,3-Dichloropropene          | ND     | 6.1       | ug/kg |
| trans-1,3-Dichloropropene        | ND     | 6.1       | ug/kg |
| Ethylbenzene                     | ND     | 6.1       | ug/kg |
| 2-Hexanone                       | ND     | 6.1       | ug/kg |
| Isopropylbenzene                 | ND     | 6.1       | ug/kg |
| Methyl acetate                   | ND     | 6.1       | ug/kg |
| Methylene chloride               | ND     | 6.1       | ug/kg |
| Methylcyclohexane                | ND     | 6.1       | ug/kg |
| 4-Methyl-2-pentanone             | ND     | 6.1       | ug/kg |
| Methyl tert-butyl ether          | ND     | 6.1       | ug/kg |
| Styrene                          | ND     | 6.1       | ug/kg |

(Continued on next page)

Stantec Consulting Services Inc

Client Sample ID: WM-2

GC/MS Volatiles

Lot-Sample #...: C0J060476-002 Work Order #...: L72321AC Matrix.....: SOLID

| <u>PARAMETER</u>                          | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|---|---------------|----------------------------|--------------|
| 1,1,2,2-Tetrachloroethane                 | ND            | 6.1                        | ug/kg        |
| 1,2,4-Trichloro-<br>benzene               | ND            | 6.1                        | ug/kg        |
| Tetrachloroethene                         | ND            | 6.1                        | ug/kg        |
| 1,1,1-Trichloroethane                     | ND            | 6.1                        | ug/kg        |
| 1,1,2-Trichloroethane                     | ND            | 6.1                        | ug/kg        |
| Trichloroethene                           | ND            | 6.1                        | ug/kg        |
| Trichlorofluoromethane                    | ND            | 6.1                        | ug/kg        |
| 1,1,2-Trichloro-<br>1,2,2-trifluoroethane | ND            | 6.1                        | ug/kg        |
| Toluene                                   | ND            | 6.1                        | ug/kg        |
| Vinyl chloride                            | ND            | 6.1                        | ug/kg        |
| Xylenes (total)                           | ND            | 18                         | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 80                          | (52 - 124)                 |
| Toluene-d8            | 105                         | (72 - 127)                 |
| 4-Bromofluorobenzene  | 82                          | (63 - 120)                 |
| Dibromofluoromethane  | 93                          | (68 - 121)                 |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-3

GC/MS Volatiles

Lot-Sample #...: C0J060476-003      Work Order #...: L72331AC      Matrix.....: SOLID  
 Date Sampled...: 10/05/10      Date Received...: 10/06/10      MS Run #.....: 0280037  
 Prep Date.....: 10/07/10      Analysis Date...: 10/07/10  
 Prep Batch #...: 0280065      Analysis Time...: 11:47  
 Dilution Factor: 1  
 % Moisture.....: 11      Method.....: SW846 8260B

| PARAMETER                        | RESULT | REPORTING |       |
|----------------------------------|--------|-----------|-------|
|                                  |        | LIMIT     | UNITS |
| Acetone                          | ND     | 22        | ug/kg |
| Benzene                          | ND     | 5.6       | ug/kg |
| Bromodichloromethane             | ND     | 5.6       | ug/kg |
| Bromoform                        | ND     | 5.6       | ug/kg |
| Bromomethane                     | ND     | 5.6       | ug/kg |
| 2-Butanone                       | ND     | 5.6       | ug/kg |
| Carbon disulfide                 | ND     | 5.6       | ug/kg |
| Carbon tetrachloride             | ND     | 5.6       | ug/kg |
| Chlorobenzene                    | ND     | 5.6       | ug/kg |
| Chloroethane                     | ND     | 5.6       | ug/kg |
| Chloroform                       | ND     | 5.6       | ug/kg |
| Chloromethane                    | ND     | 5.6       | ug/kg |
| Cyclohexane                      | ND     | 5.6       | ug/kg |
| Dibromochloromethane             | ND     | 5.6       | ug/kg |
| 1,2-Dibromo-3-chloro-<br>propane | ND     | 5.6       | ug/kg |
| 1,2-Dibromoethane                | ND     | 5.6       | ug/kg |
| 1,3-Dichlorobenzene              | ND     | 5.6       | ug/kg |
| 1,4-Dichlorobenzene              | ND     | 5.6       | ug/kg |
| 1,2-Dichlorobenzene              | ND     | 5.6       | ug/kg |
| Dichlorodifluoromethane          | ND     | 5.6       | ug/kg |
| 1,1-Dichloroethane               | ND     | 5.6       | ug/kg |
| 1,2-Dichloroethane               | ND     | 5.6       | ug/kg |
| 1,1-Dichloroethene               | ND     | 5.6       | ug/kg |
| cis-1,2-Dichloroethene           | ND     | 5.6       | ug/kg |
| trans-1,2-Dichloroethene         | ND     | 5.6       | ug/kg |
| 1,2-Dichloropropane              | ND     | 5.6       | ug/kg |
| cis-1,3-Dichloropropene          | ND     | 5.6       | ug/kg |
| trans-1,3-Dichloropropene        | ND     | 5.6       | ug/kg |
| Ethylbenzene                     | ND     | 5.6       | ug/kg |
| 2-Hexanone                       | ND     | 5.6       | ug/kg |
| Isopropylbenzene                 | ND     | 5.6       | ug/kg |
| Methyl acetate                   | ND     | 5.6       | ug/kg |
| Methylene chloride               | ND     | 5.6       | ug/kg |
| Methylcyclohexane                | ND     | 5.6       | ug/kg |
| 4-Methyl-2-pentanone             | ND     | 5.6       | ug/kg |
| Methyl tert-butyl ether          | ND     | 5.6       | ug/kg |
| Styrene                          | ND     | 5.6       | ug/kg |

(Continued on next page)

Stantec Consulting Services Inc

Client Sample ID: WM-3

GC/MS Volatiles

Lot-Sample #...: C0J060476-003 Work Order #...: L72331AC Matrix.....: SOLID

| <u>PARAMETER</u>                          | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|---|---------------|----------------------------|--------------|
| 1,1,2,2-Tetrachloroethane                 | ND            | 5.6                        | ug/kg        |
| 1,2,4-Trichloro-<br>benzene               | ND            | 5.6                        | ug/kg        |
| Tetrachloroethene                         | ND            | 5.6                        | ug/kg        |
| 1,1,1-Trichloroethane                     | ND            | 5.6                        | ug/kg        |
| 1,1,2-Trichloroethane                     | ND            | 5.6                        | ug/kg        |
| Trichloroethene                           | ND            | 5.6                        | ug/kg        |
| Trichlorofluoromethane                    | ND            | 5.6                        | ug/kg        |
| 1,1,2-Trichloro-<br>1,2,2-trifluoroethane | ND            | 5.6                        | ug/kg        |
| Toluene                                   | ND            | 5.6                        | ug/kg        |
| Vinyl chloride                            | ND            | 5.6                        | ug/kg        |
| Xylenes (total)                           | ND            | 17                         | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 82                          | (52 - 124)                 |
| Toluene-d8            | 110                         | (72 - 127)                 |
| 4-Bromofluorobenzene  | 86                          | (63 - 120)                 |
| Dibromofluoromethane  | 99                          | (68 - 121)                 |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-4

GC/MS Volatiles

Lot-Sample #...: C0J060476-004    Work Order #...: L72341AC    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received..: 10/06/10    MS Run #.....: 0280037  
 Prep Date.....: 10/07/10    Analysis Date..: 10/07/10  
 Prep Batch #...: 0280065    Analysis Time..: 12:10  
 Dilution Factor: 1  
 % Moisture.....: 29    Method.....: SW846 8260B

| PARAMETER                        | RESULT | REPORTING |       |
|----------------------------------|--------|-----------|-------|
|                                  |        | LIMIT     | UNITS |
| Acetone                          | ND     | 28        | ug/kg |
| Benzene                          | ND     | 7.1       | ug/kg |
| Bromodichloromethane             | ND     | 7.1       | ug/kg |
| Bromoform                        | ND     | 7.1       | ug/kg |
| Bromomethane                     | ND     | 7.1       | ug/kg |
| 2-Butanone                       | ND     | 7.1       | ug/kg |
| Carbon disulfide                 | ND     | 7.1       | ug/kg |
| Carbon tetrachloride             | ND     | 7.1       | ug/kg |
| Chlorobenzene                    | ND     | 7.1       | ug/kg |
| Chloroethane                     | ND     | 7.1       | ug/kg |
| Chloroform                       | ND     | 7.1       | ug/kg |
| Chloromethane                    | ND     | 7.1       | ug/kg |
| Cyclohexane                      | ND     | 7.1       | ug/kg |
| Dibromochloromethane             | ND     | 7.1       | ug/kg |
| 1,2-Dibromo-3-chloro-<br>propane | ND     | 7.1       | ug/kg |
| 1,2-Dibromoethane                | ND     | 7.1       | ug/kg |
| 1,3-Dichlorobenzene              | ND     | 7.1       | ug/kg |
| 1,4-Dichlorobenzene              | ND     | 7.1       | ug/kg |
| 1,2-Dichlorobenzene              | ND     | 7.1       | ug/kg |
| Dichlorodifluoromethane          | ND     | 7.1       | ug/kg |
| 1,1-Dichloroethane               | ND     | 7.1       | ug/kg |
| 1,2-Dichloroethane               | ND     | 7.1       | ug/kg |
| 1,1-Dichloroethene               | ND     | 7.1       | ug/kg |
| cis-1,2-Dichloroethene           | ND     | 7.1       | ug/kg |
| trans-1,2-Dichloroethene         | ND     | 7.1       | ug/kg |
| 1,2-Dichloropropane              | ND     | 7.1       | ug/kg |
| cis-1,3-Dichloropropene          | ND     | 7.1       | ug/kg |
| trans-1,3-Dichloropropene        | ND     | 7.1       | ug/kg |
| Ethylbenzene                     | ND     | 7.1       | ug/kg |
| 2-Hexanone                       | ND     | 7.1       | ug/kg |
| Isopropylbenzene                 | ND     | 7.1       | ug/kg |
| Methyl acetate                   | ND     | 7.1       | ug/kg |
| Methylene chloride               | ND     | 7.1       | ug/kg |
| Methylcyclohexane                | ND     | 7.1       | ug/kg |
| 4-Methyl-2-pentanone             | ND     | 7.1       | ug/kg |
| Methyl tert-butyl ether          | ND     | 7.1       | ug/kg |
| Styrene                          | ND     | 7.1       | ug/kg |

(Continued on next page)

Stantec Consulting Services Inc

Client Sample ID: WM-4

GC/MS Volatiles

Lot-Sample #...: C0J060476-004 Work Order #...: L72341AC Matrix.....: SOLID

| <u>PARAMETER</u>                          | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|---|---------------|----------------------------|--------------|
| 1,1,2,2-Tetrachloroethane                 | ND            | 7.1                        | ug/kg        |
| 1,2,4-Trichloro-<br>benzene               | ND            | 7.1                        | ug/kg        |
| Tetrachloroethene                         | ND            | 7.1                        | ug/kg        |
| 1,1,1-Trichloroethane                     | ND            | 7.1                        | ug/kg        |
| 1,1,2-Trichloroethane                     | ND            | 7.1                        | ug/kg        |
| Trichloroethene                           | ND            | 7.1                        | ug/kg        |
| Trichlorofluoromethane                    | ND            | 7.1                        | ug/kg        |
| 1,1,2-Trichloro-<br>1,2,2-trifluoroethane | ND            | 7.1                        | ug/kg        |
| Toluene                                   | ND            | 7.1                        | ug/kg        |
| Vinyl chloride                            | ND            | 7.1                        | ug/kg        |
| Xylenes (total)                           | ND            | 21                         | ug/kg        |

| <u>SURROGATE</u>      | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|-----------------------|-----------------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 83                          | (52 - 124)                 |
| Toluene-d8            | 108                         | (72 - 127)                 |
| 4-Bromofluorobenzene  | 86                          | (63 - 120)                 |
| Dibromofluoromethane  | 98                          | (68 - 121)                 |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C0J060476  
 MB Lot-Sample #: C0J070000-065  
 Analysis Date...: 10/07/10  
 Dilution Factor: 1

Work Order #...: L733K1AA  
 Prep Date.....: 10/07/10  
 Prep Batch #...: 0280065

Matrix.....: SOLID  
 Analysis Time...: 07:25

| PARAMETER                        | RESULT | REPORTING |       |             |
|----------------------------------|--------|-----------|-------|-------------|
|                                  |        | LIMIT     | UNITS | METHOD      |
| Acetone                          | ND     | 20        | ug/kg | SW846 8260B |
| Benzene                          | ND     | 5.0       | ug/kg | SW846 8260B |
| Bromodichloromethane             | ND     | 5.0       | ug/kg | SW846 8260B |
| Bromoform                        | ND     | 5.0       | ug/kg | SW846 8260B |
| Bromomethane                     | ND     | 5.0       | ug/kg | SW846 8260B |
| 2-Butanone                       | ND     | 5.0       | ug/kg | SW846 8260B |
| Carbon disulfide                 | ND     | 5.0       | ug/kg | SW846 8260B |
| Carbon tetrachloride             | ND     | 5.0       | ug/kg | SW846 8260B |
| Chlorobenzene                    | ND     | 5.0       | ug/kg | SW846 8260B |
| Chloroethane                     | ND     | 5.0       | ug/kg | SW846 8260B |
| Chloroform                       | ND     | 5.0       | ug/kg | SW846 8260B |
| Chloromethane                    | ND     | 5.0       | ug/kg | SW846 8260B |
| Cyclohexane                      | ND     | 5.0       | ug/kg | SW846 8260B |
| Dibromochloromethane             | ND     | 5.0       | ug/kg | SW846 8260B |
| 1,2-Dibromo-3-chloro-<br>propane | ND     | 5.0       | ug/kg | SW846 8260B |
| 1,2-Dibromoethane                | ND     | 5.0       | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene              | ND     | 5.0       | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene              | ND     | 5.0       | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene              | ND     | 5.0       | ug/kg | SW846 8260B |
| Dichlorodifluoromethane          | ND     | 5.0       | ug/kg | SW846 8260B |
| 1,1-Dichloroethane               | ND     | 5.0       | ug/kg | SW846 8260B |
| 1,2-Dichloroethane               | ND     | 5.0       | ug/kg | SW846 8260B |
| 1,1-Dichloroethene               | ND     | 5.0       | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene           | ND     | 5.0       | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene         | ND     | 5.0       | ug/kg | SW846 8260B |
| 1,2-Dichloropropane              | ND     | 5.0       | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene          | ND     | 5.0       | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene        | ND     | 5.0       | ug/kg | SW846 8260B |
| Ethylbenzene                     | ND     | 5.0       | ug/kg | SW846 8260B |
| 2-Hexanone                       | ND     | 5.0       | ug/kg | SW846 8260B |
| Isopropylbenzene                 | ND     | 5.0       | ug/kg | SW846 8260B |
| Methyl acetate                   | ND     | 5.0       | ug/kg | SW846 8260B |
| Methylene chloride               | ND     | 5.0       | ug/kg | SW846 8260B |
| Methylcyclohexane                | ND     | 5.0       | ug/kg | SW846 8260B |
| 4-Methyl-2-pentanone             | ND     | 5.0       | ug/kg | SW846 8260B |
| Methyl tert-butyl ether          | ND     | 5.0       | ug/kg | SW846 8260B |
| Styrene                          | ND     | 5.0       | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane        | ND     | 5.0       | ug/kg | SW846 8260B |
| 1,2,4-Trichloro-<br>benzene      | ND     | 5.0       | ug/kg | SW846 8260B |

(Continued on next page)



METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C0J060476

Work Order #...: L733K1AA

Matrix.....: SOLID

| <u>PARAMETER</u>                          | <u>RESULT</u> | <u>REPORTING</u> |              |               |
|---|---------------|------------------|--------------|---------------|
|   |               | <u>LIMIT</u>     | <u>UNITS</u> | <u>METHOD</u> |
| Tetrachloroethene                         | ND            | 5.0              | ug/kg        | SW846 8260B   |
| 1,1,1-Trichloroethane                     | ND            | 5.0              | ug/kg        | SW846 8260B   |
| 1,1,2-Trichloroethane                     | ND            | 5.0              | ug/kg        | SW846 8260B   |
| Trichloroethene                           | ND            | 5.0              | ug/kg        | SW846 8260B   |
| Trichlorofluoromethane                    | ND            | 5.0              | ug/kg        | SW846 8260B   |
| 1,1,2-Trichloro-<br>1,2,2-trifluoroethane | ND            | 5.0              | ug/kg        | SW846 8260B   |
| Toluene                                   | ND            | 5.0              | ug/kg        | SW846 8260B   |
| Vinyl chloride                            | ND            | 5.0              | ug/kg        | SW846 8260B   |
| Xylenes (total)                           | ND            | 15               | ug/kg        | SW846 8260B   |

| <u>SURROGATE</u>      | <u>PERCENT</u>  | <u>RECOVERY</u> |
|-----------------------|-----------------|-----------------|
|                       | <u>RECOVERY</u> | <u>LIMITS</u>   |
| 1,2-Dichloroethane-d4 | 88              | (52 - 124)      |
| Toluene-d8            | 102             | (72 - 127)      |
| 4-Bromofluorobenzene  | 86              | (63 - 120)      |
| Dibromofluoromethane  | 94              | (68 - 121)      |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C0J060476      Work Order #...: L733K1AC      Matrix.....: SOLID  
 LCS Lot-Sample#: C0J070000-065  
 Prep Date.....: 10/07/10      Analysis Date...: 10/07/10  
 Prep Batch #...: 0280065      Analysis Time...: 08:17  
 Dilution Factor: 1

| <u>PARAMETER</u>   | PERCENT<br><u>RECOVERY</u> | RECOVERY<br><u>LIMITS</u> | <u>METHOD</u> |
|--------------------|----------------------------|---------------------------|---------------|
| Benzene            | 101                        | (77 - 120)                | SW846 8260B   |
| Chlorobenzene      | 104                        | (79 - 120)                | SW846 8260B   |
| 1,1-Dichloroethene | 89                         | (59 - 129)                | SW846 8260B   |
| Trichloroethene    | 102                        | (76 - 119)                | SW846 8260B   |
| Toluene            | 106                        | (78 - 124)                | SW846 8260B   |

| <u>SURROGATE</u>      | PERCENT<br><u>RECOVERY</u> | RECOVERY<br><u>LIMITS</u> |
|-----------------------|----------------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 87                         | (52 - 124)                |
| Toluene-d8            | 110                        | (72 - 127)                |
| 4-Bromofluorobenzene  | 94                         | (63 - 120)                |
| Dibromofluoromethane  | 101                        | (68 - 121)                |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C0J060476      Work Order #...: L7WNM1D2-MS      Matrix.....: SOLID  
 MS Lot-Sample #: C0J020450-001      L7WNM1D3-MSD  
 Date Sampled...: 09/29/10      Date Received...: 10/02/10      MS Run #.....: 0280037  
 Prep Date.....: 10/07/10      Analysis Date...: 10/07/10  
 Prep Batch #...: 0280065      Analysis Time...: 08:40  
 Dilution Factor: 1      % Moisture.....: 12

| <u>PARAMETER</u>   | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> |
|--------------------|-------------------------|------------------------|------------|-------------------|---------------|
| Benzene            | 98                      | (77 - 120)             |            |                   | SW846 8260B   |
|                    | 98                      | (77 - 120)             | 0.38       | (0-20)            | SW846 8260B   |
| Chlorobenzene      | 100                     | (79 - 120)             |            |                   | SW846 8260B   |
|                    | 101                     | (79 - 120)             | 0.39       | (0-20)            | SW846 8260B   |
| 1,1-Dichloroethene | 89                      | (59 - 129)             |            |                   | SW846 8260B   |
|                    | 77                      | (59 - 129)             | 15         | (0-25)            | SW846 8260B   |
| Trichloroethene    | 100                     | (76 - 119)             |            |                   | SW846 8260B   |
|                    | 100                     | (76 - 119)             | 0.10       | (0-21)            | SW846 8260B   |
| Toluene            | 98                      | (78 - 124)             |            |                   | SW846 8260B   |
|                    | 103                     | (78 - 124)             | 4.6        | (0-21)            | SW846 8260B   |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| 1,2-Dichloroethane-d4 | 84                      | (52 - 124)             |
|                       | 84                      | (52 - 124)             |
| Toluene-d8            | 104                     | (72 - 127)             |
|                       | 106                     | (72 - 127)             |
| 4-Bromofluorobenzene  | 92                      | (63 - 120)             |
|                       | 90                      | (63 - 120)             |
| Dibromofluoromethane  | 98                      | (68 - 121)             |
|                       | 98                      | (68 - 121)             |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters  
 Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-1

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-001    Work Order #...: L72311AD    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received...: 10/06/10    MS Run #.....: 0281030  
 Prep Date.....: 10/08/10    Analysis Date...: 10/11/10  
 Prep Batch #...: 0281046    Analysis Time...: 11:25  
 Dilution Factor: 2.48  
 % Moisture.....: 43    Method.....: SW846 8270C

| PARAMETER                      | RESULT | REPORTING |       |
|--------------------------------|--------|-----------|-------|
|                                |        | LIMIT     | UNITS |
| Acenaphthene                   | 6.3 J  | 29        | ug/kg |
| Acenaphthylene                 | 14 J   | 29        | ug/kg |
| Acetophenone                   | ND     | 140       | ug/kg |
| Anthracene                     | 15 J   | 29        | ug/kg |
| Atrazine                       | ND     | 140       | ug/kg |
| Benzo(a)anthracene             | 52     | 29        | ug/kg |
| Benzo(a)pyrene                 | 68     | 29        | ug/kg |
| Benzo(b)fluoranthene           | 110    | 29        | ug/kg |
| Benzo(ghi)perylene             | 74     | 29        | ug/kg |
| Benzo(k)fluoranthene           | ND     | 29        | ug/kg |
| Benzaldehyde                   | 78 J   | 140       | ug/kg |
| 1,1'-Biphenyl                  | ND     | 140       | ug/kg |
| bis(2-Chloroethoxy)<br>methane | ND     | 140       | ug/kg |
| bis(2-Chloroethyl)-<br>ether   | ND     | 29        | ug/kg |
| bis(2-Ethylhexyl)<br>phthalate | 46 J   | 290       | ug/kg |
| 4-Bromophenyl phenyl<br>ether  | ND     | 140       | ug/kg |
| Butyl benzyl phthalate         | 28 J   | 140       | ug/kg |
| Caprolactam                    | ND     | 740       | ug/kg |
| Carbazole                      | ND     | 29        | ug/kg |
| 4-Chloroaniline                | ND     | 140       | ug/kg |
| 4-Chloro-3-methylphenol        | ND     | 140       | ug/kg |
| 2-Chloronaphthalene            | ND     | 29        | ug/kg |
| 2-Chlorophenol                 | ND     | 140       | ug/kg |
| 4-Chlorophenyl phenyl<br>ether | ND     | 140       | ug/kg |
| Chrysene                       | 81     | 29        | ug/kg |
| Dibenz(a,h)anthracene          | 11 J   | 29        | ug/kg |
| Dibenzofuran                   | ND     | 140       | ug/kg |
| 3,3'-Dichlorobenzidine         | ND     | 140       | ug/kg |
| 2,4-Dichlorophenol             | ND     | 29        | ug/kg |
| Diethyl phthalate              | ND     | 140       | ug/kg |
| 2,4-Dimethylphenol             | ND     | 140       | ug/kg |
| Dimethyl phthalate             | ND     | 140       | ug/kg |
| Di-n-butyl phthalate           | ND     | 140       | ug/kg |

(Continued on next page)

Stantec Consulting Services Inc

Client Sample ID: WM-1

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-001 Work Order #...: L72311AD Matrix.....: SOLID

| PARAMETER                        | RESULT       | REPORTING |              |
|----------------------------------|--------------|-----------|--------------|
|                                  |              | LIMIT     | UNITS        |
| 4,6-Dinitro-<br>2-methylphenol   | ND           | 740       | ug/kg        |
| 2,4-Dinitrophenol                | ND           | 740       | ug/kg        |
| 2,4-Dinitrotoluene               | ND           | 140       | ug/kg        |
| 2,6-Dinitrotoluene               | ND           | 140       | ug/kg        |
| Di-n-octyl phthalate             | ND           | 140       | ug/kg        |
| <b>Fluoranthene</b>              | <b>160</b>   | <b>29</b> | <b>ug/kg</b> |
| Fluorene                         | ND           | 29        | ug/kg        |
| Hexachlorobenzene                | ND           | 29        | ug/kg        |
| Hexachlorobutadiene              | ND           | 29        | ug/kg        |
| Hexachlorocyclopenta-<br>diene   | ND           | 140       | ug/kg        |
| Hexachloroethane                 | ND           | 140       | ug/kg        |
| <b>Indeno(1,2,3-cd)pyrene</b>    | <b>43</b>    | <b>29</b> | <b>ug/kg</b> |
| Isophorone                       | ND           | 140       | ug/kg        |
| <b>2-Methylnaphthalene</b>       | <b>4.8 J</b> | <b>29</b> | <b>ug/kg</b> |
| 2-Methylphenol                   | ND           | 140       | ug/kg        |
| 4-Methylphenol                   | ND           | 140       | ug/kg        |
| Naphthalene                      | ND           | 29        | ug/kg        |
| 2-Nitroaniline                   | ND           | 740       | ug/kg        |
| 3-Nitroaniline                   | ND           | 740       | ug/kg        |
| 4-Nitroaniline                   | ND           | 740       | ug/kg        |
| Nitrobenzene                     | ND           | 290       | ug/kg        |
| 2-Nitrophenol                    | ND           | 140       | ug/kg        |
| 4-Nitrophenol                    | ND           | 740       | ug/kg        |
| N-Nitrosodi-n-propyl-<br>amine   | ND           | 29        | ug/kg        |
| N-Nitrosodiphenylamine           | ND           | 140       | ug/kg        |
| 2,2'-oxybis<br>(1-Chloropropane) | ND           | 29        | ug/kg        |
| Pentachlorophenol                | ND           | 140       | ug/kg        |
| <b>Phenanthrene</b>              | <b>76</b>    | <b>29</b> | <b>ug/kg</b> |
| Phenol                           | ND           | 29        | ug/kg        |
| <b>Pyrene</b>                    | <b>110</b>   | <b>29</b> | <b>ug/kg</b> |
| 2,4,5-Trichloro-<br>phenol       | ND           | 140       | ug/kg        |
| 2,4,6-Trichloro-<br>phenol       | ND           | 140       | ug/kg        |

(Continued on next page)

Stantec Consulting Services Inc

Client Sample ID: WM-1

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-001

Work Order #...: L72311AD

Matrix.....: SOLID

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| Nitrobenzene-d5      | 92                          | (27 - 110)                 |
| Terphenyl-d14        | 91                          | (21 - 130)                 |
| 2-Fluorobiphenyl     | 103                         | (28 - 108)                 |
| 2-Fluorophenol       | 105                         | (28 - 107)                 |
| Phenol-d5            | 99                          | (30 - 112)                 |
| 2,4,6-Tribromophenol | 106                         | (21 - 116)                 |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Stantec Consulting Services Inc

Client Sample ID: WM-2

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-002    Work Order #...: L72321AD    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received...: 10/06/10    MS Run #.....: 0281030  
 Prep Date.....: 10/08/10    Analysis Date...: 10/11/10  
 Prep Batch #...: 0281046    Analysis Time...: 12:26  
 Dilution Factor: 2.47  
 % Moisture.....: 18    Method.....: SW846 8270C

| PARAMETER                              | RESULT       | REPORTING  |              |
|--|--------------|------------|--------------|
|  |              | LIMIT      | UNITS        |
| Acenaphthene                           | ND           | 20         | ug/kg        |
| Acenaphthylene                         | ND           | 20         | ug/kg        |
| Acetophenone                           | ND           | 99         | ug/kg        |
| <b>Anthracene</b>                      | <b>4.6 J</b> | <b>20</b>  | <b>ug/kg</b> |
| Atrazine                               | ND           | 99         | ug/kg        |
| Benzo(a)anthracene                     | ND           | 20         | ug/kg        |
| <b>Benzo(a)pyrene</b>                  | <b>5.4 J</b> | <b>20</b>  | <b>ug/kg</b> |
| Benzo(b)fluoranthene                   | ND           | 20         | ug/kg        |
| Benzo(ghi)perylene                     | ND           | 20         | ug/kg        |
| Benzo(k)fluoranthene                   | ND           | 20         | ug/kg        |
| Benzaldehyde                           | ND           | 99         | ug/kg        |
| 1,1'-Biphenyl                          | ND           | 99         | ug/kg        |
| bis(2-Chloroethoxy)<br>methane         | ND           | 99         | ug/kg        |
| bis(2-Chloroethyl)-<br>ether           | ND           | 20         | ug/kg        |
| <b>bis(2-Ethylhexyl)<br/>phthalate</b> | <b>19 J</b>  | <b>200</b> | <b>ug/kg</b> |
| 4-Bromophenyl phenyl<br>ether          | ND           | 99         | ug/kg        |
| <b>Butyl benzyl phthalate</b>          | <b>18 J</b>  | <b>99</b>  | <b>ug/kg</b> |
| Caprolactam                            | ND           | 510        | ug/kg        |
| Carbazole                              | ND           | 20         | ug/kg        |
| 4-Chloroaniline                        | ND           | 99         | ug/kg        |
| 4-Chloro-3-methylphenol                | ND           | 99         | ug/kg        |
| 2-Chloronaphthalene                    | ND           | 20         | ug/kg        |
| 2-Chlorophenol                         | ND           | 99         | ug/kg        |
| 4-Chlorophenyl phenyl<br>ether         | ND           | 99         | ug/kg        |
| <b>Chrysene</b>                        | <b>6.7 J</b> | <b>20</b>  | <b>ug/kg</b> |
| Dibenz(a,h)anthracene                  | ND           | 20         | ug/kg        |
| Dibenzofuran                           | ND           | 99         | ug/kg        |
| 3,3'-Dichlorobenzidine                 | ND           | 99         | ug/kg        |
| 2,4-Dichlorophenol                     | ND           | 20         | ug/kg        |
| Diethyl phthalate                      | ND           | 99         | ug/kg        |
| 2,4-Dimethylphenol                     | ND           | 99         | ug/kg        |
| Dimethyl phthalate                     | ND           | 99         | ug/kg        |
| Di-n-butyl phthalate                   | ND           | 99         | ug/kg        |

(Continued on next page)

Stantec Consulting Services Inc

Client Sample ID: WM-2

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-002 Work Order #...: L72321AD Matrix.....: SOLID

| PARAMETER                        | RESULT       | REPORTING |              |
|----------------------------------|--------------|-----------|--------------|
|                                  |              | LIMIT     | UNITS        |
| 4,6-Dinitro-<br>2-methylphenol   | ND           | 510       | ug/kg        |
| 2,4-Dinitrophenol                | ND           | 510       | ug/kg        |
| 2,4-Dinitrotoluene               | ND           | 99        | ug/kg        |
| 2,6-Dinitrotoluene               | ND           | 99        | ug/kg        |
| Di-n-octyl phthalate             | ND           | 99        | ug/kg        |
| <b>Fluoranthene</b>              | <b>15 J</b>  | <b>20</b> | <b>ug/kg</b> |
| Fluorene                         | ND           | 20        | ug/kg        |
| Hexachlorobenzene                | ND           | 20        | ug/kg        |
| Hexachlorobutadiene              | ND           | 20        | ug/kg        |
| Hexachlorocyclopenta-<br>diene   | ND           | 99        | ug/kg        |
| Hexachloroethane                 | ND           | 99        | ug/kg        |
| Indeno(1,2,3-cd)pyrene           | ND           | 20        | ug/kg        |
| Isophorone                       | ND           | 99        | ug/kg        |
| 2-Methylnaphthalene              | ND           | 20        | ug/kg        |
| 2-Methylphenol                   | ND           | 99        | ug/kg        |
| 4-Methylphenol                   | ND           | 99        | ug/kg        |
| Naphthalene                      | ND           | 20        | ug/kg        |
| 2-Nitroaniline                   | ND           | 510       | ug/kg        |
| 3-Nitroaniline                   | ND           | 510       | ug/kg        |
| 4-Nitroaniline                   | ND           | 510       | ug/kg        |
| Nitrobenzene                     | ND           | 200       | ug/kg        |
| 2-Nitrophenol                    | ND           | 99        | ug/kg        |
| 4-Nitrophenol                    | ND           | 510       | ug/kg        |
| N-Nitrosodi-n-propyl-<br>amine   | ND           | 20        | ug/kg        |
| N-Nitrosodiphenylamine           | ND           | 99        | ug/kg        |
| 2,2'-oxybis<br>(1-Chloropropane) | ND           | 20        | ug/kg        |
| Pentachlorophenol                | ND           | 99        | ug/kg        |
| <b>Phenanthrene</b>              | <b>16 J</b>  | <b>20</b> | <b>ug/kg</b> |
| Phenol                           | ND           | 20        | ug/kg        |
| <b>Pyrene</b>                    | <b>9.8 J</b> | <b>20</b> | <b>ug/kg</b> |
| 2,4,5-Trichloro-<br>phenol       | ND           | 99        | ug/kg        |
| 2,4,6-Trichloro-<br>phenol       | ND           | 99        | ug/kg        |

(Continued on next page)



Stantec Consulting Services Inc

Client Sample ID: WM-2

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-002

Work Order #...: L72321AD

Matrix.....: SOLID

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| Nitrobenzene-d5      | 73                          | (27 - 110)                 |
| Terphenyl-d14        | 74                          | (21 - 130)                 |
| 2-Fluorobiphenyl     | 82                          | (28 - 108)                 |
| 2-Fluorophenol       | 83                          | (28 - 107)                 |
| Phenol-d5            | 77                          | (30 - 112)                 |
| 2,4,6-Tribromophenol | 78                          | (21 - 116)                 |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Stantec Consulting Services Inc

Client Sample ID: WM-3

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-003    Work Order #...: L72331AD    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received...: 10/06/10    MS Run #.....: 0281030  
 Prep Date.....: 10/08/10    Analysis Date...: 10/11/10  
 Prep Batch #...: 0281046    Analysis Time...: 12:46  
 Dilution Factor: 2.48  
 % Moisture.....: 11    Method.....: SW846 8270C

| PARAMETER                              | RESULT       | REPORTING  |              |
|--|--------------|------------|--------------|
|  |              | LIMIT      | UNITS        |
| Acenaphthene                           | ND           | 19         | ug/kg        |
| Acenaphthylene                         | ND           | 19         | ug/kg        |
| Acetophenone                           | ND           | 92         | ug/kg        |
| Anthracene                             | ND           | 19         | ug/kg        |
| Atrazine                               | ND           | 92         | ug/kg        |
| <b>Benzo(a)anthracene</b>              | <b>4.6 J</b> | <b>19</b>  | <b>ug/kg</b> |
| Benzo(a)pyrene                         | ND           | 19         | ug/kg        |
| <b>Benzo(b)fluoranthene</b>            | <b>6.6 J</b> | <b>19</b>  | <b>ug/kg</b> |
| Benzo(ghi)perylene                     | ND           | 19         | ug/kg        |
| Benzo(k)fluoranthene                   | ND           | 19         | ug/kg        |
| Benzaldehyde                           | ND           | 92         | ug/kg        |
| 1,1'-Biphenyl                          | ND           | 92         | ug/kg        |
| bis(2-Chloroethoxy)<br>methane         | ND           | 92         | ug/kg        |
| bis(2-Chloroethyl)-<br>ether           | ND           | 19         | ug/kg        |
| <b>bis(2-Ethylhexyl)<br/>phthalate</b> | <b>18 J</b>  | <b>190</b> | <b>ug/kg</b> |
| 4-Bromophenyl phenyl<br>ether          | ND           | 92         | ug/kg        |
| <b>Butyl benzyl phthalate</b>          | <b>18 J</b>  | <b>92</b>  | <b>ug/kg</b> |
| Caprolactam                            | ND           | 470        | ug/kg        |
| Carbazole                              | ND           | 19         | ug/kg        |
| 4-Chloroaniline                        | ND           | 92         | ug/kg        |
| 4-Chloro-3-methylphenol                | ND           | 92         | ug/kg        |
| 2-Chloronaphthalene                    | ND           | 19         | ug/kg        |
| 2-Chlorophenol                         | ND           | 92         | ug/kg        |
| 4-Chlorophenyl phenyl<br>ether         | ND           | 92         | ug/kg        |
| <b>Chrysene</b>                        | <b>4.2 J</b> | <b>19</b>  | <b>ug/kg</b> |
| Dibenz(a,h)anthracene                  | ND           | 19         | ug/kg        |
| Dibenzofuran                           | ND           | 92         | ug/kg        |
| 3,3'-Dichlorobenzidine                 | ND           | 92         | ug/kg        |
| 2,4-Dichlorophenol                     | ND           | 19         | ug/kg        |
| Diethyl phthalate                      | ND           | 92         | ug/kg        |
| 2,4-Dimethylphenol                     | ND           | 92         | ug/kg        |
| Dimethyl phthalate                     | ND           | 92         | ug/kg        |
| Di-n-butyl phthalate                   | ND           | 92         | ug/kg        |

(Continued on next page)

Stantec Consulting Services Inc

Client Sample ID: WM-3

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-003 Work Order #...: L72331AD Matrix.....: SOLID

| PARAMETER                        | RESULT       | REPORTING |              |
|----------------------------------|--------------|-----------|--------------|
|                                  |              | LIMIT     | UNITS        |
| 4,6-Dinitro-<br>2-methylphenol   | ND           | 470       | ug/kg        |
| 2,4-Dinitrophenol                | ND           | 470       | ug/kg        |
| 2,4-Dinitrotoluene               | ND           | 92        | ug/kg        |
| 2,6-Dinitrotoluene               | ND           | 92        | ug/kg        |
| Di-n-octyl phthalate             | ND           | 92        | ug/kg        |
| <b>Fluoranthene</b>              | <b>7.7 J</b> | <b>19</b> | <b>ug/kg</b> |
| Fluorene                         | ND           | 19        | ug/kg        |
| Hexachlorobenzene                | ND           | 19        | ug/kg        |
| Hexachlorobutadiene              | ND           | 19        | ug/kg        |
| Hexachlorocyclopenta-<br>diene   | ND           | 92        | ug/kg        |
| Hexachloroethane                 | ND           | 92        | ug/kg        |
| Indeno(1,2,3-cd)pyrene           | ND           | 19        | ug/kg        |
| Isophorone                       | ND           | 92        | ug/kg        |
| 2-Methylnaphthalene              | ND           | 19        | ug/kg        |
| 2-Methylphenol                   | ND           | 92        | ug/kg        |
| 4-Methylphenol                   | ND           | 92        | ug/kg        |
| Naphthalene                      | ND           | 19        | ug/kg        |
| 2-Nitroaniline                   | ND           | 470       | ug/kg        |
| 3-Nitroaniline                   | ND           | 470       | ug/kg        |
| 4-Nitroaniline                   | ND           | 470       | ug/kg        |
| Nitrobenzene                     | ND           | 190       | ug/kg        |
| 2-Nitrophenol                    | ND           | 92        | ug/kg        |
| 4-Nitrophenol                    | ND           | 470       | ug/kg        |
| N-Nitrosodi-n-propyl-<br>amine   | ND           | 19        | ug/kg        |
| N-Nitrosodiphenylamine           | ND           | 92        | ug/kg        |
| 2,2'-oxybis<br>(1-Chloropropane) | ND           | 19        | ug/kg        |
| Pentachlorophenol                | ND           | 92        | ug/kg        |
| <b>Phenanthrene</b>              | <b>5.7 J</b> | <b>19</b> | <b>ug/kg</b> |
| Phenol                           | ND           | 19        | ug/kg        |
| <b>Pyrene</b>                    | <b>6.0 J</b> | <b>19</b> | <b>ug/kg</b> |
| 2,4,5-Trichloro-<br>phenol       | ND           | 92        | ug/kg        |
| 2,4,6-Trichloro-<br>phenol       | ND           | 92        | ug/kg        |

(Continued on next page)

Stantec Consulting Services Inc

Client Sample ID: WM-3

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-003

Work Order #...: L72331AD

Matrix.....: SOLID

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| Nitrobenzene-d5      | 74                          | (27 - 110)                 |
| Terphenyl-d14        | 70                          | (21 - 130)                 |
| 2-Fluorobiphenyl     | 75                          | (28 - 108)                 |
| 2-Fluorophenol       | 83                          | (28 - 107)                 |
| Phenol-d5            | 75                          | (30 - 112)                 |
| 2,4,6-Tribromophenol | 79                          | (21 - 116)                 |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Stantec Consulting Services Inc

Client Sample ID: WM-4

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-004    Work Order #...: L72341AD    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received...: 10/06/10    MS Run #.....: 0281030  
 Prep Date.....: 10/08/10    Analysis Date...: 10/11/10  
 Prep Batch #...: 0281046    Analysis Time...: 13:06  
 Dilution Factor: 2.5  
 % Moisture.....: 29    Method.....: SW846 8270C

| PARAMETER                              | RESULT       | REPORTING  |              |
|--|--------------|------------|--------------|
|  |              | LIMIT      | UNITS        |
| Acenaphthene                           | ND           | 24         | ug/kg        |
| Acenaphthylene                         | ND           | 24         | ug/kg        |
| Acetophenone                           | ND           | 120        | ug/kg        |
| <b>Anthracene</b>                      | <b>4.9 J</b> | <b>24</b>  | <b>ug/kg</b> |
| Atrazine                               | ND           | 120        | ug/kg        |
| <b>Benzo(a)anthracene</b>              | <b>17 J</b>  | <b>24</b>  | <b>ug/kg</b> |
| <b>Benzo(a)pyrene</b>                  | <b>17 J</b>  | <b>24</b>  | <b>ug/kg</b> |
| <b>Benzo(b)fluoranthene</b>            | <b>19 J</b>  | <b>24</b>  | <b>ug/kg</b> |
| <b>Benzo(ghi)perylene</b>              | <b>16 J</b>  | <b>24</b>  | <b>ug/kg</b> |
| Benzo(k)fluoranthene                   | ND           | 24         | ug/kg        |
| Benzaldehyde                           | ND           | 120        | ug/kg        |
| 1,1'-Biphenyl                          | ND           | 120        | ug/kg        |
| bis(2-Chloroethoxy)<br>methane         | ND           | 120        | ug/kg        |
| bis(2-Chloroethyl)-<br>ether           | ND           | 24         | ug/kg        |
| <b>bis(2-Ethylhexyl)<br/>phthalate</b> | <b>30 J</b>  | <b>240</b> | <b>ug/kg</b> |
| 4-Bromophenyl phenyl<br>ether          | ND           | 120        | ug/kg        |
| <b>Butyl benzyl phthalate</b>          | <b>32 J</b>  | <b>120</b> | <b>ug/kg</b> |
| Caprolactam                            | ND           | 600        | ug/kg        |
| Carbazole                              | ND           | 24         | ug/kg        |
| 4-Chloroaniline                        | ND           | 120        | ug/kg        |
| 4-Chloro-3-methylphenol                | ND           | 120        | ug/kg        |
| 2-Chloronaphthalene                    | ND           | 24         | ug/kg        |
| 2-Chlorophenol                         | ND           | 120        | ug/kg        |
| 4-Chlorophenyl phenyl<br>ether         | ND           | 120        | ug/kg        |
| <b>Chrysene</b>                        | <b>21 J</b>  | <b>24</b>  | <b>ug/kg</b> |
| <b>Dibenz(a,h)anthracene</b>           | <b>2.6 J</b> | <b>24</b>  | <b>ug/kg</b> |
| Dibenzofuran                           | ND           | 120        | ug/kg        |
| 3,3'-Dichlorobenzidine                 | ND           | 120        | ug/kg        |
| 2,4-Dichlorophenol                     | ND           | 24         | ug/kg        |
| Diethyl phthalate                      | ND           | 120        | ug/kg        |
| 2,4-Dimethylphenol                     | ND           | 120        | ug/kg        |
| Dimethyl phthalate                     | ND           | 120        | ug/kg        |
| Di-n-butyl phthalate                   | ND           | 120        | ug/kg        |

(Continued on next page)

Stantec Consulting Services Inc

Client Sample ID: WM-4

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-004 Work Order #...: L72341AD Matrix.....: SOLID

| PARAMETER                        | RESULT      | REPORTING |              |
|----------------------------------|-------------|-----------|--------------|
|                                  |             | LIMIT     | UNITS        |
| 4,6-Dinitro-<br>2-methylphenol   | ND          | 600       | ug/kg        |
| 2,4-Dinitrophenol                | ND          | 600       | ug/kg        |
| 2,4-Dinitrotoluene               | ND          | 120       | ug/kg        |
| 2,6-Dinitrotoluene               | ND          | 120       | ug/kg        |
| Di-n-octyl phthalate             | ND          | 120       | ug/kg        |
| <b>Fluoranthene</b>              | <b>44</b>   | <b>24</b> | <b>ug/kg</b> |
| Fluorene                         | ND          | 24        | ug/kg        |
| Hexachlorobenzene                | ND          | 24        | ug/kg        |
| Hexachlorobutadiene              | ND          | 24        | ug/kg        |
| Hexachlorocyclopenta-<br>diene   | ND          | 120       | ug/kg        |
| Hexachloroethane                 | ND          | 120       | ug/kg        |
| <b>Indeno(1,2,3-cd)pyrene</b>    | <b>10 J</b> | <b>24</b> | <b>ug/kg</b> |
| Isophorone                       | ND          | 120       | ug/kg        |
| 2-Methylnaphthalene              | ND          | 24        | ug/kg        |
| 2-Methylphenol                   | ND          | 120       | ug/kg        |
| 4-Methylphenol                   | ND          | 120       | ug/kg        |
| Naphthalene                      | ND          | 24        | ug/kg        |
| 2-Nitroaniline                   | ND          | 600       | ug/kg        |
| 3-Nitroaniline                   | ND          | 600       | ug/kg        |
| 4-Nitroaniline                   | ND          | 600       | ug/kg        |
| Nitrobenzene                     | ND          | 240       | ug/kg        |
| 2-Nitrophenol                    | ND          | 120       | ug/kg        |
| 4-Nitrophenol                    | ND          | 600       | ug/kg        |
| N-Nitrosodi-n-propyl-<br>amine   | ND          | 24        | ug/kg        |
| N-Nitrosodiphenylamine           | ND          | 120       | ug/kg        |
| 2,2'-oxybis<br>(1-Chloropropane) | ND          | 24        | ug/kg        |
| Pentachlorophenol                | ND          | 120       | ug/kg        |
| <b>Phenanthrene</b>              | <b>30</b>   | <b>24</b> | <b>ug/kg</b> |
| Phenol                           | ND          | 24        | ug/kg        |
| <b>Pyrene</b>                    | <b>30</b>   | <b>24</b> | <b>ug/kg</b> |
| 2,4,5-Trichloro-<br>phenol       | ND          | 120       | ug/kg        |
| 2,4,6-Trichloro-<br>phenol       | ND          | 120       | ug/kg        |

(Continued on next page)

Stantec Consulting Services Inc

Client Sample ID: WM-4

GC/MS Semivolatiles

Lot-Sample #...: C0J060476-004

Work Order #...: L72341AD

Matrix.....: SOLID

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| Nitrobenzene-d5      | 73                          | (27 - 110)                 |
| Terphenyl-d14        | 81                          | (21 - 130)                 |
| 2-Fluorobiphenyl     | 79                          | (28 - 108)                 |
| 2-Fluorophenol       | 84                          | (28 - 107)                 |
| Phenol-d5            | 77                          | (30 - 112)                 |
| 2,4,6-Tribromophenol | 86                          | (21 - 116)                 |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C0J060476  
 MB Lot-Sample #: C0J080000-046

Work Order #...: L75T21AA

Matrix.....: SOLID

Analysis Date...: 10/11/10

Prep Date.....: 10/08/10

Analysis Time...: 10:44

Dilution Factor: 0.5

Prep Batch #...: 0281046

| PARAMETER                      | RESULT | REPORTING |       |             |
|--------------------------------|--------|-----------|-------|-------------|
|                                |        | LIMIT     | UNITS | METHOD      |
| Acenaphthene                   | ND     | 3.4       | ug/kg | SW846 8270C |
| Acenaphthylene                 | ND     | 3.4       | ug/kg | SW846 8270C |
| Acetophenone                   | ND     | 16        | ug/kg | SW846 8270C |
| Anthracene                     | ND     | 3.4       | ug/kg | SW846 8270C |
| Atrazine                       | ND     | 16        | ug/kg | SW846 8270C |
| Benzo(a)anthracene             | ND     | 3.4       | ug/kg | SW846 8270C |
| Benzo(a)pyrene                 | ND     | 3.4       | ug/kg | SW846 8270C |
| Benzo(b)fluoranthene           | ND     | 3.4       | ug/kg | SW846 8270C |
| Benzo(ghi)perylene             | ND     | 3.4       | ug/kg | SW846 8270C |
| Benzo(k)fluoranthene           | ND     | 3.4       | ug/kg | SW846 8270C |
| Benzaldehyde                   | ND     | 16        | ug/kg | SW846 8270C |
| 1,1'-Biphenyl                  | ND     | 16        | ug/kg | SW846 8270C |
| bis(2-Chloroethoxy)<br>methane | ND     | 16        | ug/kg | SW846 8270C |
| bis(2-Chloroethyl)-<br>ether   | ND     | 3.4       | ug/kg | SW846 8270C |
| bis(2-Ethylhexyl)<br>phthalate | ND     | 33        | ug/kg | SW846 8270C |
| 4-Bromophenyl phenyl<br>ether  | ND     | 16        | ug/kg | SW846 8270C |
| Butyl benzyl phthalate         | ND     | 16        | ug/kg | SW846 8270C |
| Caprolactam                    | ND     | 85        | ug/kg | SW846 8270C |
| Carbazole                      | ND     | 3.4       | ug/kg | SW846 8270C |
| 4-Chloroaniline                | ND     | 16        | ug/kg | SW846 8270C |
| 4-Chloro-3-methylphenol        | ND     | 16        | ug/kg | SW846 8270C |
| 2-Chloronaphthalene            | ND     | 3.4       | ug/kg | SW846 8270C |
| 2-Chlorophenol                 | ND     | 16        | ug/kg | SW846 8270C |
| 4-Chlorophenyl phenyl<br>ether | ND     | 16        | ug/kg | SW846 8270C |
| Chrysene                       | ND     | 3.4       | ug/kg | SW846 8270C |
| Dibenz(a,h)anthracene          | ND     | 3.4       | ug/kg | SW846 8270C |
| Dibenzofuran                   | ND     | 16        | ug/kg | SW846 8270C |
| 3,3'-Dichlorobenzidine         | ND     | 16        | ug/kg | SW846 8270C |
| 2,4-Dichlorophenol             | ND     | 3.4       | ug/kg | SW846 8270C |
| Diethyl phthalate              | ND     | 16        | ug/kg | SW846 8270C |
| 2,4-Dimethylphenol             | ND     | 16        | ug/kg | SW846 8270C |
| Dimethyl phthalate             | ND     | 16        | ug/kg | SW846 8270C |
| Di-n-butyl phthalate           | ND     | 16        | ug/kg | SW846 8270C |
| 4,6-Dinitro-<br>2-methylphenol | ND     | 85        | ug/kg | SW846 8270C |
| 2,4-Dinitrophenol              | ND     | 85        | ug/kg | SW846 8270C |

(Continued on next page)



METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C0J060476

Work Order #...: L75T21AA

Matrix.....: SOLID

| <u>PARAMETER</u>                 | <u>RESULT</u> | <u>REPORTING</u> |              |               |
|----------------------------------|---------------|------------------|--------------|---------------|
|                                  |               | <u>LIMIT</u>     | <u>UNITS</u> | <u>METHOD</u> |
| 2,4-Dinitrotoluene               | ND            | 16               | ug/kg        | SW846 8270C   |
| 2,6-Dinitrotoluene               | ND            | 16               | ug/kg        | SW846 8270C   |
| Di-n-octyl phthalate             | ND            | 16               | ug/kg        | SW846 8270C   |
| Fluoranthene                     | ND            | 3.4              | ug/kg        | SW846 8270C   |
| Fluorene                         | ND            | 3.4              | ug/kg        | SW846 8270C   |
| Hexachlorobenzene                | ND            | 3.4              | ug/kg        | SW846 8270C   |
| Hexachlorobutadiene              | ND            | 3.4              | ug/kg        | SW846 8270C   |
| Hexachlorocyclopenta-<br>diene   | ND            | 16               | ug/kg        | SW846 8270C   |
| Hexachloroethane                 | ND            | 16               | ug/kg        | SW846 8270C   |
| Indeno(1,2,3-cd)pyrene           | ND            | 3.4              | ug/kg        | SW846 8270C   |
| Isophorone                       | ND            | 16               | ug/kg        | SW846 8270C   |
| 2-Methylnaphthalene              | ND            | 3.4              | ug/kg        | SW846 8270C   |
| 2-Methylphenol                   | ND            | 16               | ug/kg        | SW846 8270C   |
| 4-Methylphenol                   | ND            | 16               | ug/kg        | SW846 8270C   |
| Naphthalene                      | ND            | 3.4              | ug/kg        | SW846 8270C   |
| 2-Nitroaniline                   | ND            | 85               | ug/kg        | SW846 8270C   |
| 3-Nitroaniline                   | ND            | 85               | ug/kg        | SW846 8270C   |
| 4-Nitroaniline                   | ND            | 85               | ug/kg        | SW846 8270C   |
| Nitrobenzene                     | ND            | 33               | ug/kg        | SW846 8270C   |
| 2-Nitrophenol                    | ND            | 16               | ug/kg        | SW846 8270C   |
| 4-Nitrophenol                    | ND            | 85               | ug/kg        | SW846 8270C   |
| N-Nitrosodi-n-propyl-<br>amine   | ND            | 3.4              | ug/kg        | SW846 8270C   |
| N-Nitrosodiphenylamine           | ND            | 16               | ug/kg        | SW846 8270C   |
| 2,2'-oxybis<br>(1-Chloropropane) | ND            | 3.4              | ug/kg        | SW846 8270C   |
| Pentachlorophenol                | ND            | 16               | ug/kg        | SW846 8270C   |
| Phenanthrene                     | ND            | 3.4              | ug/kg        | SW846 8270C   |
| Phenol                           | ND            | 3.4              | ug/kg        | SW846 8270C   |
| Pyrene                           | ND            | 3.4              | ug/kg        | SW846 8270C   |
| 2,4,5-Trichloro-<br>phenol       | ND            | 16               | ug/kg        | SW846 8270C   |
| 2,4,6-Trichloro-<br>phenol       | ND            | 16               | ug/kg        | SW846 8270C   |

| <u>SURROGATE</u>     | <u>PERCENT</u>  | <u>RECOVERY</u> |
|----------------------|-----------------|-----------------|
|                      | <u>RECOVERY</u> | <u>LIMITS</u>   |
| Nitrobenzene-d5      | 87              | (27 - 110)      |
| Terphenyl-d14        | 90              | (21 - 130)      |
| 2-Fluorobiphenyl     | 88              | (28 - 108)      |
| 2-Fluorophenol       | 104             | (28 - 107)      |
| Phenol-d5            | 92              | (30 - 112)      |
| 2,4,6-Tribromophenol | 75              | (21 - 116)      |

(Continued on next page)

**METHOD BLANK REPORT**

**GC/MS Semivolatiles**

**Client Lot #...:** C0J060476

**Work Order #...:** L75T21AA

**Matrix.....:** SOLID

**NOTE(S):**

---

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C0J060476      Work Order #...: L75T21AC      Matrix.....: SOLID  
 LCS Lot-Sample#: C0J080000-046  
 Prep Date.....: 10/08/10      Analysis Date...: 10/18/10  
 Prep Batch #...: 0281046      Analysis Time...: 03:50  
 Dilution Factor: 0.5

| <u>PARAMETER</u>               | PERCENT<br><u>RECOVERY</u> | RECOVERY<br><u>LIMITS</u> | <u>METHOD</u> |
|--------------------------------|----------------------------|---------------------------|---------------|
| Acenaphthene                   | 81                         | (42 - 104)                | SW846 8270C   |
| 1,4-Dichlorobenzene            | 82                         | (41 - 101)                | SW846 8270C   |
| 1,2,4-Trichloro-<br>benzene    | 84                         | (41 - 105)                | SW846 8270C   |
| 4-Bromophenyl phenyl<br>ether  | 85                         | (43 - 111)                | SW846 8270C   |
| Butyl benzyl phthalate         | 81                         | (40 - 117)                | SW846 8270C   |
| 4-Chloro-3-methylphenol        | 92                         | (43 - 110)                | SW846 8270C   |
| 2-Chlorophenol                 | 87                         | (40 - 105)                | SW846 8270C   |
| 2,4-Dinitrotoluene             | 85                         | (48 - 118)                | SW846 8270C   |
| Hexachloroethane               | 85                         | (40 - 102)                | SW846 8270C   |
| 4-Methylphenol                 | 95                         | (43 - 107)                | SW846 8270C   |
| Naphthalene                    | 82                         | (42 - 104)                | SW846 8270C   |
| 4-Nitrophenol                  | 81                         | (27 - 131)                | SW846 8270C   |
| N-Nitrosodi-n-propyl-<br>amine | 89                         | (42 - 108)                | SW846 8270C   |
| Pentachlorophenol              | 64                         | (18 - 125)                | SW846 8270C   |
| Phenol                         | 85                         | (39 - 105)                | SW846 8270C   |
| Pyrene                         | 84                         | (39 - 113)                | SW846 8270C   |

| <u>SURROGATE</u>     | PERCENT<br><u>RECOVERY</u> | RECOVERY<br><u>LIMITS</u> |
|----------------------|----------------------------|---------------------------|
| Nitrobenzene-d5      | 86                         | (27 - 110)                |
| Terphenyl-d14        | 93                         | (21 - 130)                |
| 2-Fluorobiphenyl     | 83                         | (28 - 108)                |
| 2-Fluorophenol       | 104                        | (28 - 107)                |
| Phenol-d5            | 94                         | (30 - 112)                |
| 2,4,6-Tribromophenol | 99                         | (21 - 116)                |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C0J060476      Work Order #...: L72341AR-MS      Matrix.....: SOLID  
 MS Lot-Sample #: C0J060476-004      L72341AT-MSD  
 Date Sampled...: 10/05/10      Date Received...: 10/06/10      MS Run #.....: 0281030  
 Prep Date.....: 10/08/10      Analysis Date...: 10/11/10  
 Prep Batch #...: 0281046      Analysis Time...: 11:46  
 Dilution Factor: 2.5      % Moisture.....: 29

| PARAMETER                      | PERCENT  | RECOVERY   | RPD  |        | METHOD      |
|--------------------------------|----------|------------|------|--------|-------------|
|                                | RECOVERY | LIMITS     | RPD  | LIMITS |             |
| Acenaphthene                   | 92       | (42 - 104) |      |        | SW846 8270C |
|                                | 90       | (42 - 104) | 2.4  | (0-34) | SW846 8270C |
| 1,4-Dichlorobenzene            | 81       | (41 - 101) |      |        | SW846 8270C |
|                                | 75       | (41 - 101) | 7.2  | (0-32) | SW846 8270C |
| 1,2,4-Trichloro-<br>benzene    | 88       | (41 - 105) |      |        | SW846 8270C |
|                                | 85       | (41 - 105) | 4.0  | (0-36) | SW846 8270C |
| 4-Bromophenyl phenyl<br>ether  | 95       | (43 - 111) |      |        | SW846 8270C |
|                                | 90       | (43 - 111) | 4.8  | (0-20) | SW846 8270C |
| Butyl benzyl phthalate         | 81       | (40 - 117) |      |        | SW846 8270C |
|                                | 82       | (40 - 117) | 0.97 | (0-34) | SW846 8270C |
| 4-Chloro-3-methylphenol        | 91       | (43 - 110) |      |        | SW846 8270C |
|                                | 92       | (43 - 110) | 0.66 | (0-31) | SW846 8270C |
| 2-Chlorophenol                 | 89       | (40 - 105) |      |        | SW846 8270C |
|                                | 81       | (40 - 105) | 8.4  | (0-37) | SW846 8270C |
| 2,4-Dinitrotoluene             | 96       | (48 - 118) |      |        | SW846 8270C |
|                                | 95       | (48 - 118) | 1.6  | (0-33) | SW846 8270C |
| Hexachloroethane               | 67       | (40 - 102) |      |        | SW846 8270C |
|                                | 56       | (40 - 102) | 17   | (0-34) | SW846 8270C |
| 4-Methylphenol                 | 89       | (43 - 107) |      |        | SW846 8270C |
|                                | 85       | (43 - 107) | 5.2  | (0-36) | SW846 8270C |
| Naphthalene                    | 87       | (42 - 104) |      |        | SW846 8270C |
|                                | 85       | (42 - 104) | 2.2  | (0-25) | SW846 8270C |
| 4-Nitrophenol                  | 98       | (27 - 131) |      |        | SW846 8270C |
|                                | 96       | (27 - 131) | 1.5  | (0-33) | SW846 8270C |
| N-Nitrosodi-n-propyl-<br>amine | 85       | (42 - 108) |      |        | SW846 8270C |
|                                | 77       | (42 - 108) | 11   | (0-32) | SW846 8270C |
| Pentachlorophenol              | 61       | (18 - 125) |      |        | SW846 8270C |
|                                | 56       | (18 - 125) | 8.7  | (0-34) | SW846 8270C |
| Phenol                         | 81       | (39 - 105) |      |        | SW846 8270C |
|                                | 77       | (39 - 105) | 4.6  | (0-40) | SW846 8270C |
| Pyrene                         | 81       | (39 - 113) |      |        | SW846 8270C |
|                                | 79       | (39 - 113) | 2.0  | (0-28) | SW846 8270C |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C0J060476      Work Order #...: L72341AR-MS      Matrix.....: SOLID  
MS Lot-Sample #: C0J060476-004      L72341AT-MSD

| <u>SURROGATE</u>     | PERCENT<br><u>RECOVERY</u> | RECOVERY<br><u>LIMITS</u> |
|----------------------|----------------------------|---------------------------|
| Nitrobenzene-d5      | 109                        | (27 - 110)                |
|                      | 107                        | (27 - 110)                |
| Terphenyl-d14        | 109                        | (21 - 130)                |
|                      | 105                        | (21 - 130)                |
| 2-Fluorobiphenyl     | 110 *                      | (28 - 108)                |
|                      | 106                        | (28 - 108)                |
| 2-Fluorophenol       | 122 *                      | (28 - 107)                |
|                      | 117 *                      | (28 - 107)                |
| Phenol-d5            | 109                        | (30 - 112)                |
|                      | 105                        | (30 - 112)                |
| 2,4,6-Tribromophenol | 118 *                      | (21 - 116)                |
|                      | 109                        | (21 - 116)                |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

\* Surrogate recovery is outside stated control limits.

Stantec Consulting Services Inc

Client Sample ID: WM-1

GC Semivolatiles

Lot-Sample #...: C0J060476-001    Work Order #...: L72311AE    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received...: 10/06/10    MS Run #.....: 0287044  
 Prep Date.....: 10/14/10    Analysis Date...: 10/21/10  
 Prep Batch #...: 0287077    Analysis Time...: 20:45  
 Dilution Factor: 0.49  
 % Moisture.....: 43    Method.....: SW846 8081A

| PARAMETER                  | RESULT           | REPORTING  |              |
|----------------------------|------------------|------------|--------------|
|                            |                  | LIMIT      | UNITS        |
| alpha-BHC                  | ND               | 1.5        | ug/kg        |
| beta-BHC                   | ND               | 1.5        | ug/kg        |
| delta-BHC                  | ND               | 1.5        | ug/kg        |
| <b>gamma-BHC (Lindane)</b> | <b>1.1 J</b>     | <b>1.5</b> | <b>ug/kg</b> |
| <b>Heptachlor</b>          | <b>0.49 J,PG</b> | <b>1.5</b> | <b>ug/kg</b> |
| Aldrin                     | ND               | 1.5        | ug/kg        |
| Heptachlor epoxide         | ND               | 1.5        | ug/kg        |
| Endosulfan I               | ND               | 1.5        | ug/kg        |
| <b>Dieldrin</b>            | <b>0.77 J,PG</b> | <b>1.5</b> | <b>ug/kg</b> |
| <b>4,4'-DDE</b>            | <b>1.7 PG</b>    | <b>1.5</b> | <b>ug/kg</b> |
| <b>Endrin</b>              | <b>1.2 J,PG</b>  | <b>1.5</b> | <b>ug/kg</b> |
| <b>Endrin ketone</b>       | <b>0.39 J,PG</b> | <b>1.5</b> | <b>ug/kg</b> |
| Endrin aldehyde            | ND               | 1.5        | ug/kg        |
| Endosulfan II              | ND               | 1.5        | ug/kg        |
| <b>4,4'-DDD</b>            | <b>1.4 J</b>     | <b>1.5</b> | <b>ug/kg</b> |
| Endosulfan sulfate         | ND               | 1.5        | ug/kg        |
| 4,4'-DDT                   | ND               | 1.5        | ug/kg        |
| <b>Methoxychlor</b>        | <b>2.2 J,PG</b>  | <b>2.8</b> | <b>ug/kg</b> |
| alpha-Chlordane            | ND               | 1.5        | ug/kg        |
| <b>gamma-Chlordane</b>     | <b>3.0</b>       | <b>1.5</b> | <b>ug/kg</b> |
| Toxaphene                  | ND               | 58         | ug/kg        |

| SURROGATE            | PERCENT  | RECOVERY   |
|----------------------|----------|------------|
|                      | RECOVERY | LIMITS     |
| Tetrachloro-m-xylene | 61       | (45 - 130) |
| Decachlorobiphenyl   | 76       | (45 - 130) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

PG The percent difference between the original and confirmation analyses is greater than 40%.

Stantec Consulting Services Inc

Client Sample ID: WM-2

GC Semivolatiles

Lot-Sample #...: C0J060476-002    Work Order #...: L72321AE    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received...: 10/06/10    MS Run #.....: 0287044  
 Prep Date.....: 10/14/10    Analysis Date...: 10/21/10  
 Prep Batch #...: 0287077    Analysis Time...: 21:04  
 Dilution Factor: 0.5  
 % Moisture.....: 18    Method.....: SW846 8081A

| PARAMETER              | RESULT           | REPORTING  |              |
|------------------------|------------------|------------|--------------|
|                        |                  | LIMIT      | UNITS        |
| alpha-BHC              | ND               | 1.0        | ug/kg        |
| beta-BHC               | ND               | 1.0        | ug/kg        |
| delta-BHC              | ND               | 1.0        | ug/kg        |
| gamma-BHC (Lindane)    | ND               | 1.0        | ug/kg        |
| Heptachlor             | ND               | 1.0        | ug/kg        |
| Aldrin                 | ND               | 1.0        | ug/kg        |
| Heptachlor epoxide     | ND               | 1.0        | ug/kg        |
| Endosulfan I           | ND               | 1.0        | ug/kg        |
| <b>Dieldrin</b>        | <b>0.21 J,PG</b> | <b>1.0</b> | <b>ug/kg</b> |
| 4,4'-DDE               | ND               | 1.0        | ug/kg        |
| Endrin                 | ND               | 1.0        | ug/kg        |
| Endrin ketone          | ND               | 1.0        | ug/kg        |
| Endrin aldehyde        | ND               | 1.0        | ug/kg        |
| Endosulfan II          | ND               | 1.0        | ug/kg        |
| 4,4'-DDD               | ND               | 1.0        | ug/kg        |
| Endosulfan sulfate     | ND               | 1.0        | ug/kg        |
| 4,4'-DDT               | ND               | 1.0        | ug/kg        |
| Methoxychlor           | ND               | 2.0        | ug/kg        |
| alpha-Chlordane        | ND               | 1.0        | ug/kg        |
| <b>gamma-Chlordane</b> | <b>0.31 J,PG</b> | <b>1.0</b> | <b>ug/kg</b> |
| Toxaphene              | ND               | 41         | ug/kg        |

| SURROGATE            | PERCENT  | RECOVERY   |
|----------------------|----------|------------|
|                      | RECOVERY | LIMITS     |
| Tetrachloro-m-xylene | 75       | (45 - 130) |
| Decachlorobiphenyl   | 78       | (45 - 130) |

**NOTE(S):**

- Results and reporting limits have been adjusted for dry weight.
- J Estimated result. Result is less than RL.
- PG The percent difference between the original and confirmation analyses is greater than 40%.

Stantec Consulting Services Inc

Client Sample ID: WM-3

GC Semivolatiles

Lot-Sample #...: C0J060476-003    Work Order #...: L72331AE    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received...: 10/06/10    MS Run #.....: 0287044  
 Prep Date.....: 10/14/10    Analysis Date...: 10/21/10  
 Prep Batch #...: 0287077    Analysis Time...: 21:23  
 Dilution Factor: 0.49  
 % Moisture.....: 11    Method.....: SW846 8081A

| PARAMETER              | RESULT           | REPORTING   |              |
|------------------------|------------------|-------------|--------------|
|                        |                  | LIMIT       | UNITS        |
| <b>alpha-BHC</b>       | <b>1.0</b>       | <b>0.93</b> | <b>ug/kg</b> |
| beta-BHC               | ND               | 0.93        | ug/kg        |
| delta-BHC              | ND               | 0.93        | ug/kg        |
| gamma-BHC (Lindane)    | ND               | 0.93        | ug/kg        |
| Heptachlor             | ND               | 0.93        | ug/kg        |
| Aldrin                 | ND               | 0.93        | ug/kg        |
| Heptachlor epoxide     | ND               | 0.93        | ug/kg        |
| Endosulfan I           | ND               | 0.93        | ug/kg        |
| <b>Dieldrin</b>        | <b>0.20 J,PG</b> | <b>0.93</b> | <b>ug/kg</b> |
| 4,4'-DDE               | ND               | 0.93        | ug/kg        |
| Endrin                 | ND               | 0.93        | ug/kg        |
| Endrin ketone          | ND               | 0.93        | ug/kg        |
| Endrin aldehyde        | ND               | 0.93        | ug/kg        |
| Endosulfan II          | ND               | 0.93        | ug/kg        |
| 4,4'-DDD               | ND               | 0.93        | ug/kg        |
| Endosulfan sulfate     | ND               | 0.93        | ug/kg        |
| 4,4'-DDT               | ND               | 0.93        | ug/kg        |
| Methoxychlor           | ND               | 1.8         | ug/kg        |
| alpha-Chlordane        | ND               | 0.93        | ug/kg        |
| <b>gamma-Chlordane</b> | <b>0.25 J,PG</b> | <b>0.93</b> | <b>ug/kg</b> |
| Toxaphene              | ND               | 37          | ug/kg        |

| SURROGATE            | PERCENT  | RECOVERY   |
|----------------------|----------|------------|
|                      | RECOVERY | LIMITS     |
| Tetrachloro-m-xylene | 80       | (45 - 130) |
| Decachlorobiphenyl   | 90       | (45 - 130) |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

PG The percent difference between the original and confirmation analyses is greater than 40%.



Stantec Consulting Services Inc

Client Sample ID: WM-4

GC Semivolatiles

Lot-Sample #...: C0J060476-004    Work Order #...: L72341AE    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received...: 10/06/10    MS Run #.....: 0287044  
 Prep Date.....: 10/14/10    Analysis Date...: 10/21/10  
 Prep Batch #...: 0287077    Analysis Time...: 21:43  
 Dilution Factor: 0.5  
 % Moisture.....: 29    Method.....: SW846 8081A

| PARAMETER              | RESULT           | REPORTING  |              |
|------------------------|------------------|------------|--------------|
|                        |                  | LIMIT      | UNITS        |
| alpha-BHC              | ND               | 1.2        | ug/kg        |
| beta-BHC               | ND               | 1.2        | ug/kg        |
| <b>delta-BHC</b>       | <b>1.1 J</b>     | <b>1.2</b> | <b>ug/kg</b> |
| gamma-BHC (Lindane)    | ND               | 1.2        | ug/kg        |
| <b>Heptachlor</b>      | <b>0.44 J,PG</b> | <b>1.2</b> | <b>ug/kg</b> |
| Aldrin                 | ND               | 1.2        | ug/kg        |
| Heptachlor epoxide     | ND               | 1.2        | ug/kg        |
| Endosulfan I           | ND               | 1.2        | ug/kg        |
| <b>Dieldrin</b>        | <b>0.68 J,PG</b> | <b>1.2</b> | <b>ug/kg</b> |
| 4,4'-DDE               | ND               | 1.2        | ug/kg        |
| Endrin                 | ND               | 1.2        | ug/kg        |
| Endrin ketone          | ND               | 1.2        | ug/kg        |
| Endrin aldehyde        | ND               | 1.2        | ug/kg        |
| Endosulfan II          | ND               | 1.2        | ug/kg        |
| <b>4,4'-DDD</b>        | <b>0.98 J</b>    | <b>1.2</b> | <b>ug/kg</b> |
| Endosulfan sulfate     | ND               | 1.2        | ug/kg        |
| <b>4,4'-DDT</b>        | <b>0.43 J,PG</b> | <b>1.2</b> | <b>ug/kg</b> |
| Methoxychlor           | ND               | 2.3        | ug/kg        |
| alpha-Chlordane        | ND               | 1.2        | ug/kg        |
| <b>gamma-Chlordane</b> | <b>0.42 J,PG</b> | <b>1.2</b> | <b>ug/kg</b> |
| Toxaphene              | ND               | 95         | ug/kg        |

| SURROGATE            | PERCENT  | RECOVERY   |
|----------------------|----------|------------|
|                      | RECOVERY | LIMITS     |
| Tetrachloro-m-xylene | 70       | (45 - 130) |
| Decachlorobiphenyl   | 83       | (45 - 130) |

**NOTE(S):**

- Results and reporting limits have been adjusted for dry weight.
- J Estimated result. Result is less than RL.
- PG The percent difference between the original and confirmation analyses is greater than 40%.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C0J060476  
 MB Lot-Sample #: C0J140000-077  
 Analysis Date...: 10/21/10  
 Dilution Factor: 1

Work Order #...: L8FF51AA  
 Prep Date.....: 10/14/10  
 Prep Batch #...: 0287077

Matrix.....: SOLID  
 Analysis Time...: 23:37

| PARAMETER           | RESULT | REPORTING |       |             |
|---------------------|--------|-----------|-------|-------------|
|                     |        | LIMIT     | UNITS | METHOD      |
| alpha-BHC           | ND     | 1.7       | ug/kg | SW846 8081A |
| beta-BHC            | ND     | 1.7       | ug/kg | SW846 8081A |
| delta-BHC           | ND     | 1.7       | ug/kg | SW846 8081A |
| gamma-BHC (Lindane) | ND     | 1.7       | ug/kg | SW846 8081A |
| Heptachlor          | ND     | 1.7       | ug/kg | SW846 8081A |
| Aldrin              | ND     | 1.7       | ug/kg | SW846 8081A |
| Heptachlor epoxide  | ND     | 1.7       | ug/kg | SW846 8081A |
| Endosulfan I        | ND     | 1.7       | ug/kg | SW846 8081A |
| Dieldrin            | ND     | 1.7       | ug/kg | SW846 8081A |
| 4,4'-DDE            | ND     | 1.7       | ug/kg | SW846 8081A |
| Endrin              | ND     | 1.7       | ug/kg | SW846 8081A |
| Endrin ketone       | ND     | 1.7       | ug/kg | SW846 8081A |
| Endrin aldehyde     | ND     | 1.7       | ug/kg | SW846 8081A |
| Endosulfan II       | ND     | 1.7       | ug/kg | SW846 8081A |
| 4,4'-DDD            | ND     | 1.7       | ug/kg | SW846 8081A |
| Endosulfan sulfate  | ND     | 1.7       | ug/kg | SW846 8081A |
| 4,4'-DDT            | ND     | 1.7       | ug/kg | SW846 8081A |
| Methoxychlor        | ND     | 3.3       | ug/kg | SW846 8081A |
| alpha-Chlordane     | ND     | 1.7       | ug/kg | SW846 8081A |
| gamma-Chlordane     | ND     | 1.7       | ug/kg | SW846 8081A |
| Toxaphene           | ND     | 67        | ug/kg | SW846 8081A |

| SURROGATE            | PERCENT  | RECOVERY   |
|----------------------|----------|------------|
|                      | RECOVERY | LIMITS     |
| Tetrachloro-m-xylene | 64       | (45 - 130) |
| Decachlorobiphenyl   | 74       | (45 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0J060476      Work Order #...: L8FF51AC      Matrix.....: SOLID  
 LCS Lot-Sample#: C0J140000-077  
 Prep Date.....: 10/14/10      Analysis Date..: 10/21/10  
 Prep Batch #...: 0287077      Analysis Time..: 23:56  
 Dilution Factor: 1

| <u>PARAMETER</u>    | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>METHOD</u> |
|---------------------|-------------------------|------------------------|---------------|
| gamma-BHC (Lindane) | 75                      | (66 - 124)             | SW846 8081A   |
| Heptachlor          | 77                      | (70 - 128)             | SW846 8081A   |
| Aldrin              | 79                      | (70 - 123)             | SW846 8081A   |
| Dieldrin            | 82                      | (70 - 123)             | SW846 8081A   |
| Endrin              | 82                      | (70 - 127)             | SW846 8081A   |
| 4,4'-DDT            | 82                      | (61 - 126)             | SW846 8081A   |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| Tetrachloro-m-xylene | 77                      | (45 - 130)             |
| Decachlorobiphenyl   | 82                      | (45 - 130)             |

**NOTE(S):**

---

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0J060476      Work Order #...: L72341AU-MS      Matrix.....: SOLID  
 MS Lot-Sample #: C0J060476-004      L72341AV-MSD  
 Date Sampled...: 10/05/10      Date Received...: 10/06/10      MS Run #.....: 0287044  
 Prep Date.....: 10/14/10      Analysis Date...: 10/22/10  
 Prep Batch #...: 0287077      Analysis Time...: 06:56  
 Dilution Factor: 0.5      % Moisture.....: 29

| <u>PARAMETER</u>    | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> |
|---------------------|-------------------------|------------------------|------------|-------------------|---------------|
| gamma-BHC (Lindane) | 64 a                    | (66 - 124)             |            |                   | SW846 8081A   |
|                     | 56 a                    | (66 - 124)             | 14         | (0-20)            | SW846 8081A   |
| Heptachlor          | 69 a                    | (70 - 128)             |            |                   | SW846 8081A   |
|                     | 65 a                    | (70 - 128)             | 6.0        | (0-20)            | SW846 8081A   |
| Aldrin              | 68 a                    | (70 - 123)             |            |                   | SW846 8081A   |
|                     | 66 a                    | (70 - 123)             | 2.8        | (0-20)            | SW846 8081A   |
| Dieldrin            | 71                      | (70 - 123)             |            |                   | SW846 8081A   |
|                     | 72                      | (70 - 123)             | 0.94       | (0-20)            | SW846 8081A   |
| Endrin              | 71                      | (70 - 127)             |            |                   | SW846 8081A   |
|                     | 71                      | (70 - 127)             | 0.48       | (0-20)            | SW846 8081A   |
| 4,4'-DDT            | 65                      | (61 - 126)             |            |                   | SW846 8081A   |
|                     | 60 a                    | (61 - 126)             | 7.5        | (0-37)            | SW846 8081A   |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| Tetrachloro-m-xylene | 71                      | (45 - 130)             |
|                      | 71                      | (45 - 130)             |
| Decachlorobiphenyl   | 86                      | (45 - 130)             |
|                      | 82                      | (45 - 130)             |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters  
 a Spiked analyte recovery is outside stated control limits.  
 Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-1

GC Semivolatiles

Lot-Sample #...: C0J060476-001    Work Order #...: L72311AQ    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received...: 10/06/10    MS Run #.....: 0287046  
 Prep Date.....: 10/14/10    Analysis Date...: 10/21/10  
 Prep Batch #...: 0287079    Analysis Time...: 15:51  
 Dilution Factor: 0.49  
 % Moisture.....: 43    Method.....: SW846 8082

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> |              |
|------------------|---------------|------------------|--------------|
|                  |               | <u>LIMIT</u>     | <u>UNITS</u> |
| Aroclor 1016     | ND            | 14               | ug/kg        |
| Aroclor 1221     | ND            | 14               | ug/kg        |
| Aroclor 1232     | ND            | 14               | ug/kg        |
| Aroclor 1242     | ND            | 14               | ug/kg        |
| Aroclor 1248     | ND            | 14               | ug/kg        |
| Aroclor 1254     | ND            | 14               | ug/kg        |
| Aroclor 1260     | ND            | 14               | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u>  | <u>RECOVERY</u> |
|----------------------|-----------------|-----------------|
|                      | <u>RECOVERY</u> | <u>LIMITS</u>   |
| Tetrachloro-m-xylene | 70              | ( 35 - 140 )    |
| Decachlorobiphenyl   | 92              | ( 35 - 140 )    |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-2

GC Semivolatiles

Lot-Sample #...: C0J060476-002    Work Order #...: L72321AQ    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received...: 10/06/10    MS Run #.....: 0287046  
 Prep Date.....: 10/14/10    Analysis Date...: 10/21/10  
 Prep Batch #...: 0287079    Analysis Time...: 16:18  
 Dilution Factor: 0.5  
 % Moisture.....: 18    Method.....: SW846 8082

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> |              |
|------------------|---------------|------------------|--------------|
|                  |               | <u>LIMIT</u>     | <u>UNITS</u> |
| Aroclor 1016     | ND            | 10               | ug/kg        |
| Aroclor 1221     | ND            | 10               | ug/kg        |
| Aroclor 1232     | ND            | 10               | ug/kg        |
| Aroclor 1242     | ND            | 10               | ug/kg        |
| Aroclor 1248     | ND            | 10               | ug/kg        |
| Aroclor 1254     | ND            | 10               | ug/kg        |
| Aroclor 1260     | ND            | 10               | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT</u>  | <u>RECOVERY</u> |
|----------------------|-----------------|-----------------|
|                      | <u>RECOVERY</u> | <u>LIMITS</u>   |
| Tetrachloro-m-xylene | 86              | (35 - 140)      |
| Decachlorobiphenyl   | 89              | (35 - 140)      |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-3

GC Semivolatiles

**Lot-Sample #...**: C0J060476-003    **Work Order #...**: L72331AQ    **Matrix.....**: SOLID  
**Date Sampled...**: 10/05/10    **Date Received..**: 10/06/10    **MS Run #.....**: 0287046  
**Prep Date.....**: 10/14/10    **Analysis Date..**: 10/21/10  
**Prep Batch #...**: 0287079    **Analysis Time..**: 16:45  
**Dilution Factor**: 0.49  
**% Moisture.....**: 11    **Method.....**: SW846 8082

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u> |              |
|----------------------|-----------------|------------------|--------------|
|                      |                 | <u>LIMIT</u>     | <u>UNITS</u> |
| Aroclor 1016         | ND              | 9.1              | ug/kg        |
| Aroclor 1221         | ND              | 9.1              | ug/kg        |
| Aroclor 1232         | ND              | 9.1              | ug/kg        |
| Aroclor 1242         | ND              | 9.1              | ug/kg        |
| Aroclor 1248         | ND              | 9.1              | ug/kg        |
| Aroclor 1254         | ND              | 9.1              | ug/kg        |
| Aroclor 1260         | ND              | 9.1              | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>  |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>    |              |
| Tetrachloro-m-xylene | 99              | ( 35 - 140 )     |              |
| Decachlorobiphenyl   | 110             | ( 35 - 140 )     |              |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-4

GC Semivolatiles

Lot-Sample #...: C0J060476-004    Work Order #...: L72341AQ    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received..: 10/06/10    MS Run #.....: 0287046  
 Prep Date.....: 10/14/10    Analysis Date..: 10/21/10  
 Prep Batch #...: 0287079    Analysis Time..: 17:39  
 Dilution Factor: 0.5  
 % Moisture.....: 29    Method.....: SW846 8082

| <u>PARAMETER</u>     | <u>RESULT</u>   | <u>REPORTING</u> |              |
|----------------------|-----------------|------------------|--------------|
|                      |                 | <u>LIMIT</u>     | <u>UNITS</u> |
| Aroclor 1016         | ND              | 12               | ug/kg        |
| Aroclor 1221         | ND              | 12               | ug/kg        |
| Aroclor 1232         | ND              | 12               | ug/kg        |
| Aroclor 1242         | ND              | 12               | ug/kg        |
| Aroclor 1248         | ND              | 12               | ug/kg        |
| Aroclor 1254         | ND              | 12               | ug/kg        |
| Aroclor 1260         | ND              | 12               | ug/kg        |
|                      | <u>PERCENT</u>  | <u>RECOVERY</u>  |              |
| <u>SURROGATE</u>     | <u>RECOVERY</u> | <u>LIMITS</u>    |              |
| Tetrachloro-m-xylene | 83              | (35 - 140)       |              |
| Decachlorobiphenyl   | 102             | (35 - 140)       |              |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.



METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C0J060476  
MB Lot-Sample #: C0J140000-079  
Analysis Date...: 10/21/10  
Dilution Factor: 1

Work Order #...: L8FF71AA  
Prep Date.....: 10/14/10  
Prep Batch #...: 0287079

Matrix.....: SOLID  
Analysis Time...: 19:00

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> |              |               |
|------------------|---------------|------------------|--------------|---------------|
|                  |               | <u>LIMIT</u>     | <u>UNITS</u> | <u>METHOD</u> |
| Aroclor 1016     | ND            | 17               | ug/kg        | SW846 8082    |
| Aroclor 1221     | ND            | 17               | ug/kg        | SW846 8082    |
| Aroclor 1232     | ND            | 17               | ug/kg        | SW846 8082    |
| Aroclor 1242     | ND            | 17               | ug/kg        | SW846 8082    |
| Aroclor 1248     | ND            | 17               | ug/kg        | SW846 8082    |
| Aroclor 1254     | ND            | 17               | ug/kg        | SW846 8082    |
| Aroclor 1260     | ND            | 17               | ug/kg        | SW846 8082    |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| Tetrachloro-m-xylene | 75                      | ( 35 - 140 )           |
| Decachlorobiphenyl   | 87                      | ( 35 - 140 )           |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0J060476      Work Order #...: L8FF71AC      Matrix.....: SOLID  
 LCS Lot-Sample#: C0J140000-079  
 Prep Date.....: 10/14/10      Analysis Date..: 10/21/10  
 Prep Batch #...: 0287079      Analysis Time..: 19:28  
 Dilution Factor: 1

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>METHOD</u> |
|------------------|-------------------------|------------------------|---------------|
| Aroclor 1016     | 60                      | (55 - 130)             | SW846 8082    |
| Aroclor 1260     | 62                      | (54 - 130)             | SW846 8082    |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| Tetrachloro-m-xylene | 85                      | (35 - 140)             |
| Decachlorobiphenyl   | 90                      | (35 - 140)             |

**NOTE(S):**

---

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0J060476      Work Order #...: L72341AW-MS      Matrix.....: SOLID  
 MS Lot-Sample #: C0J060476-004      L72341AX-MSD  
 Date Sampled...: 10/05/10      Date Received...: 10/06/10      MS Run #.....: 0287046  
 Prep Date.....: 10/14/10      Analysis Date...: 10/21/10  
 Prep Batch #...: 0287079      Analysis Time...: 18:06  
 Dilution Factor: 0.5      % Moisture.....: 29

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> |
|------------------|-------------------------|------------------------|------------|-------------------|---------------|
| Aroclor 1016     | 78                      | (55 - 130)             |            |                   | SW846 8082    |
|                  | 63                      | (55 - 130)             | 22         | (0-35)            | SW846 8082    |
| Aroclor 1260     | 81                      | (54 - 130)             |            |                   | SW846 8082    |
|                  | 67                      | (54 - 130)             | 20         | (0-29)            | SW846 8082    |

| <u>SURROGATE</u>     | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|----------------------|-------------------------|------------------------|
| Tetrachloro-m-xylene | 87                      | (35 - 140)             |
|                      | 84                      | (35 - 140)             |
| Decachlorobiphenyl   | 99                      | (35 - 140)             |
|                      | 92                      | (35 - 140)             |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters  
 Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-1

GC Semivolatiles

Lot-Sample #...: C0J060476-001    Work Order #...: L72311AF    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received..: 10/06/10    MS Run #.....:  
 Prep Date.....: 10/07/10    Analysis Date..: 10/15/10  
 Prep Batch #...: 0280279    Analysis Time..: 15:09  
 Dilution Factor: 1  
 % Moisture.....: 43    Method.....: SW846 8151A

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u> |              |
|-------------------|---------------|------------------|--------------|
|                   |               | <u>LIMIT</u>     | <u>UNITS</u> |
| 2,4-D             | ND            | 140              | ug/kg        |
| Dalapon           | ND            | 160              | ug/kg        |
| 2,4-DB            | ND            | 140              | ug/kg        |
| Dicamba           | ND            | 70               | ug/kg        |
| Dichlorprop       | ND            | 140              | ug/kg        |
| Dinoseb           | ND            | 21               | ug/kg        |
| MCPA              | ND            | 14000            | ug/kg        |
| MCPP              | ND            | 14000            | ug/kg        |
| Pentachlorophenol | ND            | 19               | ug/kg        |
| 2,4,5-TP (Silvex) | ND            | 35               | ug/kg        |
| 2,4,5-T           | ND            | 35               | ug/kg        |

| <u>SURROGATE</u> | <u>PERCENT</u>  | <u>RECOVERY</u> |
|------------------|-----------------|-----------------|
|                  | <u>RECOVERY</u> | <u>LIMITS</u>   |
| DCAA             | 70              | (42 - 140)      |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-2

GC Semivolatiles

Lot-Sample #...: C0J060476-002    Work Order #...: L72321AF    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received...: 10/06/10    MS Run #.....:  
 Prep Date.....: 10/07/10    Analysis Date...: 10/15/10  
 Prep Batch #...: 0280279    Analysis Time...: 15:32  
 Dilution Factor: 1  
 % Moisture.....: 18    Method.....: SW846 8151A

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u> |              |
|-------------------|---------------|------------------|--------------|
|                   |               | <u>LIMIT</u>     | <u>UNITS</u> |
| 2,4-D             | ND            | 97               | ug/kg        |
| Dalapon           | ND            | 110              | ug/kg        |
| 2,4-DB            | ND            | 97               | ug/kg        |
| Dicamba           | ND            | 49               | ug/kg        |
| Dichlorprop       | ND            | 97               | ug/kg        |
| Dinoseb           | ND            | 15               | ug/kg        |
| MCPA              | ND            | 9700             | ug/kg        |
| MCPP              | ND            | 9700             | ug/kg        |
| Pentachlorophenol | ND            | 13               | ug/kg        |
| 2,4,5-TP (Silvex) | ND            | 24               | ug/kg        |
| 2,4,5-T           | ND            | 24               | ug/kg        |

| <u>SURROGATE</u> | <u>PERCENT</u>  | <u>RECOVERY</u> |
|------------------|-----------------|-----------------|
|                  | <u>RECOVERY</u> | <u>LIMITS</u>   |
| DCAA             | 80              | (42 - 140)      |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-3

GC Semivolatiles

Lot-Sample #...: C0J060476-003    Work Order #...: L72331AF    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received..: 10/06/10    MS Run #.....:  
 Prep Date.....: 10/07/10    Analysis Date..: 10/15/10  
 Prep Batch #...: 0280279    Analysis Time..: 15:55  
 Dilution Factor: 1  
 % Moisture.....: 11    Method.....: SW846 8151A

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u> |              |
|-------------------|---------------|------------------|--------------|
|                   |               | <u>LIMIT</u>     | <u>UNITS</u> |
| 2,4-D             | ND            | 90               | ug/kg        |
| Dalapon           | ND            | 100              | ug/kg        |
| 2,4-DB            | ND            | 90               | ug/kg        |
| Dicamba           | ND            | 45               | ug/kg        |
| Dichlorprop       | ND            | 90               | ug/kg        |
| Dinoseb           | ND            | 13               | ug/kg        |
| MCPA              | ND            | 9000             | ug/kg        |
| MCPP              | ND            | 9000             | ug/kg        |
| Pentachlorophenol | ND            | 12               | ug/kg        |
| 2,4,5-TP (Silvex) | ND            | 22               | ug/kg        |
| 2,4,5-T           | ND            | 22               | ug/kg        |

| <u>SURROGATE</u> | <u>PERCENT</u>  | <u>RECOVERY</u> |
|------------------|-----------------|-----------------|
|                  | <u>RECOVERY</u> | <u>LIMITS</u>   |
| DCAA             | 64              | (42 - 140)      |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-4

GC Semivolatiles

Lot-Sample #...: C0J060476-004    Work Order #...: L72341AF    Matrix.....: SOLID  
 Date Sampled...: 10/05/10    Date Received..: 10/06/10    MS Run #.....:  
 Prep Date.....: 10/07/10    Analysis Date..: 10/15/10  
 Prep Batch #...: 0280279    Analysis Time..: 16:18  
 Dilution Factor: 1  
 % Moisture.....: 29    Method.....: SW846 8151A

| <u>PARAMETER</u>         | <u>RESULT</u> | <u>REPORTING</u> |              |
|--------------------------|---------------|------------------|--------------|
|                          |               | <u>LIMIT</u>     | <u>UNITS</u> |
| 2,4-D                    | ND            | 110              | ug/kg        |
| Dalapon                  | ND            | 130              | ug/kg        |
| 2,4-DB                   | ND            | 110              | ug/kg        |
| Dicamba                  | ND            | 57               | ug/kg        |
| Dichlorprop              | ND            | 110              | ug/kg        |
| Dinoseb                  | ND            | 17               | ug/kg        |
| MCPA                     | ND            | 11000            | ug/kg        |
| MCPP                     | ND            | 11000            | ug/kg        |
| <b>Pentachlorophenol</b> | <b>2.3 J</b>  | <b>16</b>        | <b>ug/kg</b> |
| 2,4,5-TP (Silvex)        | ND            | 28               | ug/kg        |
| 2,4,5-T                  | ND            | 28               | ug/kg        |

| <u>SURROGATE</u> | <u>PERCENT</u>  | <u>RECOVERY</u> |
|------------------|-----------------|-----------------|
|                  | <u>RECOVERY</u> | <u>LIMITS</u>   |
| DCAA             | 62              | (42 - 140)      |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C0J060476  
MB Lot-Sample #: C0J070000-279  
Analysis Date...: 10/15/10  
Dilution Factor: 1

Work Order #...: L743E1AA  
Prep Date.....: 10/07/10  
Prep Batch #...: 0280279

Matrix.....: SOLID  
Analysis Time...: 16:41

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u> |              |               |
|-------------------|---------------|------------------|--------------|---------------|
|                   |               | <u>LIMIT</u>     | <u>UNITS</u> | <u>METHOD</u> |
| 2,4-D             | ND            | 80               | ug/kg        | SW846 8151A   |
| Dalapon           | ND            | 90               | ug/kg        | SW846 8151A   |
| 2,4-DB            | ND            | 80               | ug/kg        | SW846 8151A   |
| Dicamba           | ND            | 40               | ug/kg        | SW846 8151A   |
| Dichlorprop       | ND            | 80               | ug/kg        | SW846 8151A   |
| Dinoseb           | ND            | 12               | ug/kg        | SW846 8151A   |
| MCPA              | ND            | 8000             | ug/kg        | SW846 8151A   |
| MCPP              | ND            | 8000             | ug/kg        | SW846 8151A   |
| Pentachlorophenol | ND            | 11               | ug/kg        | SW846 8151A   |
| 2,4,5-TP (Silvex) | ND            | 20               | ug/kg        | SW846 8151A   |
| 2,4,5-T           | ND            | 20               | ug/kg        | SW846 8151A   |

| <u>SURROGATE</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|------------------|-------------------------|------------------------|
| DCAA             | 82                      | (42 - 140)             |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0J060476      Work Order #...: L743E1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: C0J070000-279      L743E1AD-LCSD  
 Prep Date.....: 10/07/10      Analysis Date..: 10/15/10  
 Prep Batch #...: 0280279      Analysis Time..: 17:04  
 Dilution Factor: 1

| <u>PARAMETER</u>         | PERCENT<br><u>RECOVERY</u> | RECOVERY<br><u>LIMITS</u> | RPD | RPD<br><u>LIMITS</u> | <u>METHOD</u>      |
|--------------------------|----------------------------|---------------------------|-----|----------------------|--------------------|
| <b>2,4-D</b>             | <b>64</b>                  | <b>(30 - 140)</b>         |     |                      | <b>SW846 8151A</b> |
|                          | 63                         | (30 - 140)                | 2.0 | (0-30)               | SW846 8151A        |
| <b>Pentachlorophenol</b> | <b>93</b>                  | <b>(60 - 140)</b>         |     |                      | <b>SW846 8151A</b> |
|                          | 77                         | (60 - 140)                | 20  | (0-30)               | SW846 8151A        |
| <b>2,4,5-TP (Silvex)</b> | <b>83</b>                  | <b>(40 - 130)</b>         |     |                      | <b>SW846 8151A</b> |
|                          | 75                         | (40 - 130)                | 10  | (0-30)               | SW846 8151A        |
| <b>2,4,5-T</b>           | <b>73</b>                  | <b>(30 - 140)</b>         |     |                      | <b>SW846 8151A</b> |
|                          | 72                         | (30 - 140)                | 2.2 | (0-30)               | SW846 8151A        |
| <b>2,4-DB</b>            | <b>69</b>                  | <b>(34 - 140)</b>         |     |                      | <b>SW846 8151A</b> |
|                          | 62                         | (34 - 140)                | 12  | (0-30)               | SW846 8151A        |
| <b>Dalapon</b>           | <b>55</b>                  | <b>(36 - 120)</b>         |     |                      | <b>SW846 8151A</b> |
|                          | 50                         | (36 - 120)                | 9.6 | (0-30)               | SW846 8151A        |
| <b>Dicamba</b>           | <b>89</b>                  | <b>(50 - 140)</b>         |     |                      | <b>SW846 8151A</b> |
|                          | 75                         | (50 - 140)                | 16  | (0-30)               | SW846 8151A        |
| <b>Dichlorprop</b>       | <b>79</b>                  | <b>(50 - 130)</b>         |     |                      | <b>SW846 8151A</b> |
|                          | 72                         | (50 - 130)                | 10  | (0-30)               | SW846 8151A        |
| <b>Dinoseb</b>           | <b>113</b>                 | <b>(10 - 140)</b>         |     |                      | <b>SW846 8151A</b> |
|                          | 96                         | (10 - 140)                | 17  | (0-30)               | SW846 8151A        |
| <b>MCPA</b>              | <b>71</b>                  | <b>(50 - 120)</b>         |     |                      | <b>SW846 8151A</b> |
|                          | 69                         | (50 - 120)                | 2.6 | (0-30)               | SW846 8151A        |
| <b>MCPP</b>              | <b>83</b>                  | <b>(50 - 140)</b>         |     |                      | <b>SW846 8151A</b> |
|                          | 73                         | (50 - 140)                | 14  | (0-30)               | SW846 8151A        |

| <u>SURROGATE</u> | PERCENT<br><u>RECOVERY</u> | RECOVERY<br><u>LIMITS</u> |
|------------------|----------------------------|---------------------------|
| DCAA             | 91                         | (42 - 140)                |
|                  | 74                         | (42 - 140)                |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

Stantec Consulting Services Inc

Client Sample ID: WM-1

TOTAL Metals

Lot-Sample #...: C0J060476-001

Matrix.....: SOLID

Date Sampled...: 10/05/10

Date Received...: 10/06/10

% Moisture.....: 43

| PARAMETER                | RESULT | REPORTING<br>LIMIT    | UNITS | METHOD                 | PREPARATION-<br>ANALYSIS DATE | WORK<br>ORDER # |
|--------------------------|--------|-----------------------|-------|------------------------|-------------------------------|-----------------|
| Prep Batch #...: 0292036 |        |                       |       |                        |                               |                 |
| Mercury                  | 0.059  | 0.029                 | mg/kg | SW846 7471A            | 10/20/10                      | L72311AP        |
|                          |        | Dilution Factor: 0.5  |       | Analysis Time..: 08:57 | MS Run #.....: 0292028        |                 |
| Prep Batch #...: 0292394 |        |                       |       |                        |                               |                 |
| Arsenic                  | 6.3    | 1.1                   | mg/kg | SW846 6010B            | 10/19-10/20/10                | L72311AG        |
|                          |        | Dilution Factor: 0.62 |       | Analysis Time..: 23:50 | MS Run #.....: 0292198        |                 |
| Barium                   | 106 J  | 21.9                  | mg/kg | SW846 6010B            | 10/19-10/20/10                | L72311AH        |
|                          |        | Dilution Factor: 0.62 |       | Analysis Time..: 23:50 | MS Run #.....: 0292198        |                 |
| Cadmium                  | 0.53 B | 0.55                  | mg/kg | SW846 6010B            | 10/19-10/20/10                | L72311AJ        |
|                          |        | Dilution Factor: 0.62 |       | Analysis Time..: 23:50 | MS Run #.....: 0292198        |                 |
| Chromium                 | 13.7   | 0.55                  | mg/kg | SW846 6010B            | 10/19-10/20/10                | L72311AK        |
|                          |        | Dilution Factor: 0.62 |       | Analysis Time..: 23:50 | MS Run #.....: 0292198        |                 |
| Lead                     | 13.8   | 0.33                  | mg/kg | SW846 6010B            | 10/19-10/20/10                | L72311AL        |
|                          |        | Dilution Factor: 0.62 |       | Analysis Time..: 23:50 | MS Run #.....: 0292198        |                 |
| Selenium                 | 0.45 B | 0.55                  | mg/kg | SW846 6010B            | 10/19-10/20/10                | L72311AM        |
|                          |        | Dilution Factor: 0.62 |       | Analysis Time..: 23:50 | MS Run #.....: 0292198        |                 |
| Silver                   | 0.16 B | 0.55                  | mg/kg | SW846 6010B            | 10/19-10/20/10                | L72311AN        |
|                          |        | Dilution Factor: 0.62 |       | Analysis Time..: 23:50 | MS Run #.....: 0292198        |                 |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Stantec Consulting Services Inc

Client Sample ID: WM-2

TOTAL Metals

Lot-Sample #...: C0J060476-002

Matrix.....: SOLID

Date Sampled...: 10/05/10

Date Received...: 10/06/10

% Moisture.....: 18

| PARAMETER                | RESULT  | REPORTING             |       | METHOD                 | PREPARATION-           | WORK     |
|--------------------------|---------|-----------------------|-------|------------------------|------------------------|----------|
|                          |         | LIMIT                 | UNITS |                        | ANALYSIS DATE          | ORDER #  |
| Prep Batch #...: 0292036 |         |                       |       |                        |                        |          |
| Mercury                  | 0.014 B | 0.020                 | mg/kg | SW846 7471A            | 10/20/10               | L72321AP |
|                          |         | Dilution Factor: 0.5  |       | Analysis Time..: 09:02 | MS Run #.....: 0292028 |          |
| Prep Batch #...: 0292394 |         |                       |       |                        |                        |          |
| Arsenic                  | 5.6     | 0.68                  | mg/kg | SW846 6010B            | 10/19-10/21/10         | L72321AG |
|                          |         | Dilution Factor: 0.56 |       | Analysis Time..: 00:12 | MS Run #.....: 0292198 |          |
| Barium                   | 27.6 J  | 13.6                  | mg/kg | SW846 6010B            | 10/19-10/21/10         | L72321AH |
|                          |         | Dilution Factor: 0.56 |       | Analysis Time..: 00:12 | MS Run #.....: 0292198 |          |
| Cadmium                  | 0.31 B  | 0.34                  | mg/kg | SW846 6010B            | 10/19-10/21/10         | L72321AJ |
|                          |         | Dilution Factor: 0.56 |       | Analysis Time..: 00:12 | MS Run #.....: 0292198 |          |
| Chromium                 | 4.1     | 0.34                  | mg/kg | SW846 6010B            | 10/19-10/21/10         | L72321AK |
|                          |         | Dilution Factor: 0.56 |       | Analysis Time..: 00:12 | MS Run #.....: 0292198 |          |
| Lead                     | 3.3     | 0.20                  | mg/kg | SW846 6010B            | 10/19-10/21/10         | L72321AL |
|                          |         | Dilution Factor: 0.56 |       | Analysis Time..: 00:12 | MS Run #.....: 0292198 |          |
| Selenium                 | ND      | 0.34                  | mg/kg | SW846 6010B            | 10/19-10/21/10         | L72321AM |
|                          |         | Dilution Factor: 0.56 |       | Analysis Time..: 00:12 | MS Run #.....: 0292198 |          |
| Silver                   | 0.085 B | 0.34                  | mg/kg | SW846 6010B            | 10/19-10/21/10         | L72321AN |
|                          |         | Dilution Factor: 0.56 |       | Analysis Time..: 00:12 | MS Run #.....: 0292198 |          |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Stantec Consulting Services Inc

Client Sample ID: WM-3

TOTAL Metals

Lot-Sample #...: C0J060476-003

Matrix.....: SOLID

Date Sampled...: 10/05/10

Date Received...: 10/06/10

% Moisture.....: 11

| PARAMETER                       | RESULT | REPORTING            |       | METHOD                 | PREPARATION-<br>ANALYSIS DATE | WORK<br>ORDER # |
|---------------------------------|--------|----------------------|-------|------------------------|-------------------------------|-----------------|
|                                 |        | LIMIT                | UNITS |                        |                               |                 |
| <b>Prep Batch #...: 0292036</b> |        |                      |       |                        |                               |                 |
| Mercury                         | ND     | 0.018                | mg/kg | SW846 7471A            | 10/20/10                      | L72331AP        |
|                                 |        | Dilution Factor: 0.5 |       | Analysis Time..: 09:04 | MS Run #.....: 0292028        |                 |
| <b>Prep Batch #...: 0292394</b> |        |                      |       |                        |                               |                 |
| Arsenic                         | 2.0    | 0.56                 | mg/kg | SW846 6010B            | 10/19-10/21/10                | L72331AG        |
|                                 |        | Dilution Factor: 0.5 |       | Analysis Time..: 00:18 | MS Run #.....: 0292198        |                 |
| Barium                          | 17.2 J | 11.2                 | mg/kg | SW846 6010B            | 10/19-10/21/10                | L72331AH        |
|                                 |        | Dilution Factor: 0.5 |       | Analysis Time..: 00:18 | MS Run #.....: 0292198        |                 |
| Cadmium                         | 0.21 B | 0.28                 | mg/kg | SW846 6010B            | 10/19-10/21/10                | L72331AJ        |
|                                 |        | Dilution Factor: 0.5 |       | Analysis Time..: 00:18 | MS Run #.....: 0292198        |                 |
| Chromium                        | 3.0    | 0.28                 | mg/kg | SW846 6010B            | 10/19-10/21/10                | L72331AK        |
|                                 |        | Dilution Factor: 0.5 |       | Analysis Time..: 00:18 | MS Run #.....: 0292198        |                 |
| Lead                            | 2.0    | 0.17                 | mg/kg | SW846 6010B            | 10/19-10/21/10                | L72331AL        |
|                                 |        | Dilution Factor: 0.5 |       | Analysis Time..: 00:18 | MS Run #.....: 0292198        |                 |
| Selenium                        | ND     | 0.28                 | mg/kg | SW846 6010B            | 10/19-10/21/10                | L72331AM        |
|                                 |        | Dilution Factor: 0.5 |       | Analysis Time..: 00:18 | MS Run #.....: 0292198        |                 |
| Silver                          | ND     | 0.28                 | mg/kg | SW846 6010B            | 10/19-10/21/10                | L72331AN        |
|                                 |        | Dilution Factor: 0.5 |       | Analysis Time..: 00:18 | MS Run #.....: 0292198        |                 |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Stantec Consulting Services Inc

Client Sample ID: WM-4

TOTAL Metals

Lot-Sample #...: C0J060476-004

Matrix.....: SOLID

Date Sampled...: 10/05/10

Date Received...: 10/06/10

% Moisture.....: 29

| PARAMETER                | RESULT  | REPORTING             |       | METHOD                 | PREPARATION-           | WORK     |
|--------------------------|---------|-----------------------|-------|------------------------|------------------------|----------|
|                          |         | LIMIT                 | UNITS |                        | ANALYSIS DATE          | ORDER #  |
| Prep Batch #...: 0292036 |         |                       |       |                        |                        |          |
| Mercury                  | 0.016 B | 0.023                 | mg/kg | SW846 7471A            | 10/20/10               | L72341AP |
|                          |         | Dilution Factor: 0.5  |       | Analysis Time..: 09:06 | MS Run #.....: 0292028 |          |
| Prep Batch #...: 0292394 |         |                       |       |                        |                        |          |
| Arsenic                  | 5.4     | 0.88                  | mg/kg | SW846 6010B            | 10/19-10/21/10         | L72341AG |
|                          |         | Dilution Factor: 0.62 |       | Analysis Time..: 00:23 | MS Run #.....: 0292198 |          |
| Barium                   | 41.6 J  | 17.6                  | mg/kg | SW846 6010B            | 10/19-10/21/10         | L72341AH |
|                          |         | Dilution Factor: 0.62 |       | Analysis Time..: 00:23 | MS Run #.....: 0292198 |          |
| Cadmium                  | 0.26 B  | 0.44                  | mg/kg | SW846 6010B            | 10/19-10/21/10         | L72341AJ |
|                          |         | Dilution Factor: 0.62 |       | Analysis Time..: 00:23 | MS Run #.....: 0292198 |          |
| Chromium                 | 7.7     | 0.44                  | mg/kg | SW846 6010B            | 10/19-10/21/10         | L72341AK |
|                          |         | Dilution Factor: 0.62 |       | Analysis Time..: 00:23 | MS Run #.....: 0292198 |          |
| Lead                     | 5.5     | 0.26                  | mg/kg | SW846 6010B            | 10/19-10/21/10         | L72341AL |
|                          |         | Dilution Factor: 0.62 |       | Analysis Time..: 00:23 | MS Run #.....: 0292198 |          |
| Selenium                 | ND      | 0.44                  | mg/kg | SW846 6010B            | 10/19-10/21/10         | L72341AM |
|                          |         | Dilution Factor: 0.62 |       | Analysis Time..: 00:23 | MS Run #.....: 0292198 |          |
| Silver                   | 0.10 B  | 0.44                  | mg/kg | SW846 6010B            | 10/19-10/21/10         | L72341AN |
|                          |         | Dilution Factor: 0.62 |       | Analysis Time..: 00:23 | MS Run #.....: 0292198 |          |

**NOTE(S):**

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C0J060476

Matrix.....: SOLID

| PARAMETER   | RESULT         | REPORTING<br>LIMIT     | UNITS        | METHOD             | PREPARATION-<br>ANALYSIS DATE | WORK<br>ORDER # |
|---|----------------|------------------------|--------------|--------------------|-------------------------------|-----------------|
| <b>MB Lot-Sample #:</b> C0J190000-036 <b>Prep Batch #...:</b> 0292036 |                |                        |              |                    |                               |                 |
| Mercury   | ND             | 0.016                  | mg/kg        | SW846 7471A        | 10/20/10                      | L8NVA1AA        |
|   |                | Dilution Factor: 0.5   |              |                    |                               |                 |
|   |                | Analysis Time..: 08:21 |              |                    |                               |                 |
| <b>MB Lot-Sample #:</b> C0J190000-394 <b>Prep Batch #...:</b> 0292394 |                |                        |              |                    |                               |                 |
| Arsenic   | ND             | 0.49                   | mg/kg        | SW846 6010B        | 10/19-10/20/10                | L8P111AA        |
|   |                | Dilution Factor: 0.49  |              |                    |                               |                 |
|   |                | Analysis Time..: 23:28 |              |                    |                               |                 |
| <b>Barium</b>   | <b>0.061 B</b> | <b>9.8</b>             | <b>mg/kg</b> | <b>SW846 6010B</b> | <b>10/19-10/20/10</b>         | <b>L8P111AC</b> |
|   |                | Dilution Factor: 0.49  |              |                    |                               |                 |
|   |                | Analysis Time..: 23:28 |              |                    |                               |                 |
| Cadmium   | ND             | 0.24                   | mg/kg        | SW846 6010B        | 10/19-10/20/10                | L8P111AD        |
|   |                | Dilution Factor: 0.49  |              |                    |                               |                 |
|   |                | Analysis Time..: 23:28 |              |                    |                               |                 |
| Chromium  | ND             | 0.24                   | mg/kg        | SW846 6010B        | 10/19-10/20/10                | L8P111AE        |
|   |                | Dilution Factor: 0.49  |              |                    |                               |                 |
|   |                | Analysis Time..: 23:28 |              |                    |                               |                 |
| Lead  | ND             | 0.15                   | mg/kg        | SW846 6010B        | 10/19-10/20/10                | L8P111AF        |
|   |                | Dilution Factor: 0.49  |              |                    |                               |                 |
|   |                | Analysis Time..: 23:28 |              |                    |                               |                 |
| Selenium  | ND             | 0.24                   | mg/kg        | SW846 6010B        | 10/19-10/20/10                | L8P111AG        |
|   |                | Dilution Factor: 0.49  |              |                    |                               |                 |
|   |                | Analysis Time..: 23:28 |              |                    |                               |                 |
| Silver  | ND             | 0.24                   | mg/kg        | SW846 6010B        | 10/19-10/20/10                | L8P111AH        |
|   |                | Dilution Factor: 0.49  |              |                    |                               |                 |
|   |                | Analysis Time..: 23:28 |              |                    |                               |                 |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**TOTAL Metals**

**Client Lot #...**: C0J060476

**Matrix.....**: SOLID

| <u>PARAMETER</u>  | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>METHOD</u>          | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|---|-------------------------|------------------------|------------------------|-----------------------------------|---------------------|
| <b>LCS Lot-Sample#</b> : C0J190000-036 <b>Prep Batch #...</b> : 0292036 |                         |                        |                        |                                   |                     |
| Mercury   | 100                     | (80 - 120)             | SW846 7471A            | 10/20/10                          | L8NVA1AC            |
|   |                         | Dilution Factor: 0.5   | Analysis Time..: 08:23 |                                   |                     |
| <b>LCS Lot-Sample#</b> : C0J190000-394 <b>Prep Batch #...</b> : 0292394 |                         |                        |                        |                                   |                     |
| Arsenic   | 92                      | (80 - 120)             | SW846 6010B            | 10/19-10/20/10                    | L8P111AJ            |
|   |                         | Dilution Factor: 0.89  | Analysis Time..: 23:34 |                                   |                     |
| Barium  | 93                      | (80 - 120)             | SW846 6010B            | 10/19-10/20/10                    | L8P111AK            |
|   |                         | Dilution Factor: 0.89  | Analysis Time..: 23:34 |                                   |                     |
| Cadmium   | 94                      | (80 - 120)             | SW846 6010B            | 10/19-10/20/10                    | L8P111AL            |
|   |                         | Dilution Factor: 0.89  | Analysis Time..: 23:34 |                                   |                     |
| Chromium  | 93                      | (80 - 120)             | SW846 6010B            | 10/19-10/20/10                    | L8P111AM            |
|   |                         | Dilution Factor: 0.89  | Analysis Time..: 23:34 |                                   |                     |
| Lead  | 93                      | (80 - 120)             | SW846 6010B            | 10/19-10/20/10                    | L8P111AN            |
|   |                         | Dilution Factor: 0.89  | Analysis Time..: 23:34 |                                   |                     |
| Selenium  | 90                      | (80 - 120)             | SW846 6010B            | 10/19-10/20/10                    | L8P111AP            |
|   |                         | Dilution Factor: 0.89  | Analysis Time..: 23:34 |                                   |                     |
| Silver  | 91                      | (80 - 120)             | SW846 6010B            | 10/19-10/20/10                    | L8P111AQ            |
|   |                         | Dilution Factor: 0.89  | Analysis Time..: 23:34 |                                   |                     |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**TOTAL Metals**

Client Lot #...: C0J060476

Matrix.....: SOLID

Date Sampled...: 10/05/10

Date Received...: 10/06/10

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|-------------------------|------------------------|------------|-------------------|---------------|-----------------------------------|---------------------|
|------------------|-------------------------|------------------------|------------|-------------------|---------------|-----------------------------------|---------------------|

MS Lot-Sample #: C0J060476-001 Prep Batch #...: 0292394

% Moisture.....: 43

|          |    |            |     |        |                         |                |          |
|----------|----|------------|-----|--------|-------------------------|----------------|----------|
| Arsenic  | 88 | (75 - 125) |     |        | SW846 6010B             | 10/19-10/21/10 | L72311AT |
|          | 87 | (75 - 125) | 17  | (0-20) | SW846 6010B             | 10/19-10/21/10 | L72311AU |
|          |    |            |     |        | Dilution Factor: 0.6    |                |          |
|          |    |            |     |        | Analysis Time...: 00:01 |                |          |
|          |    |            |     |        | MS Run #.....: 0292198  |                |          |
| Barium   | 90 | (75 - 125) |     |        | SW846 6010B             | 10/19-10/21/10 | L72311AV |
|          | 89 | (75 - 125) | 11  | (0-20) | SW846 6010B             | 10/19-10/21/10 | L72311AW |
|          |    |            |     |        | Dilution Factor: 0.6    |                |          |
|          |    |            |     |        | Analysis Time...: 00:01 |                |          |
|          |    |            |     |        | MS Run #.....: 0292198  |                |          |
| Cadmium  | 85 | (75 - 125) |     |        | SW846 6010B             | 10/19-10/21/10 | L72311AX |
|          | 84 | (75 - 125) | 16  | (0-20) | SW846 6010B             | 10/19-10/21/10 | L72311A0 |
|          |    |            |     |        | Dilution Factor: 0.6    |                |          |
|          |    |            |     |        | Analysis Time...: 00:01 |                |          |
|          |    |            |     |        | MS Run #.....: 0292198  |                |          |
| Chromium | 86 | (75 - 125) |     |        | SW846 6010B             | 10/19-10/21/10 | L72311A1 |
|          | 85 | (75 - 125) | 9.4 | (0-20) | SW846 6010B             | 10/19-10/21/10 | L72311A2 |
|          |    |            |     |        | Dilution Factor: 0.6    |                |          |
|          |    |            |     |        | Analysis Time...: 00:01 |                |          |
|          |    |            |     |        | MS Run #.....: 0292198  |                |          |
| Lead     | 84 | (75 - 125) |     |        | SW846 6010B             | 10/19-10/21/10 | L72311A3 |
|          | 82 | (75 - 125) | 14  | (0-20) | SW846 6010B             | 10/19-10/21/10 | L72311A4 |
|          |    |            |     |        | Dilution Factor: 0.6    |                |          |
|          |    |            |     |        | Analysis Time...: 00:01 |                |          |
|          |    |            |     |        | MS Run #.....: 0292198  |                |          |
| Selenium | 86 | (75 - 125) |     |        | SW846 6010B             | 10/19-10/21/10 | L72311A5 |
|          | 84 | (75 - 125) | 18  | (0-20) | SW846 6010B             | 10/19-10/21/10 | L72311A6 |
|          |    |            |     |        | Dilution Factor: 0.6    |                |          |
|          |    |            |     |        | Analysis Time...: 00:01 |                |          |
|          |    |            |     |        | MS Run #.....: 0292198  |                |          |
| Silver   | 89 | (75 - 125) |     |        | SW846 6010B             | 10/19-10/21/10 | L72311A7 |
|          | 88 | (75 - 125) | 16  | (0-20) | SW846 6010B             | 10/19-10/21/10 | L72311A8 |
|          |    |            |     |        | Dilution Factor: 0.6    |                |          |
|          |    |            |     |        | Analysis Time...: 00:01 |                |          |
|          |    |            |     |        | MS Run #.....: 0292198  |                |          |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.



MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C0J060476

Matrix.....: SOLID

Date Sampled...: 10/04/10

Date Received...: 10/06/10

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|-------------------------|------------------------|------------|-------------------|---------------|-----------------------------------|---------------------|
|------------------|-------------------------|------------------------|------------|-------------------|---------------|-----------------------------------|---------------------|

MS Lot-Sample #: C0J070409-001 Prep Batch #...: 0292036

% Moisture.....: 42

|         |     |            |     |        |             |          |          |
|---------|-----|------------|-----|--------|-------------|----------|----------|
| Mercury | 97  | (75 - 125) |     |        | SW846 7471A | 10/20/10 | L734C1CL |
|         | 100 | (75 - 125) | 2.0 | (0-20) | SW846 7471A | 10/20/10 | L734C1CM |

Dilution Factor: 0.5  
Analysis Time..: 08:27  
MS Run #.....: 0292028

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

Stantec Consulting Services Inc

Client Sample ID: WM-1

General Chemistry

Lot-Sample #...: COJ060476-001    Work Order #...: L7231    Matrix.....: SOLID  
Date Sampled...: 10/05/10    Date Received..: 10/06/10  
% Moisture.....: 43

| <u>PARAMETER</u> | <u>RESULT</u> | <u>RL</u>          | <u>UNITS</u> | <u>METHOD</u>         | <u>PREPARATION-<br/>ANALYSIS DATE</u> | <u>PREP<br/>BATCH #</u> |
|------------------|---------------|--------------------|--------------|-----------------------|---------------------------------------|-------------------------|
| Percent Solids   | 56.8          |                    | %            | SM20 2540G            | 10/07-10/08/10                        | 0280073                 |
|                  |               | Dilution Factor: 1 |              | Analysis Time.: 09:04 | MS Run #.....: 0280055                |                         |

Stantec Consulting Services Inc

Client Sample ID: WM-2

General Chemistry

Lot-Sample #...: COJ060476-002    Work Order #...: L7232    Matrix.....: SOLID  
Date Sampled...: 10/05/10    Date Received..: 10/06/10  
% Moisture.....: 18

| <u>PARAMETER</u> | <u>RESULT</u> | <u>RL</u>          | <u>UNITS</u> | <u>METHOD</u>          | <u>PREPARATION-<br/>ANALYSIS DATE</u> | <u>PREP<br/>BATCH #</u> |
|------------------|---------------|--------------------|--------------|------------------------|---------------------------------------|-------------------------|
| Percent Solids   | 82.1          |                    | %            | SM20 2540G             | 10/07-10/08/10                        | 0280073                 |
|                  |               | Dilution Factor: 1 |              | Analysis Time..: 09:04 | MS Run #.....: 0280055                |                         |

Stantec Consulting Services Inc

Client Sample ID: WM-3

General Chemistry

Lot-Sample #...: COJ060476-003    Work Order #...: L7233    Matrix.....: SOLID  
Date Sampled...: 10/05/10    Date Received..: 10/06/10  
% Moisture.....: 11

| <u>PARAMETER</u> | <u>RESULT</u> | <u>RL</u>          | <u>UNITS</u> | <u>METHOD</u>          | <u>PREPARATION-<br/>ANALYSIS DATE</u> | <u>PREP<br/>BATCH #</u> |
|------------------|---------------|--------------------|--------------|------------------------|---------------------------------------|-------------------------|
| Percent Solids   | 89.4          |                    | %            | SM20 2540G             | 10/07-10/08/10                        | 0280073                 |
|                  |               | Dilution Factor: 1 |              | Analysis Time..: 09:04 | MS Run #.....: 0280055                |                         |

Stantec Consulting Services Inc

Client Sample ID: WM-4

General Chemistry

Lot-Sample #...: COJ060476-004    Work Order #...: L7234    Matrix.....: SOLID  
Date Sampled...: 10/05/10    Date Received..: 10/06/10  
% Moisture.....: 29

| <u>PARAMETER</u> | <u>RESULT</u> | <u>RL</u>          | <u>UNITS</u> | <u>METHOD</u>          | <u>PREPARATION-<br/>ANALYSIS DATE</u> | <u>PREP<br/>BATCH #</u> |
|------------------|---------------|--------------------|--------------|------------------------|---------------------------------------|-------------------------|
| Percent Solids   | 70.5          |                    | %            | SM20 2540G             | 10/07-10/08/10                        | 0280073                 |
|                  |               | Dilution Factor: 1 |              | Analysis Time..: 09:04 | MS Run #.....: 0280055                |                         |

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0J060476

Work Order #...: L7231-SMP  
L7231-DUP

Matrix.....: SOLID

Date Sampled...: 10/05/10

Date Received...: 10/06/10

% Moisture.....: 43

| <u>PARAM</u>   | <u>RESULT</u> | <u>DUPLICATE</u> | <u>UNITS</u>       | <u>RPD</u> | <u>LIMIT</u> | <u>METHOD</u>                                | <u>PREPARATION-</u>      | <u>PREP</u>    |
|----------------|---------------|------------------|--------------------|------------|--------------|--|--------------------------|----------------|
|                |               | <u>RESULT</u>    |                    |            |              |  | <u>ANALYSIS DATE</u>     | <u>BATCH #</u> |
| Percent Solids | 56.8          | 56.3             | %                  | 0.86       | (0-20)       | SD Lot-Sample #: C0J060476-001<br>SM20 2540G | 10/07-10/08/10           | 0280073        |
|                |               |                  | Dilution Factor: 1 |            |              | Analysis Time..: 09:04                       | MS Run Number..: 0280055 |                |