

July 30, 2013

Mr. Brett Middleton
Encana Oil & Gas (USA) Inc.
143 Diamond Ave
Parachute, CO 81635

Re: High Mesa Water Treatment Filter Press Waste Characterization

Rule Engineering LLC, (Rule) has completed the Waste Profile Sampling requested by Encana Oil & Gas (USA), Inc. (Encana). This report summarizes and documents the waste characterization activities.

Encana's Materials and Waste Coordinator determined the following waste stream to be characteristic of solid waste generated during Encana's operations that will be treated at the High Mesa Water Facility.

The High Mesa Water Treatment Filter Press was deemed representative of this waste stream and an analytical summary table is located at the end of the report. Field Notes are located in Appendix A, Analytical Data and Chain of Custody's (COC's) are located in Appendix B.

Sampling Activities

The waste profile sample was collected on June 11, 2013 from the side dump close to the Filter Press.

One multi point (3-point) composite sample was collected from the Filter Press material. The sample was collected from six (6) inches to two (2) feet below the stockpile surface. The following sample ID was assigned: HMWT-FC-061113. Summary of analytical results can be found in Table 1.

Sampling and Analytical Protocols

The sample was collected from the side dump by removing overburden material and sampling with nitrile gloves. The sample was composited by mixing the waste in a stainless steel bowl to comprise one analytical sample. Following sample collection each container was labeled with a waterproof marker and data was recorded in the sample documentation form and COC form. Samples were placed on ice in a cooler and shipped for laboratory analysis.

The soil sample was analyzed at Environmental Science Corporation (ESC) for the following parameters by the indicated analytical methods:

- Corrosivity (Method 9045D)

Mr. Brett Middleton
High Mesa Filter Cake Waste Char.
July 25, 2013
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- Chromium-Hexavalent, Chromium-Trivalent (Method 3060A/7196A, Calculation respectively)
- Ignitability, Burn Rate (Method D93/1010A, 1030B respectively)
- ORP (Method 2580)
- pH (Method 9045D)
- Paint Filter Test (Method 9095B)
- Reactive CN (Method 9012B)
- Reactive Sulf (Method 9034/9030B)
- Sodium Adsorption Ratio (Method Calculation)
- Specific Conductance (Method 9050AMod)
- Metals: Hg, As, Ba, Cd, Cr, Cu, Pb, Ni, Se, Ag, Zn (Method 6010B)
- TPH (Method GRO, 3546/DRO)
- Methanol, Ethanol (Method 8015M)
- VOC's, SVOC's (Method 8260B, 8270C respectively)
- TCLP Hg, As, Ba, Cd, Cr, Cu, Pb, Se, Ag (Method 7470-HG, 6010B)
- Naturally Occurring Radio Active Material (NORM) Gross Alpha, Gross Beta, Gross Gamma Scan (Method 901.1)

Samples were received in good condition, at appropriate temperatures, and analyzed within appropriate holding times.

Rule Engineering appreciates the opportunity to provide services to Encana Oil & Gas (USA) Inc. Please contact me at 970-244-8500 with any questions.

Sincerely,
Rule Engineering, LLC

Shad Johnson
Project Scientist/Manager

Summary Table

Table 1

| Sample ID | HM-SLO-070511 and HMWT-FC-061113 | | | | | | | | |
|------------------------|----------------------------------|----------|-------------------------|------|--------|-----------------------------|-------|-------|------|
| Lab Sample ID | L524386-02 and L | | | | | | | | |
| Method | Parameter | Units | Value | Qual | Method | Parameter | Units | Value | Qual |
| 9045D | Corrosivity | | Corrosive | | 8270C | Acenaphthene | mg/kg | <1.6 | O |
| 3060A/7196A | Chromium,Hexavalent | mg/kg | <2.0 | | 8270C | Acenaphthylene | mg/kg | <1.6 | O |
| Calc. | Chromium,Trivalent | mg/kg | 26 | | 8270C | Anthracene | mg/kg | <1.6 | O |
| D93/1010A | Ignitability | Deg. F | Did not Ignite @ 170F | | 8270C | Benzidine | mg/kg | <17 | J3,O |
| 2580 | ORP | mV | 63 | | 8270C | Benzo(a)anthracene | mg/kg | <1.6 | O |
| 9045D | pH | su | 12 | | 8270C | Benzo(b)fluoranthene | mg/kg | <1.6 | O |
| 9095B | Paint Filter Test | % | Contains No Free Liquid | | 8270C | Benzo(k)fluoranthene | mg/kg | <1.6 | O |
| 9012B | Reactive CN (SW846 7.3.3.2) | mg/kg | <0.125 | | 8270C | Benzo(g,h,i)perylene | mg/kg | <1.6 | O |
| 9034/9030B | Reactive Sulf.(SW846 7.3.4.1) | mg/kg | 42 | | 8270C | Benzo(a)pyrene | mg/kg | <1.6 | O |
| Calc. | Sodium Adsorption Ratio | | 15 | | 8270C | Bis(2-chloroethoxy)methane | mg/kg | <17 | O |
| 9050AMod | Specific Conductance | umhos/cm | 5600 | | 8270C | Bis(2-chloroethyl)ether | mg/kg | <17 | O |
| 8015D/GRO | TPH (GC/FID) Low Fraction | mg/kg | 17 | | 8270C | Bis(2-chloroisopropyl)ether | mg/kg | <17 | O |
| 3546/DRO | TPH (GC/FID) High Fraction | mg/kg | 5900 | | 8270C | 4-Bromophenyl-phenylether | mg/kg | <17 | O |
| 8015M | Methanol | mg/kg | 0.82 | | 8270C | 2-Chloronaphthalene | mg/kg | <1.6 | O |
| 8015M | Ethanol | mg/kg | 0.85 | | 8270C | 4-Chlorophenyl-phenylether | mg/kg | <17 | O |
| 8260B | Benzene | mg/kg | <0.050 | | 8270C | Chrysene | mg/kg | <1.6 | O |
| 8260B | Ethylbenzene | mg/kg | <0.050 | | 8270C | Dibenz(a,h)anthracene | mg/kg | <1.6 | O |
| 8260B | n-Hexane | mg/kg | <0.50 | | 8270C | 3,3-Dichlorobenzidine | mg/kg | <17 | O |
| 8260B | Toluene | mg/kg | <0.25 | | 8270C | 2,4-Dinitrotoluene | mg/kg | <17 | O |
| 8260B | Xylenes, Total | mg/kg | <0.15 | | 8270C | 2,6-Dinitrotoluene | mg/kg | <17 | O |
| Metals | | | | | | | | | |
| 7471 | Mercury | mg/kg | 0.042 | | 8270C | Fluoranthene | mg/kg | <1.6 | O |
| 6010B | Arsenic | mg/kg | <1.0 | | 8270C | Fluorene | mg/kg | <1.6 | O |
| 6010B | Barium | mg/kg | 5500 | | 8270C | Hexachlorobenzene | mg/kg | <17 | O |
| 6010B | Cadmium | mg/kg | <1.2 | O | 8270C | Hexachloro-1,3-butadiene | mg/kg | <17 | O |
| 6010B | Chromium | mg/kg | 26 | | 8270C | Hexachlorocyclopentadiene | mg/kg | <17 | O |
| 6010B | Copper | mg/kg | 60 | | 8270C | Hexachloroethane | mg/kg | <17 | O |
| 6010B | Lead | mg/kg | 10 | | 8270C | Indeno[1,2,3-cd]pyrene | mg/kg | <1.6 | O |
| 6010B | Nickel | mg/kg | 3.7 | | 8270C | Isophorone | mg/kg | <17 | O |
| 6010B | Selenium | mg/kg | <1.0 | | 8270C | Naphthalene | mg/kg | <1.6 | O |
| 6010B | Silver | mg/kg | <0.50 | | 8270C | Nitrobenzene | mg/kg | <17 | O |
| 6010B | Zinc | mg/kg | 38 | | 8270C | n-Nitrosodimethylamine | mg/kg | <17 | O |
| TCLP Extraction | | | | | | | | | |
| 7470A | Mercury | mg/l | <0.0010 | | 8270C | n-Nitrosodi-n-propylamine | mg/kg | <17 | O |
| 6010B | Arsenic | mg/l | <0.050 | | 8270C | Phenanthrene | mg/kg | <1.6 | O |
| 6010B | Barium | mg/l | 0.58 | | 8270C | Benzylbutyl phthalate | mg/kg | <17 | O |
| 6010B | Cadmium | mg/l | <0.050 | | 8270C | Bis(2-ethylhexyl)phthalate | mg/kg | <17 | O |
| 6010B | Chromium | mg/l | <0.050 | | 8270C | Di-n-butyl phthalate | mg/kg | <17 | O |
| 6010B | Lead | mg/l | <0.050 | | 8270C | Diethyl phthalate | mg/kg | <17 | O |
| 6010B | Selenium | mg/l | <0.050 | | 8270C | Dimethyl phthalate | mg/kg | <17 | O |
| 6010B | Silver | mg/l | <0.050 | | 8270C | Di-n-octyl phthalate | mg/kg | <17 | O |
| NORM | | | | | | | | | |
| 900 | Gross Alpha | pCi/gram | 16.8 +/- 3.3 | | 8270C | 1,2,4-Trichlorobenzene | mg/kg | <17 | O |
| 900 | Gross Beta | pCi/gram | 44.1 +/- 4.1 | | 8270C | 4-Chloro-3-methylphenol | mg/kg | <17 | O |
| 901.1 | Actinium-228 | pCi/gram | 0.5 +/- 0.1 | | 8270C | 2-Chlorophenol | mg/kg | <17 | O |
| 901.1 | Bismuth-214 | pCi/gram | 0.2 +/- 0.1 | | 8270C | 2,4-Dichlorophenol | mg/kg | <17 | O |
| 901.1 | Lead-212 | pCi/gram | 0.3 +/- 0.1 | | 8270C | 2,4-Dimethylphenol | mg/kg | <17 | O |
| 901.1 | Lead-214 | pCi/gram | 0.3 +/- 0.1 | | 8270C | 4,6-Dinitro-2-methylphenol | mg/kg | <17 | O |
| 901.1 | Potassium-40 | pCi/gram | 8.7 +/- 0.4 | | 8270C | 2,4-Dinitrophenol | mg/kg | <17 | O |
| 901.1 | Protactinium-234M | pCi/gram | <3.8 | | 8270C | 2-Nitrophenol | mg/kg | <17 | O |
| 901.1 | Radium-226 | pCi/gram | 0.3 +/- 0.1 | | 8270C | Pentachlorophenol | mg/kg | <17 | O |
| 901.1 | Radium-228 | pCi/gram | 0.5 +/- 0.1 | | 8270C | Phenol | mg/kg | <17 | J4,O |
| | | | | | 8270C | 2,4,6-Trichlorophenol | mg/kg | <17 | O |

Qualifiers:

O (ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

J4 The associated batch QC was outside the established quality control range for accuracy.

J3 The associated batch QC was outside the established quality control range for precision.

Appendix A



**PICEANCE BASIN
ENVIRONMENTAL COMPLIANCE GROUP
FIELD SAMPLING DATA FORM**

| |
|----------------------------|
| Document No: |
| ECG - F001.2 |
| Revised By - Date: |
| C. Hines - 06/05/12 |
| Reviewed By - Date: |
| B. Middleton - 01/09/12 |
| Approved By - Date: |
| C. Hines - 01/09/12 |

ALL soil samples collected on behalf of Encana's Parachute Field Office must be documented on the ECG Field Sampling Data Form.

NAMING CONVENTION: All "Sample IDs" used in this form, or with the lab's COC must conform with the following naming format: **Location - Sampling Matrix - Date**
Sample Matrix types must include these base descriptions or listed abbreviations: (other notations/abbreviations may be used in addition):

PS (Pit Spoil) | MOI (Material of Interest) | S (Spill) | PB (Pit Bottom) | BG (Background) | CUT (Cuttings) | WC (Waste Characterization)

Multiple samples collected from the same sampling matrix on the same location should include a cardinal direction abbreviation as part of the sampling matrix:
(e.g. PD30-BGNW-010312, PD30-BGS-010312, PD30-CUTW-010312)

| | | | | | | | | | |
|-------------------------|-----------------------|-----------------|------|---------------------------------|----------------------|----------------------------------|-----------------|--------------------|------|
| Sampler Name & Company: | Shel Johnson Rute Era | | | Location (Route): | Benzel - Hunter mesa | | Date of Sample: | 6-11-13 | |
| Sample ID: | HmWP - FP - 061113 | Time of Sample: | 0800 | Lat: (WGS 84 - decimal degrees) | 39.49925 | Long: (WGS 84 - decimal degrees) | -107.79008 | # of containers: | 4 |
| | | | | | | | | Composite or Grab: | comp |
| | | | | | | | | | |
| | | | | | | | | | |

Sample Documentation Procedure

1. PHOTOS – An adequate number to provide sample location in the context of the pad and to illustrate depth and texture of collected material.
2. GPS – A track must be taken while driving to the sampling location and while sampling. Waypoints must be taken at every sample point (composite or grab).
3. NOTES – Prepare sampling notes and site sketch below (Include sample locations, media dimensions, other waste not previously identified, estimated volumes of all waste on location, color and texture of sampled material, and depth of sample collection). Your site sketch should be adequate for someone, OTHER THAN YOURSELF, to be able to reconstruct approximately where your samples were collected and for what purpose.

Sampling Notes / Site Sketch

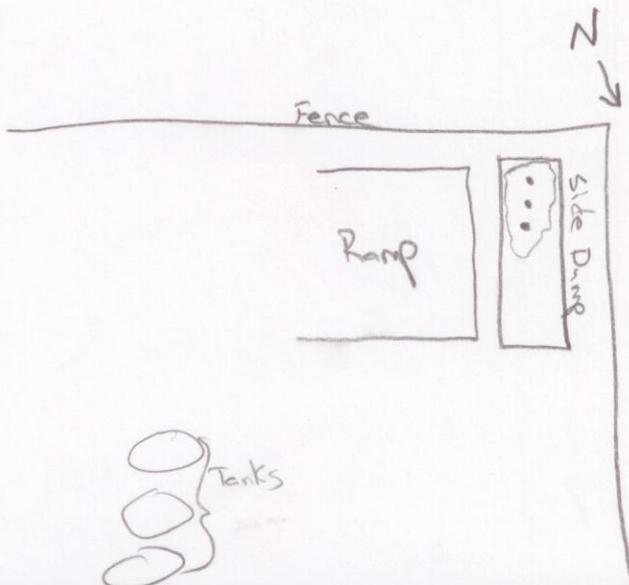
On Site 0740

Checkin
JHA

- Sunny 65°F

- collect composite sample of filter cake for NORM sampling
- Filter Cake is in side Dump on SW corner of facility

3 Point Composite Sample
WP # 760, 761, 762



Follow Up Procedures

1. Create "FieldData" folder within the appropriate site folder in the WASTE/ONSITE directory. (If you don't know where this is... ASK!)
2. Scan form to PDF and save in FieldData folder, using the name convention **Location - Field Notes (Date)** [e.g. PD30 - Field Notes (01-03-2012)]
3. Create "Photos" folder within FieldData folder and insert all photos taken during sampling event. Do not create a second Photos folder if one already exists. Use the camera wizard for consistent naming of photos. [e.g. PD30 - Pit Sampling (01-03-2012)]
4. Create GDB (garmin format) file from collected GPS data. GDB file should include all samples collected on a given day in one file. Copy GDB file to identified "mapsouce" file using established naming format. [e.g. Walsh Sampling (01-03-2012)]

Appendix B



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Brett Middleton / Brad Kieding
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

Report Summary

Wednesday July 13, 2011

Report Number: L524386

Samples Received: 07/06/11

Client Project: SUNNY SIDE

Description: High MESA & NPR / SOLIDS LOAD OUT

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jared Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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REPORT OF ANALYSIS

Brett Middleton / Brad Kieding
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

July 13, 2011

Date Received : July 06, 2011 ESC Sample # : L524386-01
Description : High MESA & NPR / SOLIDS LOAD OUT Site ID :
Sample ID : NPR-SLO-070511 Project # : SUNNY SIDE
Collected By : Scotty
Collection Date : 07/05/11 09:30

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|---------------|------------|----------|-------------|----------|------|
| Corrosivity | Non-Corrosive | | | 9045D | 07/07/11 | 1 |
| Chromium, Hexavalent | BDL | 2.0 | mg/kg | 3060A/7196A | 07/09/11 | 1 |
| Chromium, Trivalent | 20. | 0.50 | mg/kg | Calc. | 07/08/11 | 1 |
| Ignitability | See Footnote | | Deg. F | D93/1010A | 07/13/11 | 1 |
| ORP | 77. | | mV | 2580 | 07/11/11 | 1 |
| pH | 7.5 | | su | 9045D | 07/07/11 | 1 |
| Paint Filter Test | See Footnote | | % | 9095B | 07/13/11 | 1 |
| Reactive CN (SW846 7.3.3.2) | BDL | 0.125 | mg/kg | 9012B | 07/11/11 | 1 |
| Reactive Sulf. (SW846 7.3.4.1) | 37. | 25. | mg/kg | 9034/9030B | 07/09/11 | 1 |
| Sodium Adsorption Ratio | 20. | | | Calc. | 07/10/11 | 1 |
| Specific Conductance | 3500 | | umhos/cm | 9050AMod | 07/11/11 | 1 |
| Mercury | 5.3 | 0.40 | mg/kg | 7471 | 07/08/11 | 20 |
| Arsenic | BDL | 1.0 | mg/kg | 6010B | 07/08/11 | 1 |
| Barium | 5700 | 1.2 | mg/kg | 6010B | 07/08/11 | 5 |
| Cadmium | BDL | 0.25 | mg/kg | 6010B | 07/08/11 | 1 |
| Chromium | 20. | 0.50 | mg/kg | 6010B | 07/08/11 | 1 |
| Copper | 49. | 1.0 | mg/kg | 6010B | 07/08/11 | 1 |
| Lead | 18. | 0.25 | mg/kg | 6010B | 07/08/11 | 1 |
| Nickel | 9.2 | 1.0 | mg/kg | 6010B | 07/08/11 | 1 |
| Selenium | BDL | 1.0 | mg/kg | 6010B | 07/08/11 | 1 |
| Silver | BDL | 0.50 | mg/kg | 6010B | 07/08/11 | 1 |
| Zinc | 48. | 1.5 | mg/kg | 6010B | 07/08/11 | 1 |
| TPH (GC/FID) Low Fraction | 840 | 100 | mg/kg | 8015D/GRO | 07/06/11 | 1000 |
| Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 95.0 | | % Rec. | 602/8015 | 07/06/11 | 1000 |
| Methanol | 0.36 | 0.10 | mg/kg | 8015M | 07/12/11 | 1 |
| Ethanol | 0.47 | 0.10 | mg/kg | 8015M | 07/12/11 | 1 |
| Volatile Organics | | | | | | |
| Acetone | BDL | 50. | mg/kg | 8260B | 07/06/11 | 1000 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

L524386-01 (SV8270BNA) - Dilution due to matrix

L524386-01 (IGNITABILITY) - Did Not Ignite @ 170 F

L524386-01 (PAINT) - Contains No Free Liquid

L524386-01 (PH) - 7.5@20.6c



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REPORT OF ANALYSIS

Brett Middleton / Brad Kieding
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

July 13, 2011

Date Received : July 06, 2011
Description : High MESA & NPR / SOLIDS LOAD OUT
Sample ID : NPR-SLO-070511
Collected By : Scotty
Collection Date : 07/05/11 09:30

ESC Sample # : L524386-01
Site ID :
Project # : SUNNY SIDE

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|-------|--------|----------|------|
| Acrylonitrile | BDL | 10. | mg/kg | 8260B | 07/06/11 | 1000 |
| Benzene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Bromobenzene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Bromodichloromethane | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Bromoform | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Bromomethane | BDL | 5.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| n-Butylbenzene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| sec-Butylbenzene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| tert-Butylbenzene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Carbon tetrachloride | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Chlorobenzene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Chlorodibromomethane | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Chloroethane | BDL | 5.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 2-Chloroethyl vinyl ether | BDL | 50. | mg/kg | 8260B | 07/06/11 | 1000 |
| Chloroform | BDL | 5.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Chloromethane | BDL | 2.5 | mg/kg | 8260B | 07/06/11 | 1000 |
| 2-Chlorotoluene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 4-Chlorotoluene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,2-Dibromo-3-Chloropropane | BDL | 5.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,2-Dibromoethane | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Dibromomethane | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,2-Dichlorobenzene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,3-Dichlorobenzene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,4-Dichlorobenzene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Dichlorodifluoromethane | BDL | 5.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,1-Dichloroethane | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,2-Dichloroethane | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,1-Dichloroethene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| cis-1,2-Dichloroethene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| trans-1,2-Dichloroethene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,2-Dichloropropane | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,1-Dichloropropene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,3-Dichloropropene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| cis-1,3-Dichloropropene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| trans-1,3-Dichloropropene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 2,2-Dichloropropane | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Di-isopropyl ether | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Ethylbenzene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Hexachloro-1,3-butadiene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| n-Hexane | BDL | 10. | mg/kg | 8260B | 07/06/11 | 1000 |
| Isopropylbenzene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| p-Isopropyltoluene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 2-Butanone (MEK) | BDL | 10. | mg/kg | 8260B | 07/06/11 | 1000 |
| Methylene Chloride | BDL | 5.0 | mg/kg | 8260B | 07/06/11 | 1000 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

L524386-01 (SV8270BNA) - Dilution due to matrix

L524386-01 (IGNITABILITY) - Did Not Ignite @ 170 F

L524386-01 (PAINT) - Contains No Free Liquid

L524386-01 (PH) - 7.5@20.6c



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REPORT OF ANALYSIS

Brett Middleton / Brad Kieding
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

July 13, 2011

Date Received : July 06, 2011
Description : High MESA & NPR / SOLIDS LOAD OUT
Sample ID : NPR-SLO-070511
Collected By : Scotty
Collection Date : 07/05/11 09:30

ESC Sample # : L524386-01

Site ID :

Project # : SUNNY SIDE

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|----------|----------|------|
| 4-Methyl-2-pentanone (MIBK) | BDL | 10. | mg/kg | 8260B | 07/06/11 | 1000 |
| Methyl tert-butyl ether | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Naphthalene | BDL | 5.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| n-Propylbenzene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Styrene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,1,1,2-Tetrachloroethane | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,1,2,2-Tetrachloroethane | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Tetrachloroethene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Toluene | BDL | 5.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,2,3-Trichlorobenzene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,2,4-Trichlorobenzene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,1,1-Trichloroethane | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,1,2-Trichloroethane | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Trichloroethylene | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Trichlorofluoromethane | BDL | 5.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,2,3-Trichloropropane | BDL | 2.5 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,2,4-Trimethylbenzene | 6.8 | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| 1,3,5-Trimethylbenzene | 22. | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Vinyl chloride | BDL | 1.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Xylenes, Total | 13. | 3.0 | mg/kg | 8260B | 07/06/11 | 1000 |
| Surrogate Recovery | | | | | | |
| Toluene-d8 | 96.7 | | % Rec. | 8260B | 07/06/11 | 1000 |
| Dibromofluoromethane | 87.7 | | % Rec. | 8260B | 07/06/11 | 1000 |
| a,a,a-Trifluorotoluene | 115. | | % Rec. | 8260B | 07/06/11 | 1000 |
| 4-Bromofluorobenzene | 119. | | % Rec. | 8260B | 07/06/11 | 1000 |
| TPH (GC/FID) High Fraction | 6500 | 80. | mg/kg | 3546/DRO | 07/12/11 | 20 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 0.00 | | % Rec. | 3546/DRO | 07/12/11 | 20 |
| Base/Neutral Extractables | | | | | | |
| Acenaphthene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Acenaphthylene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Anthracene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Benzidine | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Benzo(a)anthracene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Benzo(b)fluoranthene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Benzo(k)fluoranthene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Benzo(g,h,i)perylene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Benzo(a)pyrene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Bis(2-chlorethoxy)methane | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Bis(2-chloroethyl)ether | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Bis(2-chloroisopropyl)ether | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 4-Bromophenyl-phenylether | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

L524386-01 (SV8270BNA) - Dilution due to matrix

L524386-01 (IGNITABILITY) - Did Not Ignite @ 170 F

L524386-01 (PAINT) - Contains No Free Liquid

L524386-01 (PH) - 7.5@20.6c



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Middleton / Brad Kieding
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

July 13, 2011

Date Received : July 06, 2011 ESC Sample # : L524386-01
Description : High MESA & NPR / SOLIDS LOAD OUT Site ID :
Sample ID : NPR-SLO-070511 Project # : SUNNY SIDE
Collected By : Scotty
Collection Date : 07/05/11 09:30

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|----------------------------|--------|------------|--------|--------|----------|------|
| 2-Chloronaphthalene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| 4-Chlorophenyl-phenylether | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Chrysene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Dibenz(a,h)anthracene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| 3,3-Dichlorobenzidine | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2,4-Dinitrotoluene | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2,6-Dinitrotoluene | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Fluoranthene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Fluorene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Hexachlorobenzene | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Hexachloro-1,3-butadiene | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Hexachlorocyclopentadiene | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Hexachloroethane | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Indeno(1,2,3-cd)pyrene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Isophorone | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Naphthalene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Nitrobenzene | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| n-Nitrosodimethylamine | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| n-Nitrosodiphenylamine | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| n-Nitrosodi-n-propylamine | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Phenanthrone | 2.1 | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Benzylbutyl phthalate | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Bis(2-ethylhexyl)phthalate | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Di-n-butyl phthalate | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Diethyl phthalate | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Dimethyl phthalate | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Di-n-octyl phthalate | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Pyrene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| 1,2,4-Trichlorobenzene | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Acid Extractables | | | | | | |
| 4-Chloro-3-methylphenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2-Chlorophenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2,4-Dichlorophenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2,4-Dimethylphenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 4,6-Dinitro-2-methylphenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2,4-Dinitrophenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2-Nitrophenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 4-Nitrophenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Pentachlorophenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Phenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2,4,6-Trichlorophenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Surrogate Recovery | | | | | | |
| 2-Fluorophenol | 0.00 | | % Rec. | 8270C | 07/11/11 | 50 |
| Phenol-d5 | 0.00 | | % Rec. | 8270C | 07/11/11 | 50 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

L524386-01 (SV8270BNA) - Dilution due to matrix

L524386-01 (IGNITABILITY) - Did Not Ignite @ 170 F

L524386-01 (PAINT) - Contains No Free Liquid

L524386-01 (PH) - 7.5@20.6c



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Est. 1970

REPORT OF ANALYSIS

Brett Middleton / Brad Kieding
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

July 13, 2011

Date Received : July 06, 2011
Description : High MESA & NPR / SOLIDS LOAD OUT
Sample ID : NPR-SLO-070511
Collected By : Scotty
Collection Date : 07/05/11 09:30

ESC Sample # : L524386-01
Site ID :
Project # : SUNNY SIDE

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|----------------------|--------|------------|--------|--------|----------|------|
| Nitrobenzene-d5 | 0.00 | | % Rec. | 8270C | 07/11/11 | 50 |
| 2-Fluorobiphenyl | 0.00 | | % Rec. | 8270C | 07/11/11 | 50 |
| 2,4,6-Tribromophenol | 0.00 | | % Rec. | 8270C | 07/11/11 | 50 |
| p-Terphenyl-d14 | 0.00 | | % Rec. | 8270C | 07/11/11 | 50 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 07/13/11 16:47 Printed: 07/13/11 17:09

L524386-01 (SV8270BNA) - Dilution due to matrix

L524386-01 (IGNITABILITY) - Did Not Ignite @ 170 F

L524386-01 (PAINT) - Contains No Free Liquid

L524386-01 (PH) - 7.5@20.6c



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REPORT OF ANALYSIS

Brett Middleton / Brad Kieding
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

July 13, 2011

Date Received : July 06, 2011 ESC Sample # : L524386-02
Description : High MESA & NPR / SOLIDS LOAD OUT Site ID :
Sample ID : HM-SLO-070511 Project # : SUNNY SIDE
Collected By : Scotty
Collection Date : 07/05/11 10:30

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|---|--------------|------------|----------|-------------|----------|------|
| Corrosivity | Corrosive | | | 9045D | 07/07/11 | 1 |
| Chromium, Hexavalent | BDL | 2.0 | mg/kg | 3060A/7196A | 07/09/11 | 1 |
| Chromium, Trivalent | 26. | 0.50 | mg/kg | Calc. | 07/08/11 | 1 |
| Ignitability | See Footnote | | Deg. F | D93/1010A | 07/13/11 | 1 |
| ORP | 63. | | mV | 2580 | 07/11/11 | 1 |
| pH | 12. | | su | 9045D | 07/07/11 | 1 |
| Paint Filter Test | See Footnote | | % | 9095B | 07/13/11 | 1 |
| Reactive CN (SW846 7.3.3.2) | BDL | 0.125 | mg/kg | 9012B | 07/11/11 | 1 |
| Reactive Sulf. (SW846 7.3.4.1) | 42. | 25. | mg/kg | 9034/9030B | 07/09/11 | 1 |
| Sodium Adsorption Ratio | 15. | | | Calc. | 07/10/11 | 1 |
| Specific Conductance | 5600 | | umhos/cm | 9050AMod | 07/11/11 | 1 |
| Mercury | 0.042 | 0.020 | mg/kg | 7471 | 07/08/11 | 1 |
| Arsenic | BDL | 1.0 | mg/kg | 6010B | 07/08/11 | 1 |
| Barium | 5500 | 1.2 | mg/kg | 6010B | 07/08/11 | 5 |
| Cadmium | BDL | 1.2 | mg/kg | 6010B | 07/08/11 | 5 |
| Chromium | 26. | 0.50 | mg/kg | 6010B | 07/08/11 | 1 |
| Copper | 60. | 1.0 | mg/kg | 6010B | 07/08/11 | 1 |
| Lead | 10. | 0.25 | mg/kg | 6010B | 07/08/11 | 1 |
| Nickel | 3.7 | 1.0 | mg/kg | 6010B | 07/08/11 | 1 |
| Selenium | BDL | 1.0 | mg/kg | 6010B | 07/08/11 | 1 |
| Silver | BDL | 0.50 | mg/kg | 6010B | 07/08/11 | 1 |
| Zinc | 38. | 1.5 | mg/kg | 6010B | 07/08/11 | 1 |
| TPH (GC/FID) Low Fraction Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 17. | 5.0 | mg/kg | 8015D/GRO | 07/08/11 | 50 |
| | 93.5 | | % Rec. | 602/8015 | 07/08/11 | 50 |
| Methanol | 0.82 | 0.50 | mg/kg | 8015M | 07/12/11 | 5 |
| Ethanol | 0.85 | 0.50 | mg/kg | 8015M | 07/12/11 | 5 |
| Volatile Organics | | | | | | |
| Acetone | BDL | 2.5 | mg/kg | 8260B | 07/07/11 | 50 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

L524386-02 (SV8270BNA) - Dilution due to matrix

L524386-02 (PAINT) - Contains No Free Liquid

L524386-02 (IGNITABILITY) - Did Not Ignite @ 170 F

L524386-02 (PH) - 12@20.5c



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Est. 1970

REPORT OF ANALYSIS

Brett Middleton / Brad Kieding
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

July 13, 2011

Date Received : July 06, 2011
Description : High MESA & NPR / SOLIDS LOAD OUT
Sample ID : HM-SLO-070511
Collected By : Scotty
Collection Date : 07/05/11 10:30

ESC Sample # : L524386-02

Site ID :

Project # : SUNNY SIDE

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|-------|--------|----------|------|
| Acrylonitrile | BDL | 0.50 | mg/kg | 8260B | 07/07/11 | 50 |
| Benzene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Bromobenzene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Bromodichloromethane | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Bromoform | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Bromomethane | BDL | 0.25 | mg/kg | 8260B | 07/07/11 | 50 |
| n-Butylbenzene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| sec-Butylbenzene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| tert-Butylbenzene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Carbon tetrachloride | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Chlorobenzene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Chlorodibromomethane | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Chloroethane | BDL | 0.25 | mg/kg | 8260B | 07/07/11 | 50 |
| 2-Chloroethyl vinyl ether | BDL | 2.5 | mg/kg | 8260B | 07/07/11 | 50 |
| Chloroform | BDL | 0.25 | mg/kg | 8260B | 07/07/11 | 50 |
| Chloromethane | BDL | 0.12 | mg/kg | 8260B | 07/07/11 | 50 |
| 2-Chlorotoluene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 4-Chlorotoluene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,2-Dibromo-3-Chloropropane | BDL | 0.25 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,2-Dibromoethane | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Dibromomethane | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,2-Dichlorobenzene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,3-Dichlorobenzene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,4-Dichlorobenzene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Dichlorodifluoromethane | BDL | 0.25 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,1-Dichloroethane | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,2-Dichloroethane | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,1-Dichloroethene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| cis-1,2-Dichloroethene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| trans-1,2-Dichloroethene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,2-Dichloropropane | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,1-Dichloropropene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,3-Dichloropropane | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| cis-1,3-Dichloropropene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| trans-1,3-Dichloropropene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 2,2-Dichloropropane | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Di-isopropyl ether | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Ethylbenzene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Hexachloro-1,3-butadiene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| n-Hexane | BDL | 0.50 | mg/kg | 8260B | 07/07/11 | 50 |
| Isopropylbenzene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| p-Isopropyltoluene | 0.11 | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 2-Butanone (MEK) | BDL | 0.50 | mg/kg | 8260B | 07/07/11 | 50 |
| Methylene Chloride | BDL | 0.25 | mg/kg | 8260B | 07/07/11 | 50 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

L524386-02 (SV8270BNA) - Dilution due to matrix

L524386-02 (PAINT) - Contains No Free Liquid

L524386-02 (IGNITABILITY) - Did Not Ignite @ 170 F

L524386-02 (PH) - 12@20.5c



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REPORT OF ANALYSIS

Brett Middleton / Brad Kieding
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

July 13, 2011

Date Received : July 06, 2011
Description : High MESA & NPR / SOLIDS LOAD OUT
Sample ID : HM-SLO-070511
Collected By : Scotty
Collection Date : 07/05/11 10:30

ESC Sample # : L524386-02

Site ID :

Project # : SUNNY SIDE

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|----------|----------|------|
| 4-Methyl-2-pentanone (MIBK) | BDL | 0.50 | mg/kg | 8260B | 07/07/11 | 50 |
| Methyl tert-butyl ether | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Naphthalene | BDL | 0.25 | mg/kg | 8260B | 07/07/11 | 50 |
| n-Propylbenzene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Styrene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,1,1,2-Tetrachloroethane | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,1,2,2-Tetrachloroethane | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Tetrachloroethene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Toluene | BDL | 0.25 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,2,3-Trichlorobenzene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,2,4-Trichlorobenzene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,1,1-Trichloroethane | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,1,2-Trichloroethane | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Trichloroethylene | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Trichlorofluoromethane | BDL | 0.25 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,2,3-Trichloropropane | BDL | 0.12 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,2,4-Trimethylbenzene | 0.14 | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| 1,3,5-Trimethylbenzene | 1.2 | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Vinyl chloride | BDL | 0.050 | mg/kg | 8260B | 07/07/11 | 50 |
| Xylenes, Total | BDL | 0.15 | mg/kg | 8260B | 07/07/11 | 50 |
| Surrogate Recovery | | | | | | |
| Toluene-d8 | 102. | | % Rec. | 8260B | 07/07/11 | 50 |
| Dibromofluoromethane | 93.9 | | % Rec. | 8260B | 07/07/11 | 50 |
| a,a,a-Trifluorotoluene | 108. | | % Rec. | 8260B | 07/07/11 | 50 |
| 4-Bromofluorobenzene | 116. | | % Rec. | 8260B | 07/07/11 | 50 |
| TPH (GC/FID) High Fraction | 5900 | 200 | mg/kg | 3546/DRO | 07/12/11 | 50 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 0.00 | | % Rec. | 3546/DRO | 07/12/11 | 50 |
| Base/Neutral Extractables | | | | | | |
| Acenaphthene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Acenaphthylene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Anthracene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Benzidine | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Benzo(a)anthracene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Benzo(b)fluoranthene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Benzo(k)fluoranthene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Benzo(g,h,i)perylene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Benzo(a)pyrene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Bis(2-chlorethoxy)methane | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Bis(2-chloroethyl)ether | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Bis(2-chloroisopropyl)ether | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 4-Bromophenyl-phenylether | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

L524386-02 (SV8270BNA) - Dilution due to matrix

L524386-02 (PAINT) - Contains No Free Liquid

L524386-02 (IGNITABILITY) - Did Not Ignite @ 170 F

L524386-02 (PH) - 12@20.5c



YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Middleton / Brad Kieding
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

July 13, 2011

Date Received : July 06, 2011
Description : High MESA & NPR / SOLIDS LOAD OUT
Sample ID : HM-SLO-070511
Collected By : Scotty
Collection Date : 07/05/11 10:30

ESC Sample # : L524386-02

Site ID :

Project # : SUNNY SIDE

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|----------------------------|--------|------------|--------|--------|----------|------|
| 2-Chloronaphthalene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| 4-Chlorophenyl-phenylether | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Chrysene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Dibenz(a,h)anthracene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| 3,3-Dichlorobenzidine | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2,4-Dinitrotoluene | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2,6-Dinitrotoluene | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Fluoranthene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Fluorene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Hexachlorobenzene | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Hexachloro-1,3-butadiene | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Hexachlorocyclopentadiene | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Hexachloroethane | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Indeno(1,2,3-cd)pyrene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Isophorone | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Naphthalene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Nitrobenzene | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| n-Nitrosodimethylamine | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| n-Nitrosodiphenylamine | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| n-Nitrosodi-n-propylamine | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Phenanthrone | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| Benzylbutyl phthalate | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Bis(2-ethylhexyl)phthalate | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Di-n-butyl phthalate | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Diethyl phthalate | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Dimethyl phthalate | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Di-n-octyl phthalate | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Pyrene | BDL | 1.6 | mg/kg | 8270C | 07/11/11 | 50 |
| 1,2,4-Trichlorobenzene | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Acid Extractables | | | | | | |
| 4-Chloro-3-methylphenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2-Chlorophenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2,4-Dichlorophenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2,4-Dimethylphenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 4,6-Dinitro-2-methylphenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2,4-Dinitrophenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2-Nitrophenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 4-Nitrophenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Pentachlorophenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Phenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| 2,4,6-Trichlorophenol | BDL | 17. | mg/kg | 8270C | 07/11/11 | 50 |
| Surrogate Recovery | | | | | | |
| 2-Fluorophenol | 0.00 | | % Rec. | 8270C | 07/11/11 | 50 |
| Phenol-d5 | 0.00 | | % Rec. | 8270C | 07/11/11 | 50 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

L524386-02 (SV8270BNA) - Dilution due to matrix

L524386-02 (PAINT) - Contains No Free Liquid

L524386-02 (IGNITABILITY) - Did Not Ignite @ 170 F

L524386-02 (PH) - 12@20.5c



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Est. 1970

REPORT OF ANALYSIS

Brett Middleton / Brad Kieding
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

July 13, 2011

Date Received : July 06, 2011
Description : High MESA & NPR / SOLIDS LOAD OUT
Sample ID : HM-SLO-070511
Collected By : Scotty
Collection Date : 07/05/11 10:30

ESC Sample # : L524386-02
Site ID :
Project # : SUNNY SIDE

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|----------------------|--------|------------|--------|--------|----------|------|
| Nitrobenzene-d5 | 0.00 | | % Rec. | 8270C | 07/11/11 | 50 |
| 2-Fluorobiphenyl | 0.00 | | % Rec. | 8270C | 07/11/11 | 50 |
| 2,4,6-Tribromophenol | 0.00 | | % Rec. | 8270C | 07/11/11 | 50 |
| p-Terphenyl-d14 | 0.00 | | % Rec. | 8270C | 07/11/11 | 50 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 07/13/11 16:47 Printed: 07/13/11 17:09

L524386-02 (SV8270BNA) - Dilution due to matrix

L524386-02 (PAINT) - Contains No Free Liquid

L524386-02 (IGNITABILITY) - Did Not Ignite @ 170 F

L524386-02 (PH) - 12@20.5c



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REPORT OF ANALYSIS

Brett Middleton / Brad Kieding
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

July 13, 2011

Date Received : July 06, 2011
Description : High MESA & NPR / SOLIDS LOAD OUT
Sample ID : NPR-SLO-070511
Collected By : Scotty
Collection Date : 07/05/11 09:30

ESC Sample # : L524386-03
Site ID :
Project : SUNNY SIDE

| Parameter | Result | Det. | Limit | Units | Limit | Method | Date/Time | By | Dil |
|-----------------|--------|--------|-------|-------|-------|---------------|---------------|-----|-----|
| TCLP Extraction | - | | | | 1311 | | 07/08/11 0754 | MVE | 1 |
| Mercury | BDL | 0.0010 | mg/l | 0.20 | 7470A | | 07/09/11 0918 | MDC | 1 |
| Arsenic | BDL | 0.050 | mg/l | 5.0 | 6010B | 07/08/11 1638 | ARF | 1 | |
| Barium | 2.6 | 0.15 | mg/l | 100 | 6010B | 07/08/11 1638 | ARF | 1 | |
| Cadmium | BDL | 0.050 | mg/l | 1.0 | 6010B | 07/08/11 1638 | ARF | 1 | |
| Chromium | BDL | 0.050 | mg/l | 5.0 | 6010B | 07/08/11 1638 | ARF | 1 | |
| Lead | BDL | 0.050 | mg/l | 5.0 | 6010B | 07/08/11 1638 | ARF | 1 | |
| Selenium | BDL | 0.050 | mg/l | 1.0 | 6010B | 07/08/11 1638 | ARF | 1 | |
| Silver | BDL | 0.050 | mg/l | 5.0 | 6010B | 07/08/11 1638 | ARF | 1 | |

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 07/13/11 16:47 Printed: 07/13/11 17:09



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Est. 1970

REPORT OF ANALYSIS

Brett Middleton / Brad Kieding
Encana
2717 Co. Rd. 215, Ste 100
Parachute, CO 81635

July 13, 2011

Date Received : July 06, 2011
Description : High MESA & NPR / SOLIDS LOAD OUT
Sample ID : HM-SLO-070511
Collected By : Scotty
Collection Date : 07/05/11 10:30

ESC Sample # : L524386-04
Site ID :
Project : SUNNY SIDE

| Parameter | Result | Det. | Limit | Units | Limit | Method | Date/Time | By | Dil |
|-----------------|--------|--------|-------|-------|-------|---------------|---------------|-----|-----|
| TCLP Extraction | - | | | | 1311 | | 07/08/11 0754 | MVE | 1 |
| Mercury | BDL | 0.0010 | mg/l | 0.20 | 7470A | | 07/09/11 0929 | MDC | 1 |
| Arsenic | BDL | 0.050 | mg/l | 5.0 | 6010B | 07/08/11 1641 | ARF | 1 | |
| Barium | 0.58 | 0.15 | mg/l | 100 | 6010B | 07/08/11 1641 | ARF | 1 | |
| Cadmium | BDL | 0.050 | mg/l | 1.0 | 6010B | 07/08/11 1641 | ARF | 1 | |
| Chromium | BDL | 0.050 | mg/l | 5.0 | 6010B | 07/08/11 1641 | ARF | 1 | |
| Lead | BDL | 0.050 | mg/l | 5.0 | 6010B | 07/08/11 1641 | ARF | 1 | |
| Selenium | BDL | 0.050 | mg/l | 1.0 | 6010B | 07/08/11 1641 | ARF | 1 | |
| Silver | BDL | 0.050 | mg/l | 5.0 | 6010B | 07/08/11 1641 | ARF | 1 | |

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 07/13/11 16:47 Printed: 07/13/11 17:09

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|---------------|------------|-------------|-------------------------------|----------|-----------|
| L524386-01 | WG544706 | SAMP | Benzidine | R1755451 | J3 |
| | WG544706 | SAMP | Phenol | R1755451 | J4 |
| | WG544706 | SAMP | 2-Fluorophenol | R1755451 | J7 |
| | WG544706 | SAMP | Phenol-d5 | R1755451 | J7 |
| | WG544706 | SAMP | Nitrobenzene-d5 | R1755451 | J7 |
| | WG544706 | SAMP | 2-Fluorobiphenyl | R1755451 | J7 |
| | WG544706 | SAMP | 2,4,6-Tribromophenol | R1755451 | J7 |
| | WG544706 | SAMP | p-Terphenyl-d14 | R1755451 | J7 |
| | WG544761 | SAMP | Reactive Sulf.(SW846 7.3.4.1) | R1754990 | P1 |
| | WG544419 | SAMP | o-Terphenyl | R1757050 | J7 |
| | WG544706 | SAMP | Acenaphthene | R1755451 | O |
| | WG544706 | SAMP | Acenaphthylene | R1755451 | O |
| | WG544706 | SAMP | Anthracene | R1755451 | O |
| | WG544706 | SAMP | Benzidine | R1755451 | J30 |
| | WG544706 | SAMP | Benzo(a)anthracene | R1755451 | O |
| | WG544706 | SAMP | Benzo(b)fluoranthene | R1755451 | O |
| | WG544706 | SAMP | Benzo(k)fluoranthene | R1755451 | O |
| | WG544706 | SAMP | Benzo(g,h,i)perylene | R1755451 | O |
| | WG544706 | SAMP | Benzo(a)pyrene | R1755451 | O |
| | WG544706 | SAMP | Bis(2-chlorethoxy)methane | R1755451 | O |
| | WG544706 | SAMP | Bis(2-chloroethyl)ether | R1755451 | O |
| | WG544706 | SAMP | Bis(2-chloroisopropyl)ether | R1755451 | O |
| | WG544706 | SAMP | 4-Bromophenyl-phenylether | R1755451 | O |
| | WG544706 | SAMP | 2-Chloronaphthalene | R1755451 | O |
| | WG544706 | SAMP | 4-Chlorophenyl-phenylether | R1755451 | O |
| | WG544706 | SAMP | Chrysene | R1755451 | O |
| | WG544706 | SAMP | Dibenz(a,h)anthracene | R1755451 | O |
| | WG544706 | SAMP | 3,3-Dichlorobenzidine | R1755451 | O |
| | WG544706 | SAMP | 2,4-Dinitrotoluene | R1755451 | O |
| | WG544706 | SAMP | 2,6-Dinitrotoluene | R1755451 | O |
| | WG544706 | SAMP | Fluoranthene | R1755451 | O |
| | WG544706 | SAMP | Fluorene | R1755451 | O |
| | WG544706 | SAMP | Hexachlorobenzene | R1755451 | O |
| | WG544706 | SAMP | Hexachloro-1,3-butadiene | R1755451 | O |
| | WG544706 | SAMP | Hexachlorocyclopentadiene | R1755451 | O |
| | WG544706 | SAMP | Hexachloroethane | R1755451 | O |
| | WG544706 | SAMP | Indeno(1,2,3-cd)pyrene | R1755451 | O |
| | WG544706 | SAMP | Isophorone | R1755451 | O |
| | WG544706 | SAMP | Naphthalene | R1755451 | O |
| | WG544706 | SAMP | Nitrobenzene | R1755451 | O |
| | WG544706 | SAMP | n-Nitrosodimethylamine | R1755451 | O |
| | WG544706 | SAMP | n-Nitrosodiphenylamine | R1755451 | O |
| | WG544706 | SAMP | n-Nitrosodi-n-propylamine | R1755451 | O |
| | WG544706 | SAMP | Phenanthrene | R1755451 | O |
| | WG544706 | SAMP | Benzylbutyl phthalate | R1755451 | O |
| | WG544706 | SAMP | Bis(2-ethylhexyl)phthalate | R1755451 | O |
| | WG544706 | SAMP | Di-n-butyl phthalate | R1755451 | O |
| | WG544706 | SAMP | Diethyl phthalate | R1755451 | O |
| | WG544706 | SAMP | Dimethyl phthalate | R1755451 | O |
| | WG544706 | SAMP | Di-n-octyl phthalate | R1755451 | O |
| | WG544706 | SAMP | Pyrene | R1755451 | O |
| | WG544706 | SAMP | 1,2,4-Trichlorobenzene | R1755451 | O |
| | WG544706 | SAMP | 4-Chloro-3-methylphenol | R1755451 | O |
| | WG544706 | SAMP | 2-Chlorophenol | R1755451 | O |
| | WG544706 | SAMP | 2,4-Dichlorophenol | R1755451 | O |
| | WG544706 | SAMP | 2,4-Dimethylphenol | R1755451 | O |
| | WG544706 | SAMP | 4,6-Dinitro-2-methylphenol | R1755451 | O |
| | WG544706 | SAMP | 2,4-Dinitrophenol | R1755451 | O |
| | WG544706 | SAMP | 2-Nitrophenol | R1755451 | O |
| | WG544706 | SAMP | 4-Nitrophenol | R1755451 | O |
| | WG544706 | SAMP | Pentachlorophenol | R1755451 | O |
| | WG544706 | SAMP | Phenol | R1755451 | J40 |
| | WG544706 | SAMP | 2,4,6-Trichlorophenol | R1755451 | O |
| | WG544706 | SAMP | 2-Fluorophenol | R1755451 | J7 |
| | WG544706 | SAMP | Phenol-d5 | R1755451 | J7 |
| | WG544706 | SAMP | Nitrobenzene-d5 | R1755451 | J7 |
| | WG544706 | SAMP | 2-Fluorobiphenyl | R1755451 | J7 |
| | WG544706 | SAMP | 2,4,6-Tribromophenol | R1755451 | J7 |
| | WG544706 | SAMP | p-Terphenyl-d14 | R1755451 | J7 |

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|---------------|------------|-------------|---------|----------|-----------|
| WG544349 | SAMP | Cadmium | | R1753949 | O |
| WG544419 | SAMP | o-Terphenyl | | R1757050 | J7 |

Attachment B
Explanation of QC Qualifier Codes

| Qualifier | Meaning |
|-----------|--|
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J7 | Surrogate recovery limits cannot be evaluated; surrogates were diluted out |
| O | (ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution. |
| P1 | RPD value not applicable for sample concentrations less than 5 times the reporting limit. |

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
07/13/11 at 17:09:36

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L524386-01 Account: ENCRCO Received: 07/06/11 09:00 Due Date: 07/13/11 00:00 RPT Date: 07/13/11 16:47

Sample: L524386-02 Account: ENCRCO Received: 07/06/11 09:00 Due Date: 07/13/11 00:00 RPT Date: 07/13/11 16:47

Sample: L524386-03 Account: ENCRCO Received: 07/06/11 09:00 Due Date: 07/13/11 00:00 RPT Date: 07/13/11 16:47
moved TCLP from -01

Sample: L524386-04 Account: ENCRCO Received: 07/06/11 09:00 Due Date: 07/13/11 00:00 RPT Date: 07/13/11 16:47
moved TCLP from -02



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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

L524386

July 13, 2011

| Analyte | Result | Laboratory Blank Units | % Rec | Limit | Batch | Date Analyzed |
|-----------------------------|---------|---------------------------|-------|-------|----------|----------------|
| 1,1,1,2-Tetrachloroethane | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,1,1-Trichloroethane | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,1,2,2-Tetrachloroethane | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,1,2-Trichloroethane | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,1-Dichloroethane | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,1-Dichloroethene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,1-Dichloropropene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,2,3-Trichlorobenzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,2,3-Trichloropropane | < .0025 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,2,4-Trichlorobenzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,2,4-Trimethylbenzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,2-Dibromo-3-Chloropropane | < .005 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,2-Dibromoethane | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,2-Dichlorobenzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,2-Dichloroethane | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,2-Dichloropropane | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,3,5-Trimethylbenzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,3-Dichlorobenzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,3-Dichloropropane | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 1,4-Dichlorobenzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 2,2-Dichloropropane | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 2-Butanone (MEK) | < .01 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 2-Chloroethyl vinyl ether | < .05 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 2-Chlorotoluene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 4-Chlorotoluene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 4-Methyl-2-pentanone (MIBK) | < .01 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Acetone | < .05 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Acrylonitrile | < .01 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Benzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Bromobenzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Bromodichloromethane | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Bromoform | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Bromomethane | < .005 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Carbon tetrachloride | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Chlorobenzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Chlorodibromomethane | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Chloroethane | < .005 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Chloroform | < .005 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Chloromethane | < .0025 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| cis-1,2-Dichloroethene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| cis-1,3-Dichloropropene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Di-isopropyl ether | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Dibromomethane | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Dichlorodifluoromethane | < .005 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Ethylbenzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Hexachloro-1,3-butadiene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Isopropylbenzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Methyl tert-butyl ether | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Methylene Chloride | < .005 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| n-Butylbenzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| n-Hexane | < .01 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| n-Propylbenzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Naphthalene | < .005 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| p-Isopropyltoluene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| sec-Butylbenzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Styrene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| tert-Butylbenzene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Tetrachloroethene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Toluene | < .005 | mg/kg | | | WG544259 | 07/06/11 11:14 |

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Est. 1970

Quality Assurance Report
Level II

L524386

July 13, 2011

| Analyte | Result | Laboratory Blank Units | % Rec | Limit | Batch | Date Analyzed |
|-----------------------------|---------|---------------------------|-------|--------|----------|----------------|
| trans-1,2-Dichloroethene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| trans-1,3-Dichloropropene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Trichloroethene | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Trichlorofluoromethane | < .005 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Vinyl chloride | < .001 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| Xylenes, Total | < .003 | mg/kg | | | WG544259 | 07/06/11 11:14 |
| 4-Bromofluorobenzene | % Rec. | 102.1 | | 59-140 | WG544259 | 07/06/11 11:14 |
| Dibromofluoromethane | % Rec. | 111.0 | | 63-139 | WG544259 | 07/06/11 11:14 |
| Toluene-d8 | % Rec. | 101.3 | | 84-116 | WG544259 | 07/06/11 11:14 |
| a,a,a-Trifluorotoluene | % Rec. | 105.6 | | 80-118 | WG544259 | 07/06/11 11:14 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG544284 | 07/06/11 12:56 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 95.67 | 59-128 | WG544284 | 07/06/11 12:56 |
| Corrosivity | 4.10 | | | | WG544373 | 07/07/11 18:15 |
| pH | 3.90 | su | | | WG544378 | 07/07/11 17:38 |
| 1,1,1,2-Tetrachloroethane | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,1,1-Trichloroethane | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,1,2,2-Tetrachloroethane | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,1,2-Trichloroethane | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,1-Dichloroethane | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,1-Dichloroethene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,1-Dichloropropene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,2,3-Trichlorobenzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,2,3-Trichloropropane | < .0025 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,2,4-Trichlorobenzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,2,4-Trimethylbenzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,2-Dibromo-3-Chloropropane | < .005 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,2-Dibromoethane | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,2-Dichlorobenzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,2-Dichloroethane | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,2-Dichloropropane | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,3,5-Trimethylbenzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,3-Dichlorobenzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,3-Dichloropropane | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 1,4-Dichlorobenzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 2,2-Dichloropropane | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 2-Butanone (MEK) | < .01 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 2-Chloroethyl vinyl ether | < .05 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 2-Chlorotoluene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 4-Chlorotoluene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 4-Methyl-2-pentanone (MIBK) | < .01 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Acetone | < .05 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Acrylonitrile | < .01 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Benzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Bromobenzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Bromodichloromethane | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Bromoform | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Bromomethane | < .005 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Carbon tetrachloride | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Chlorobenzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Chlorodibromomethane | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Chloroethane | < .005 | mg/kg | | | WG544601 | 07/07/11 21:59 |

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| Analyte | Result | Laboratory Blank Units | % Rec | Limit | Batch | Date Analyzed |
|-----------------------------|---------|---------------------------|-------|--------|----------|----------------|
| Chloroform | < .005 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Chloromethane | < .0025 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| cis-1,2-Dichloroethene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| cis-1,3-Dichloropropene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Di-isopropyl ether | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Dibromomethane | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Dichlorodifluoromethane | < .005 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Ethylbenzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Hexachloro-1,3-butadiene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Isopropylbenzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Methyl tert-butyl ether | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Methylene Chloride | < .005 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| n-Butylbenzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| n-Hexane | < .01 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| n-Propylbenzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Naphthalene | < .005 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| p-Isopropyltoluene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| sec-Butylbenzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Styrene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| tert-Butylbenzene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Tetrachloroethene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Toluene | < .005 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| trans-1,2-Dichloroethene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| trans-1,3-Dichloropropene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Trichloroethene | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Trichlorofluoromethane | < .005 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Vinyl chloride | < .001 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| Xylenes, Total | < .003 | mg/kg | | | WG544601 | 07/07/11 21:59 |
| 4-Bromofluorobenzene | | % Rec. | 105.9 | 59-140 | WG544601 | 07/07/11 21:59 |
| Dibromofluoromethane | | % Rec. | 95.29 | 63-139 | WG544601 | 07/07/11 21:59 |
| Toluene-d8 | | % Rec. | 99.97 | 84-116 | WG544601 | 07/07/11 21:59 |
| a,a,a-Trifluorotoluene | | % Rec. | 105.9 | 80-118 | WG544601 | 07/07/11 21:59 |
| Mercury | < .02 | mg/kg | | | WG544187 | 07/08/11 11:29 |
| Chromium, Hexavalent | < 2 | mg/kg | | | WG544563 | 07/09/11 15:38 |
| Mercury | < .0002 | mg/l | | | WG544656 | 07/09/11 08:55 |
| Arsenic | < .05 | mg/l | | | WG544657 | 07/08/11 15:26 |
| Barium | < .15 | mg/l | | | WG544657 | 07/08/11 15:26 |
| Cadmium | < .05 | mg/l | | | WG544657 | 07/08/11 15:26 |
| Chromium | < .05 | mg/l | | | WG544657 | 07/08/11 15:26 |
| Lead | < .05 | mg/l | | | WG544657 | 07/08/11 15:26 |
| Selenium | < .05 | mg/l | | | WG544657 | 07/08/11 15:26 |
| Silver | < .05 | mg/l | | | WG544657 | 07/08/11 15:26 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG544629 | 07/08/11 15:59 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 92.04 | 59-128 | WG544629 | 07/08/11 15:59 |
| Arsenic | < 1 | mg/kg | | | WG544349 | 07/08/11 23:57 |
| Barium | < .25 | mg/kg | | | WG544349 | 07/08/11 23:57 |
| Cadmium | < .25 | mg/kg | | | WG544349 | 07/08/11 23:57 |

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Quality Assurance Report
Level II

July 13, 2011

L524386

| Analyte | Result | Laboratory Blank Units | % Rec | Limit | Batch | Date Analyzed |
|--------------------------------|--------|---------------------------|-------|-------|----------|----------------|
| Chromium | < .5 | mg/kg | | | WG544349 | 07/08/11 23:57 |
| Copper | < 1 | mg/kg | | | WG544349 | 07/08/11 23:57 |
| Lead | < .25 | mg/kg | | | WG544349 | 07/08/11 23:57 |
| Nickel | < 1 | mg/kg | | | WG544349 | 07/08/11 23:57 |
| Selenium | < 1 | mg/kg | | | WG544349 | 07/08/11 23:57 |
| Silver | < .5 | mg/kg | | | WG544349 | 07/08/11 23:57 |
| Zinc | < 1.5 | mg/kg | | | WG544349 | 07/08/11 23:57 |
| Reactive Sulf. (SW846 7.3.4.1) | < 25 | mg/kg | | | WG544761 | 07/09/11 14:28 |
| 1,2,4-Trichlorobenzene | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 2,4,6-Trichlorophenol | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 2,4-Dichlorophenol | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 2,4-Dimethylphenol | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 2,4-Dinitrophenol | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 2,4-Dinitrotoluene | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 2,6-Dinitrotoluene | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 2-Chloronaphthalene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 2-Chlorophenol | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 2-Nitrophenol | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 3,3-Dichlorobenzidine | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 4,6-Dinitro-2-methylphenol | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 4-Bromophenyl-phenylether | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 4-Chloro-3-methylphenol | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 4-Chlorophenyl-phenylether | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 4-Nitrophenol | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Acenaphthene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Acenaphthylene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Anthracene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Benzidine | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Benzo(a)anthracene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Benzo(a)pyrene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Benzo(b)fluoranthene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Benzo(g,h,i)perylene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Benzo(k)fluoranthene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Benzylbutyl phthalate | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Bis(2-chlorethoxy)methane | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Bis(2-chloroethyl)ether | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Bis(2-chloroisopropyl)ether | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Bis(2-ethylhexyl)phthalate | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Chrysene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Di-n-butyl phthalate | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Di-n-octyl phthalate | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Dibenz(a,h)anthracene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Diethyl phthalate | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Dimethyl phthalate | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Fluoranthene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Fluorene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Hexachloro-1,3-butadiene | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Hexachlorobenzene | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Hexachlorocyclopentadiene | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Hexachloroethane | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Indeno(1,2,3-cd)pyrene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Isophorone | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| n-Nitrosodi-n-propylamine | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| n-Nitrosodimethylamine | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| n-Nitrosodiphenylamine | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |

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| Analyte | Result | Laboratory Blank | | | Batch | Date Analyzed |
|-----------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | Limit | | |
| Naphthalene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Nitrobenzene | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Pentachlorophenol | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Phenanthren | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Phenol | < .333 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| Pyrene | < .033 | mg/kg | | | WG544706 | 07/11/11 10:48 |
| 2,4,6-Tribromophenol | | mg/kg | 81.26 | 25-137 | WG544706 | 07/11/11 10:48 |
| 2-Fluorobiphenyl | | mg/kg | 74.09 | 30-120 | WG544706 | 07/11/11 10:48 |
| 2-Fluorophenol | | mg/kg | 60.24 | 26-130 | WG544706 | 07/11/11 10:48 |
| Nitrobenzene-d5 | | mg/kg | 59.22 | 18-119 | WG544706 | 07/11/11 10:48 |
| Phenol-d5 | | mg/kg | 71.73 | 37-141 | WG544706 | 07/11/11 10:48 |
| p-Terphenyl-d14 | | mg/kg | 80.91 | 23-143 | WG544706 | 07/11/11 10:48 |
| Specific Conductance | 1.00 | umhos/cm | | | WG545040 | 07/11/11 15:47 |
| Reactive CN (SW846 7.3.3.2) | < .125 | mg/kg | | | WG544759 | 07/11/11 19:01 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG544419 | 07/11/11 21:43 |
| o-Terphenyl | | % Rec. | 83.91 | 50-150 | WG544419 | 07/11/11 21:43 |
| Ethanol | < .1 | mg/kg | | | WG545094 | 07/12/11 10:49 |
| Methanol | < .1 | mg/kg | | | WG545094 | 07/12/11 10:49 |

| Analyte | Units | Result | Duplicate | | RPD | Limit | Ref Samp | Batch |
|----------------------|-------|--------|-----------|-------|-----|-------|------------|----------|
| | | | Duplicate | RPD | | | | |
| Corrosivity | | 0 | 0 | 0 | 0 | 10 | L523805-01 | WG544373 |
| pH | su | 8.00 | 7.90 | 1.26* | 1 | | L523823-21 | WG544378 |
| pH | su | 12.0 | 12.0 | 0 | 1 | | L524386-02 | WG544378 |
| Mercury | mg/kg | 0 | 0 | 0 | 0 | 20 | L524123-22 | WG544187 |
| Chromium, Hexavalent | mg/kg | 0 | 5.20 | NA | 20 | | L524263-04 | WG544563 |
| Chromium, Hexavalent | mg/kg | 0 | 0 | 0 | 20 | | L524098-01 | WG544563 |
| Mercury | mg/l | 0 | 0 | 0 | 0 | 20 | L524139-08 | WG544656 |
| Arsenic | mg/l | 0 | 0 | 0 | 0 | 20 | L524495-05 | WG544657 |
| Barium | mg/l | 0 | 0 | 0 | 0 | 20 | L524495-05 | WG544657 |
| Cadmium | mg/l | 0 | 0 | 0 | 0 | 20 | L524495-05 | WG544657 |
| Chromium | mg/l | 0 | 0 | 0 | 0 | 20 | L524495-05 | WG544657 |
| Lead | mg/l | 0 | 0 | 0 | 0 | 20 | L524495-05 | WG544657 |
| Selenium | mg/l | 0 | 0 | 0 | 0 | 20 | L524495-05 | WG544657 |
| Silver | mg/l | 0 | 0 | 0 | 0 | 20 | L524495-05 | WG544657 |
| Arsenic | mg/kg | 1.10 | 1.10 | 2.69 | 20 | | L524469-01 | WG544349 |
| Barium | mg/kg | 61.0 | 65.0 | 6.35 | 20 | | L524469-01 | WG544349 |
| Cadmium | mg/kg | 0 | 0 | 0 | 20 | | L524469-01 | WG544349 |

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Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

L524386

July 13, 2011

| Analyte | Units | Result | Duplicate | Duplicate | RPD | Limit | Ref Samp | Batch |
|--------------------------------|----------|----------------------|----------------|-----------|-------|--------|------------|----------|
| Chromium | mg/kg | 9.20 | | 11.0 | 18.4 | 20 | L524469-01 | WG544349 |
| Copper | mg/kg | 4.10 | | 4.31 | 4.75 | 20 | L524469-01 | WG544349 |
| Lead | mg/kg | 13.0 | | 18.0 | 31.5* | 20 | L524469-01 | WG544349 |
| Nickel | mg/kg | 6.10 | | 6.55 | 7.77 | 20 | L524469-01 | WG544349 |
| Selenium | mg/kg | 0 | | 0 | 0 | 20 | L524469-01 | WG544349 |
| Silver | mg/kg | 0 | | 0 | 0 | 20 | L524469-01 | WG544349 |
| Zinc | mg/kg | 47.0 | | 46.0 | 2.15 | 20 | L524469-01 | WG544349 |
| Reactive Sulf. (SW846 7.3.4.1) | mg/kg | 48.0 | | 37.0 | 26.4* | 20 | L524386-01 | WG544761 |
| ORP | mV | 140. | | 140. | 0.717 | 20 | L524098-04 | WG544368 |
| ORP | mV | 100. | | 98.0 | 4.00 | 20 | L524263-02 | WG544368 |
| Specific Conductance | umhos/cm | 38.0 | | 34.0 | 10.6 | 20 | L524098-01 | WG545040 |
| Specific Conductance | umhos/cm | 38.0 | | 32.0 | 15.8 | 20 | L524257-02 | WG545040 |
| Reactive CN (SW846 7.3.3.2) | mg/kg | 0 | | 0 | 0 | 20 | L524386-01 | WG544759 |
| Paint Filter Test | % | 0 | | 0 | 0 | 20 | L524606-01 | WG545262 |
| Ignitability | Deg. F | 0 | | 0 | 0 | 10 | L524386-01 | WG545283 |
| Analyte | Units | Laboratory Known Val | Control Sample | Result | % Rec | Limit | Batch | |
| 1,1,1,2-Tetrachloroethane | mg/kg | .025 | | 0.0268 | 107. | 73-134 | WG544259 | |
| 1,1,1-Trichloroethane | mg/kg | .025 | | 0.0248 | 99.1 | 62-135 | WG544259 | |
| 1,1,2,2-Tetrachloroethane | mg/kg | .025 | | 0.0251 | 100. | 74-129 | WG544259 | |
| 1,1,2-Trichloroethane | mg/kg | .025 | | 0.0245 | 97.8 | 77-124 | WG544259 | |
| 1,1-Dichloroethane | mg/kg | .025 | | 0.0245 | 98.0 | 61-134 | WG544259 | |
| 1,1-Dichloroethene | mg/kg | .025 | | 0.0238 | 95.0 | 53-136 | WG544259 | |
| 1,1-Dichloropropene | mg/kg | .025 | | 0.0238 | 95.3 | 63-132 | WG544259 | |
| 1,2,3-Trichlorobenzene | mg/kg | .025 | | 0.0257 | 103. | 62-146 | WG544259 | |
| 1,2,3-Trichloropropane | mg/kg | .025 | | 0.0259 | 104. | 70-133 | WG544259 | |
| 1,2,4-Trichlorobenzene | mg/kg | .025 | | 0.0245 | 98.1 | 61-148 | WG544259 | |
| 1,2,4-Trimethylbenzene | mg/kg | .025 | | 0.0260 | 104. | 68-135 | WG544259 | |
| 1,2-Dibromo-3-Chloropropane | mg/kg | .025 | | 0.0222 | 88.7 | 61-134 | WG544259 | |
| 1,2-Dibromoethane | mg/kg | .025 | | 0.0258 | 103. | 76-127 | WG544259 | |
| 1,2-Dichlorobenzene | mg/kg | .025 | | 0.0247 | 99.0 | 77-123 | WG544259 | |
| 1,2-Dichloroethane | mg/kg | .025 | | 0.0230 | 92.2 | 58-141 | WG544259 | |
| 1,2-Dichloropropane | mg/kg | .025 | | 0.0259 | 103. | 71-128 | WG544259 | |
| 1,3,5-Trimethylbenzene | mg/kg | .025 | | 0.0262 | 105. | 71-133 | WG544259 | |
| 1,3-Dichlorobenzene | mg/kg | .025 | | 0.0263 | 105. | 71-132 | WG544259 | |
| 1,3-Dichloropropane | mg/kg | .025 | | 0.0246 | 98.3 | 76-120 | WG544259 | |
| 1,4-Dichlorobenzene | mg/kg | .025 | | 0.0257 | 103. | 72-123 | WG544259 | |
| 2,2-Dichloropropane | mg/kg | .025 | | 0.0233 | 93.4 | 50-147 | WG544259 | |
| 2-Butanone (MFK) | mg/kg | .125 | | 0.107 | 85.5 | 51-131 | WG544259 | |
| 2-Chloroethyl vinyl ether | mg/kg | .125 | | 0.0906 | 72.5 | 0-188 | WG544259 | |
| 2-Chlorotoluene | mg/kg | .025 | | 0.0252 | 101. | 73-128 | WG544259 | |
| 4-Chlorotoluene | mg/kg | .025 | | 0.0261 | 105. | 72-129 | WG544259 | |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | .125 | | 0.105 | 84.1 | 61-143 | WG544259 | |
| Acetone | mg/kg | .125 | | 0.108 | 86.2 | 44-140 | WG544259 | |
| Acrylonitrile | mg/kg | .125 | | 0.116 | 92.5 | 55-143 | WG544259 | |

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Tax I.D. 62-0814289

Est. 1970

July 13, 2011

| Analyte | Units | Laboratory Control Known Val | Sample Result | % Rec | Limit | Batch |
|-----------------------------|-------|------------------------------|---------------|-------|--------------|----------|
| Benzene | mg/kg | .025 | 0.0240 | 95.8 | 65-128 | WG544259 |
| Bromobenzene | mg/kg | .025 | 0.0254 | 102. | 75-123 | WG544259 |
| Bromodichloromethane | mg/kg | .025 | 0.0232 | 93.0 | 66-126 | WG544259 |
| Bromoform | mg/kg | .025 | 0.0276 | 110. | 64-139 | WG544259 |
| Bromomethane | mg/kg | .025 | 0.0272 | 109. | 41-175 | WG544259 |
| Carbon tetrachloride | mg/kg | .025 | 0.0251 | 100. | 60-140 | WG544259 |
| Chlorobenzene | mg/kg | .025 | 0.0262 | 105. | 75-125 | WG544259 |
| Chlorodibromomethane | mg/kg | .025 | 0.0279 | 112. | 72-137 | WG544259 |
| Chloroethane | mg/kg | .025 | 0.0248 | 99.3 | 44-159 | WG544259 |
| Chloroform | mg/kg | .025 | 0.0250 | 99.9 | 63-123 | WG544259 |
| Chloromethane | mg/kg | .025 | 0.0312 | 125. | 42-149 | WG544259 |
| cis-1,2-Dichloroethene | mg/kg | .025 | 0.0248 | 99.1 | 71-129 | WG544259 |
| cis-1,3-Dichloropropene | mg/kg | .025 | 0.0247 | 98.8 | 73-132 | WG544259 |
| Di-isopropyl ether | mg/kg | .025 | 0.0247 | 98.8 | 59-143 | WG544259 |
| Dibromomethane | mg/kg | .025 | 0.0237 | 94.9 | 70-130 | WG544259 |
| Dichlorodifluoromethane | mg/kg | .025 | 0.0348 | 139. | 26-186 | WG544259 |
| Ethylbenzene | mg/kg | .025 | 0.0272 | 109. | 74-128 | WG544259 |
| Hexachloro-1,3-butadiene | mg/kg | .025 | 0.0252 | 101. | 65-137 | WG544259 |
| Isopropylbenzene | mg/kg | .025 | 0.0258 | 103. | 73-130 | WG544259 |
| Methyl tert-butyl ether | mg/kg | .025 | 0.0231 | 92.3 | 44-148 | WG544259 |
| Methylene Chloride | mg/kg | .025 | 0.0246 | 98.5 | 57-129 | WG544259 |
| n-Butylbenzene | mg/kg | .025 | 0.0241 | 96.4 | 60-145 | WG544259 |
| n-Hexane | mg/kg | .025 | 0.0242 | 97.0 | 28-169 | WG544259 |
| n-Propylbenzene | mg/kg | .025 | 0.0254 | 102. | 71-132 | WG544259 |
| Naphthalene | mg/kg | .025 | 0.0241 | 96.3 | 61-142 | WG544259 |
| p-Isopropyltoluene | mg/kg | .025 | 0.0267 | 107. | 67-138 | WG544259 |
| sec-Butylbenzene | mg/kg | .025 | 0.0265 | 106. | 71-134 | WG544259 |
| Styrene | mg/kg | .025 | 0.0264 | 106. | 76-133 | WG544259 |
| tert-Butylbenzene | mg/kg | .025 | 0.0258 | 103. | 72-132 | WG544259 |
| Tetrachloroethene | mg/kg | .025 | 0.0274 | 110. | 65-135 | WG544259 |
| Toluene | mg/kg | .025 | 0.0241 | 96.2 | 70-120 | WG544259 |
| trans-1,2-Dichloroethene | mg/kg | .025 | 0.0256 | 102. | 61-133 | WG544259 |
| trans-1,3-Dichloropropene | mg/kg | .025 | 0.0234 | 93.7 | 70-135 | WG544259 |
| Trichloroethene | mg/kg | .025 | 0.0256 | 102. | 71-126 | WG544259 |
| Trichlorofluoromethane | mg/kg | .025 | 0.0227 | 90.7 | 52-147 | WG544259 |
| Vinyl chloride | mg/kg | .025 | 0.0285 | 114. | 50-151 | WG544259 |
| Xylenes, Total | mg/kg | .075 | 0.0778 | 104. | 74-127 | WG544259 |
| 4-Bromofluorobenzene | | | | 104.4 | 59-140 | WG544259 |
| Dibromofluoromethane | | | | 103.0 | 63-139 | WG544259 |
| Toluene-d8 | | | | 100.3 | 84-116 | WG544259 |
| a,a,a-Trifluorotoluene | | | | 108.3 | 80-118 | WG544259 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 5.40 | 98.1 | 67-135 | WG544284 |
| a,a,a-Trifluorotoluene(FID) | | | | 102.2 | 59-128 | WG544284 |
| Corrosivity | | 6.3 | 6.30 | 100. | 97.98-102.02 | WG544373 |
| pH | su | 6.3 | 6.30 | 100. | 97.98-102.02 | WG544378 |
| 1,1,1,2-Tetrachloroethane | mg/kg | .025 | 0.0255 | 102. | 73-134 | WG544601 |
| 1,1,1-Trichloroethane | mg/kg | .025 | 0.0249 | 99.5 | 62-135 | WG544601 |
| 1,1,2,2-Tetrachloroethane | mg/kg | .025 | 0.0246 | 98.3 | 74-129 | WG544601 |
| 1,1,2-Trichloroethane | mg/kg | .025 | 0.0246 | 98.3 | 77-124 | WG544601 |
| 1,1-Dichloroethane | mg/kg | .025 | 0.0235 | 94.2 | 61-134 | WG544601 |
| 1,1-Dichloroethene | mg/kg | .025 | 0.0239 | 95.5 | 53-136 | WG544601 |

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July 13, 2011

| Analyte | Units | Laboratory Control Known Val | Sample Result | % Rec | Limit | Batch |
|-----------------------------|-------|------------------------------|---------------|-------|--------|----------|
| 1,1-Dichloropropene | mg/kg | .025 | 0.0242 | 96.7 | 63-132 | WG544601 |
| 1,2,3-Trichlorobenzene | mg/kg | .025 | 0.0240 | 96.2 | 62-146 | WG544601 |
| 1,2,3-Trichloropropane | mg/kg | .025 | 0.0255 | 102. | 70-133 | WG544601 |
| 1,2,4-Trichlorobenzene | mg/kg | .025 | 0.0248 | 99.0 | 61-148 | WG544601 |
| 1,2,4-Trimethylbenzene | mg/kg | .025 | 0.0244 | 97.4 | 68-135 | WG544601 |
| 1,2-Dibromo-3-Chloropropane | mg/kg | .025 | 0.0244 | 97.6 | 61-134 | WG544601 |
| 1,2-Dibromoethane | mg/kg | .025 | 0.0258 | 103. | 76-127 | WG544601 |
| 1,2-Dichlorobenzene | mg/kg | .025 | 0.0238 | 95.2 | 77-123 | WG544601 |
| 1,2-Dichloroethane | mg/kg | .025 | 0.0247 | 98.7 | 58-141 | WG544601 |
| 1,2-Dichloropropane | mg/kg | .025 | 0.0237 | 94.6 | 71-128 | WG544601 |
| 1,3,5-Trimethylbenzene | mg/kg | .025 | 0.0244 | 97.4 | 71-133 | WG544601 |
| 1,3-Dichlorobenzene | mg/kg | .025 | 0.0238 | 95.4 | 71-132 | WG544601 |
| 1,3-Dichloropropane | mg/kg | .025 | 0.0242 | 96.7 | 76-120 | WG544601 |
| 1,4-Dichlorobenzene | mg/kg | .025 | 0.0228 | 91.3 | 72-123 | WG544601 |
| 2,2-Dichloropropane | mg/kg | .025 | 0.0236 | 94.4 | 50-147 | WG544601 |
| 2-Butanone (MEK) | mg/kg | .125 | 0.128 | 102. | 51-131 | WG544601 |
| 2-Chloroethyl vinyl ether | mg/kg | .125 | 0.131 | 105. | 0-188 | WG544601 |
| 2-Chlorotoluene | mg/kg | .025 | 0.0245 | 97.8 | 73-128 | WG544601 |
| 4-Chlorotoluene | mg/kg | .025 | 0.0236 | 94.6 | 72-129 | WG544601 |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | .125 | 0.134 | 107. | 61-143 | WG544601 |
| Acetone | mg/kg | .125 | 0.116 | 92.9 | 44-140 | WG544601 |
| Acrylonitrile | mg/kg | .125 | 0.123 | 98.6 | 55-143 | WG544601 |
| Benzene | mg/kg | .025 | 0.0231 | 92.4 | 65-128 | WG544601 |
| Bromobenzene | mg/kg | .025 | 0.0236 | 94.3 | 75-123 | WG544601 |
| Bromodichloromethane | mg/kg | .025 | 0.0253 | 101. | 66-126 | WG544601 |
| Bromoform | mg/kg | .025 | 0.0250 | 100. | 64-139 | WG544601 |
| Bromomethane | mg/kg | .025 | 0.0255 | 102. | 41-175 | WG544601 |
| Carbon tetrachloride | mg/kg | .025 | 0.0234 | 93.4 | 60-140 | WG544601 |
| Chlorobenzene | mg/kg | .025 | 0.0243 | 97.2 | 75-125 | WG544601 |
| Chlorodibromomethane | mg/kg | .025 | 0.0258 | 103. | 72-137 | WG544601 |
| Chloroethane | mg/kg | .025 | 0.0260 | 104. | 44-159 | WG544601 |
| Chloroform | mg/kg | .025 | 0.0240 | 96.1 | 63-123 | WG544601 |
| Chloromethane | mg/kg | .025 | 0.0227 | 90.8 | 42-149 | WG544601 |
| cis-1,2-Dichloroethene | mg/kg | .025 | 0.0234 | 93.8 | 71-129 | WG544601 |
| cis-1,3-Dichloropropene | mg/kg | .025 | 0.0252 | 101. | 73-132 | WG544601 |
| Di-isopropyl ether | mg/kg | .025 | 0.0227 | 90.8 | 59-143 | WG544601 |
| Dibromomethane | mg/kg | .025 | 0.0249 | 99.8 | 70-130 | WG544601 |
| Dichlorodifluoromethane | mg/kg | .025 | 0.0347 | 139. | 26-186 | WG544601 |
| Ethylbenzene | mg/kg | .025 | 0.0247 | 98.8 | 74-128 | WG544601 |
| Hexachloro-1,3-butadiene | mg/kg | .025 | 0.0246 | 98.4 | 65-137 | WG544601 |
| Isopropylbenzene | mg/kg | .025 | 0.0247 | 98.8 | 73-130 | WG544601 |
| Methyl tert-butyl ether | mg/kg | .025 | 0.0246 | 98.5 | 44-148 | WG544601 |
| Methylene Chloride | mg/kg | .025 | 0.0210 | 84.2 | 57-129 | WG544601 |
| n-Butylbenzene | mg/kg | .025 | 0.0251 | 101. | 60-145 | WG544601 |
| n-Hexane | mg/kg | .025 | 0.0239 | 95.4 | 28-169 | WG544601 |
| n-Propylbenzene | mg/kg | .025 | 0.0240 | 96.1 | 71-132 | WG544601 |
| Naphthalene | mg/kg | .025 | 0.0253 | 101. | 61-142 | WG544601 |
| p-Isopropyltoluene | mg/kg | .025 | 0.0250 | 100. | 67-138 | WG544601 |
| sec-Butylbenzene | mg/kg | .025 | 0.0245 | 97.9 | 71-134 | WG544601 |
| Styrene | mg/kg | .025 | 0.0255 | 102. | 76-133 | WG544601 |
| tert-Butylbenzene | mg/kg | .025 | 0.0250 | 99.9 | 72-132 | WG544601 |
| Tetrachloroethene | mg/kg | .025 | 0.0252 | 101. | 65-135 | WG544601 |
| Toluene | mg/kg | .025 | 0.0231 | 92.4 | 70-120 | WG544601 |
| trans-1,2-Dichloroethene | mg/kg | .025 | 0.0236 | 94.6 | 61-133 | WG544601 |
| trans-1,3-Dichloropropene | mg/kg | .025 | 0.0258 | 103. | 70-135 | WG544601 |
| Trichloroethene | mg/kg | .025 | 0.0248 | 99.2 | 71-126 | WG544601 |
| Trichlorofluoromethane | mg/kg | .025 | 0.0269 | 108. | 52-147 | WG544601 |
| Vinyl chloride | mg/kg | .025 | 0.0250 | 99.8 | 50-151 | WG544601 |
| Xylenes, Total | mg/kg | .075 | 0.0729 | 97.2 | 74-127 | WG544601 |

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Est. 1970

Quality Assurance Report
Level II

July 13, 2011

L524386

| Analyte | Units | Laboratory Known Val | Control Sample Result | % Rec | Limit | Batch |
|-------------------------------|-------|----------------------|-----------------------|-------|------------|----------|
| 4-Bromofluorobenzene | | | | 99.85 | 59-140 | |
| Dibromofluoromethane | | | | 101.3 | 63-139 | |
| Toluene-d8 | | | | 101.2 | 84-116 | |
| a,a,a-Trifluorotoluene | | | | 104.2 | 80-118 | |
| Mercury | mg/kg | 8.77 | 9.46 | 108. | 71.6-127.7 | WG544187 |
| Chromium, Hexavalent | mg/kg | 132 | 98.0 | 74.2 | 50-150 | WG544563 |
| Mercury | mg/l | .003 | 0.00299 | 99.7 | 85-115 | WG544656 |
| Arsenic | mg/l | 1.13 | 1.19 | 105. | 85-115 | WG544657 |
| Barium | mg/l | 1.13 | 1.19 | 105. | 85-115 | WG544657 |
| Cadmium | mg/l | 1.13 | 1.15 | 102. | 85-115 | WG544657 |
| Chromium | mg/l | 1.13 | 1.20 | 106. | 85-115 | WG544657 |
| Lead | mg/l | 1.13 | 1.17 | 104. | 85-115 | WG544657 |
| Selenium | mg/l | 1.13 | 1.18 | 104. | 85-115 | WG544657 |
| Silver | mg/l | 1.13 | 1.23 | 109. | 85-115 | WG544657 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 5.33 | 96.9 | 67-135 | WG544629 |
| a,a,a-Trifluorotoluene(FID) | | | | 99.81 | 59-128 | WG544629 |
| Arsenic | mg/kg | 192 | 178. | 92.7 | 78.6-120.8 | WG544349 |
| Barium | mg/kg | 420 | 403. | 96.0 | 78.8-121.4 | WG544349 |
| Cadmium | mg/kg | 70.1 | 64.6 | 92.2 | 78.5-121.5 | WG544349 |
| Chromium | mg/kg | 168 | 161. | 95.8 | 80.4-120.2 | WG544349 |
| Copper | mg/kg | 122 | 123. | 101. | 81.6-119.7 | WG544349 |
| Lead | mg/kg | 113 | 110. | 97.3 | 77.3-122.1 | WG544349 |
| Nickel | mg/kg | 74.1 | 73.6 | 99.3 | 78.8-121.2 | WG544349 |
| Selenium | mg/kg | 176 | 167. | 94.9 | 75.6-125.0 | WG544349 |
| Silver | mg/kg | 115 | 114. | 99.1 | 66-133.9 | WG544349 |
| Zinc | mg/kg | 437 | 411. | 94.1 | 78.5-121.7 | WG544349 |
| Reactive Sulf.(SW846 7.3.4.1) | mg/kg | 100 | 82.0 | 82.0 | 70-130 | WG544761 |
| 1,2,4-Trichlorobenzene | mg/kg | .333 | 0.244 | 73.2 | 50-141 | WG544706 |
| 2,4,6-Trichlorophenol | mg/kg | .333 | 0.281 | 84.5 | 46-110 | WG544706 |
| 2,4-Dichlorophenol | mg/kg | .333 | 0.278 | 83.4 | 47-107 | WG544706 |
| 2,4-Dimethylphenol | mg/kg | .333 | 0.263 | 79.0 | 55-173 | WG544706 |
| 2,4-Dinitrophenol | mg/kg | .333 | 0.270 | 81.1 | 10-127 | WG544706 |
| 2,4-Dinitrotoluene | mg/kg | .333 | 0.301 | 90.3 | 49-119 | WG544706 |
| 2,6-Dinitrotoluene | mg/kg | .333 | 0.284 | 85.4 | 52-114 | WG544706 |
| 2-Chloronaphthalene | mg/kg | .333 | 0.254 | 76.2 | 45-110 | WG544706 |
| 2-Chlorophenol | mg/kg | .333 | 0.238 | 71.4 | 40-105 | WG544706 |
| 2-Nitrophenol | mg/kg | .333 | 0.263 | 78.8 | 45-110 | WG544706 |
| 3,3-Dichlorobenzidine | mg/kg | .333 | 0.191 | 57.4 | 31-105 | WG544706 |
| 4,6-Dinitro-2-methylphenol | mg/kg | .333 | 0.241 | 72.5 | 20-117 | WG544706 |
| 4-Bromophenyl-phenylether | mg/kg | .333 | 0.285 | 85.7 | 37-114 | WG544706 |
| 4-Chloro-3-methylphenol | mg/kg | .333 | 0.298 | 89.4 | 47-110 | WG544706 |
| 4-Chlorophenyl-phenylether | mg/kg | .333 | 0.277 | 83.1 | 50-116 | WG544706 |
| 4-Nitrophenol | mg/kg | .333 | 0.245 | 73.5 | 30-119 | WG544706 |
| Acenaphthene | mg/kg | .333 | 0.261 | 78.3 | 41-114 | WG544706 |
| Acenaphthylene | mg/kg | .333 | 0.270 | 81.1 | 41-119 | WG544706 |

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Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

July 13, 2011

L524386

| Analyte | Units | Laboratory Control Known Val | Sample Result | % Rec | Limit | Batch |
|-----------------------------|----------|------------------------------|---------------|-------|-------------|----------|
| Anthracene | mg/kg | .333 | 0.259 | 77.8 | 45-118 | WG544706 |
| Benzidine | mg/kg | .333 | 0.00212 | 0.636 | 0-13 | WG544706 |
| Benzo(a)anthracene | mg/kg | .333 | 0.272 | 81.6 | 44-118 | WG544706 |
| Benzo(a)pyrene | mg/kg | .333 | 0.281 | 84.3 | 44-116 | WG544706 |
| Benzo(b)fluoranthene | mg/kg | .333 | 0.287 | 86.2 | 37-122 | WG544706 |
| Benzo(g,h,i)perylene | mg/kg | .333 | 0.301 | 90.5 | 32-132 | WG544706 |
| Benzo(k)fluoranthene | mg/kg | .333 | 0.264 | 79.2 | 35-123 | WG544706 |
| Benzylbutyl phthalate | mg/kg | .333 | 0.341 | 103. | 47-130 | WG544706 |
| Bis(2-chlorethoxy)methane | mg/kg | .333 | 0.263 | 79.0 | 46-115 | WG544706 |
| Bis(2-chloroethyl)ether | mg/kg | .333 | 0.229 | 68.7 | 36-113 | WG544706 |
| Bis(2-chloroisopropyl)ether | mg/kg | .333 | 0.251 | 75.4 | 42-112 | WG544706 |
| Bis(2-ethylhexyl)phthalate | mg/kg | .333 | 0.335 | 101. | 46-131 | WG544706 |
| Chrysene | mg/kg | .333 | 0.273 | 82.1 | 44-118 | WG544706 |
| Di-n-butyl phthalate | mg/kg | .333 | 0.276 | 82.7 | 46-133 | WG544706 |
| Di-n-octyl phthalate | mg/kg | .333 | 0.324 | 97.3 | 42-130 | WG544706 |
| Dibenz(a,h)anthracene | mg/kg | .333 | 0.327 | 98.2 | 34-127 | WG544706 |
| Diethyl phthalate | mg/kg | .333 | 0.304 | 91.3 | 53-119 | WG544706 |
| Dimethyl phthalate | mg/kg | .333 | 0.290 | 87.1 | 54-116 | WG544706 |
| Fluoranthene | mg/kg | .333 | 0.276 | 82.9 | 45-122 | WG544706 |
| Fluorene | mg/kg | .333 | 0.291 | 87.3 | 43-118 | WG544706 |
| Hexachloro-1,3-butadiene | mg/kg | .333 | 0.286 | 85.9 | 56-134 | WG544706 |
| Hexachlorobenzene | mg/kg | .333 | 0.270 | 81.1 | 43-123 | WG544706 |
| Hexachlorocyclopentadiene | mg/kg | .333 | 0.196 | 58.9 | 20-113 | WG544706 |
| Hexachloroethane | mg/kg | .333 | 0.229 | 68.9 | 34-101 | WG544706 |
| Indeno(1,2,3-cd)pyrene | mg/kg | .333 | 0.309 | 92.8 | 35-128 | WG544706 |
| Isophorone | mg/kg | .333 | 0.220 | 66.2 | 43-105 | WG544706 |
| n-Nitrosodi-n-propylamine | mg/kg | .333 | 0.271 | 81.4 | 37-121 | WG544706 |
| n-Nitrosodimethylamine | mg/kg | .333 | 0.185 | 55.6 | 25-132 | WG544706 |
| n-Nitrosodiphenylamine | mg/kg | .333 | 0.269 | 80.7 | 45-121 | WG544706 |
| Naphthalene | mg/kg | .333 | 0.245 | 73.6 | 32-144 | WG544706 |
| Nitrobenzene | mg/kg | .333 | 0.247 | 74.2 | 33-114 | WG544706 |
| Pentachlorophenol | mg/kg | .333 | 0.233 | 70.0 | 33-121 | WG544706 |
| Phenanthrene | mg/kg | .333 | 0.276 | 83.0 | 43-115 | WG544706 |
| Phenol | mg/kg | .333 | 0.377 | 113.* | 43-106 | WG544706 |
| Pyrene | mg/kg | .333 | 0.296 | 88.9 | 41-123 | WG544706 |
| 2,4,6-Tribromophenol | | | | 92.86 | 25-137 | WG544706 |
| 2-Fluorobiphenyl | | | | 81.56 | 30-120 | WG544706 |
| 2-Fluorophenol | | | | 67.25 | 26-130 | WG544706 |
| Nitrobenzene-d5 | | | | 78.43 | 18-119 | WG544706 |
| Phenol-d5 | | | | 80.86 | 37-141 | WG544706 |
| p-Terphenyl-d14 | | | | 93.59 | 23-143 | WG544706 |
| ORP | mV | 229 | 220. | 96.1 | 95.6-104.37 | WG544368 |
| Specific Conductance | umhos/cm | 445 | 440. | 98.9 | 85-115 | WG545040 |
| TPH (GC/FID) High Fraction | ppm | 60 | 49.7 | 82.8 | 50-150 | WG544419 |
| o-Terphenyl | | | | 77.01 | 50-150 | WG544419 |
| Ethanol | mg/kg | .5 | 0.515 | 103. | 70-130 | WG545094 |
| Methanol | mg/kg | .5 | 0.461 | 92.3 | 70-130 | WG545094 |
| Ignitability | Deg. F | 82 | 84.0 | 102. | 93-107 | WG545283 |

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Level II

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| Analyte | Units | Laboratory Result | Control Ref | Sample %Rec | Duplicate Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------|-------------|-------------|-----------------|--------|-------|----------|
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.0268 | 0.0268 | 107. | 73-134 | 0.0100 | 20 | WG544259 |
| 1,1,1-Trichloroethane | mg/kg | 0.0242 | 0.0248 | 97.0 | 62-135 | 2.31 | 20 | WG544259 |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.0244 | 0.0251 | 98.0 | 74-129 | 2.88 | 20 | WG544259 |
| 1,1,2-Trichloroethane | mg/kg | 0.0242 | 0.0245 | 97.0 | 77-124 | 1.25 | 20 | WG544259 |
| 1,1-Dichloroethane | mg/kg | 0.0223 | 0.0245 | 89.0 | 61-134 | 9.30 | 20 | WG544259 |
| 1,1-Dichloroethene | mg/kg | 0.0227 | 0.0238 | 91.0 | 53-136 | 4.35 | 20 | WG544259 |
| 1,1-Dichloropropene | mg/kg | 0.0240 | 0.0238 | 96.0 | 63-132 | 0.510 | 20 | WG544259 |
| 1,2,3-Trichlorobenzene | mg/kg | 0.0265 | 0.0257 | 106. | 62-146 | 2.94 | 20 | WG544259 |
| 1,2,3-Trichloropropane | mg/kg | 0.0234 | 0.0259 | 94.0 | 70-133 | 9.96 | 20 | WG544259 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.0250 | 0.0245 | 100. | 61-148 | 2.11 | 20 | WG544259 |
| 1,2,4-Trimethylbenzene | mg/kg | 0.0251 | 0.0260 | 100. | 68-135 | 3.64 | 20 | WG544259 |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 0.0233 | 0.0222 | 93.0 | 61-134 | 4.86 | 21 | WG544259 |
| 1,2-Dibromoethane | mg/kg | 0.0246 | 0.0258 | 98.0 | 76-127 | 4.53 | 20 | WG544259 |
| 1,2-Dichlorobenzene | mg/kg | 0.0251 | 0.0247 | 100. | 77-123 | 1.36 | 20 | WG544259 |
| 1,2-Dichloroethane | mg/kg | 0.0211 | 0.0230 | 84.0 | 58-141 | 8.57 | 20 | WG544259 |
| 1,2-Dichloropropene | mg/kg | 0.0252 | 0.0259 | 101. | 71-128 | 2.51 | 20 | WG544259 |
| 1,3,5-Trimethylbenzene | mg/kg | 0.0257 | 0.0262 | 103. | 71-133 | 1.97 | 20 | WG544259 |
| 1,3-Dichlorobenzene | mg/kg | 0.0255 | 0.0263 | 102. | 71-132 | 2.96 | 20 | WG544259 |
| 1,3-Dichloropropane | mg/kg | 0.0238 | 0.0246 | 95.0 | 76-120 | 3.35 | 20 | WG544259 |
| 1,4-Dichlorobenzene | mg/kg | 0.0251 | 0.0257 | 100. | 72-123 | 2.21 | 20 | WG544259 |
| 2,2-Dichloropropane | mg/kg | 0.0231 | 0.0233 | 92.0 | 50-147 | 1.13 | 20 | WG544259 |
| 2-Butanone (MEK) | mg/kg | 0.104 | 0.107 | 83.0 | 51-131 | 2.75 | 25 | WG544259 |
| 2-Chloroethyl vinyl ether | mg/kg | 0.0921 | 0.0906 | 74.0 | 0-188 | 1.64 | 39 | WG544259 |
| 2-Chlorotoluene | mg/kg | 0.0252 | 0.0252 | 101. | 73-128 | 0.0300 | 20 | WG544259 |
| 4-Chlorotoluene | mg/kg | 0.0253 | 0.0261 | 101. | 72-129 | 3.38 | 20 | WG544259 |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | 0.100 | 0.105 | 80.0 | 61-143 | 4.97 | 23 | WG544259 |
| Acetone | mg/kg | 0.103 | 0.108 | 83.0 | 44-140 | 4.18 | 25 | WG544259 |
| Acrylonitrile | mg/kg | 0.112 | 0.116 | 90.0 | 55-143 | 2.79 | 20 | WG544259 |
| Benzene | mg/kg | 0.0236 | 0.0240 | 94.0 | 65-128 | 1.43 | 20 | WG544259 |
| Bromobenzene | mg/kg | 0.0247 | 0.0254 | 99.0 | 75-123 | 3.05 | 20 | WG544259 |
| Bromodichloromethane | mg/kg | 0.0232 | 0.0232 | 93.0 | 66-126 | 0.300 | 20 | WG544259 |
| Bromoform | mg/kg | 0.0269 | 0.0276 | 108. | 64-139 | 2.68 | 20 | WG544259 |
| Bromomethane | mg/kg | 0.0252 | 0.0272 | 101. | 41-175 | 7.51 | 20 | WG544259 |
| Carbon tetrachloride | mg/kg | 0.0244 | 0.0251 | 98.0 | 60-140 | 2.80 | 20 | WG544259 |
| Chlorobenzene | mg/kg | 0.0258 | 0.0262 | 103. | 75-125 | 1.59 | 20 | WG544259 |
| Chlorodibromomethane | mg/kg | 0.0263 | 0.0279 | 105. | 72-137 | 5.88 | 20 | WG544259 |
| Chloroethane | mg/kg | 0.0234 | 0.0248 | 94.0 | 44-159 | 5.75 | 20 | WG544259 |
| Chloroform | mg/kg | 0.0244 | 0.0250 | 98.0 | 63-123 | 2.18 | 20 | WG544259 |
| Chloromethane | mg/kg | 0.0289 | 0.0312 | 116. | 42-149 | 7.57 | 20 | WG544259 |
| cis-1,2-Dichloroethene | mg/kg | 0.0256 | 0.0248 | 102. | 71-129 | 3.17 | 20 | WG544259 |
| cis-1,3-Dichloropropene | mg/kg | 0.0237 | 0.0247 | 95.0 | 73-132 | 3.96 | 20 | WG544259 |
| Di-isopropyl ether | mg/kg | 0.0228 | 0.0247 | 91.0 | 59-143 | 8.08 | 20 | WG544259 |
| Dibromomethane | mg/kg | 0.0221 | 0.0237 | 88.0 | 70-130 | 6.92 | 20 | WG544259 |
| Dichlorodifluoromethane | mg/kg | 0.0311 | 0.0348 | 124. | 26-186 | 11.1 | 22 | WG544259 |
| Ethylbenzene | mg/kg | 0.0262 | 0.0272 | 105. | 74-128 | 3.59 | 20 | WG544259 |
| Hexachloro-1,3-butadiene | mg/kg | 0.0248 | 0.0252 | 99.0 | 65-137 | 1.68 | 20 | WG544259 |
| Isopropylbenzene | mg/kg | 0.0257 | 0.0258 | 103. | 73-130 | 0.590 | 20 | WG544259 |
| Methyl tert-butyl ether | mg/kg | 0.0220 | 0.0231 | 88.0 | 44-148 | 4.84 | 20 | WG544259 |
| Methylene Chloride | mg/kg | 0.0243 | 0.0246 | 97.0 | 57-129 | 1.29 | 20 | WG544259 |
| n-Butylbenzene | mg/kg | 0.0234 | 0.0241 | 93.0 | 60-145 | 3.07 | 20 | WG544259 |
| n-Hexane | mg/kg | 0.0228 | 0.0242 | 91.0 | 28-169 | 6.15 | 20 | WG544259 |
| n-Propylbenzene | mg/kg | 0.0244 | 0.0254 | 98.0 | 71-132 | 4.23 | 20 | WG544259 |
| Naphthalene | mg/kg | 0.0238 | 0.0241 | 95.0 | 61-142 | 1.23 | 20 | WG544259 |
| p-Isopropyltoluene | mg/kg | 0.0261 | 0.0267 | 104. | 67-138 | 2.15 | 20 | WG544259 |
| sec-Butylbenzene | mg/kg | 0.0256 | 0.0265 | 102. | 71-134 | 3.42 | 20 | WG544259 |
| Styrene | mg/kg | 0.0256 | 0.0264 | 102. | 76-133 | 3.10 | 20 | WG544259 |
| tert-Butylbenzene | mg/kg | 0.0249 | 0.0258 | 100. | 72-132 | 3.69 | 20 | WG544259 |
| Tetrachloroethene | mg/kg | 0.0257 | 0.0274 | 103. | 65-135 | 6.35 | 20 | WG544259 |
| Toluene | mg/kg | 0.0232 | 0.0241 | 93.0 | 70-120 | 3.65 | 20 | WG544259 |
| trans-1,2-Dichloroethene | mg/kg | 0.0256 | 0.0256 | 102. | 61-133 | 0 | 20 | WG544259 |

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Quality Assurance Report
Level II

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L524386

| Analyte | Units | Laboratory Result | Control Ref | Sample %Rec | Duplicate Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------|-------------|-------------|-----------------|-------|-------|----------|
| trans-1,3-Dichloropropene | mg/kg | 0.0230 | 0.0234 | 92.0 | 70-135 | 1.68 | 20 | WG544259 |
| Trichloroethene | mg/kg | 0.0248 | 0.0256 | 99.0 | 71-126 | 3.10 | 20 | WG544259 |
| Trichlorofluoromethane | mg/kg | 0.0228 | 0.0227 | 91.0 | 52-147 | 0.570 | 20 | WG544259 |
| Vinyl chloride | mg/kg | 0.0270 | 0.0285 | 108. | 50-151 | 5.29 | 20 | WG544259 |
| Xylenes, Total | mg/kg | 0.0758 | 0.0778 | 101. | 74-127 | 2.68 | 20 | WG544259 |
| 4-Bromofluorobenzene | | | | 103.5 | 59-140 | | | WG544259 |
| Dibromofluoromethane | | | | 103.9 | 63-139 | | | WG544259 |
| Toluene-d8 | | | | 101.4 | 84-116 | | | WG544259 |
| a,a,a-Trifluorotoluene | | | | 103.2 | 80-118 | | | WG544259 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.47 | 5.40 | 99.0 | 67-135 | 1.30 | 20 | WG544284 |
| a,a,a-Trifluorotoluene(FID) | | | | 102.7 | 59-128 | | | WG544284 |
| Corrosivity | | 6.30 | 6.30 | 100. | 97.98-102.02 | 0 | 10 | WG544373 |
| pH | su | 6.30 | 6.30 | 100. | 97.98-102.02 | 0 | 20 | WG544378 |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.0233 | 0.0255 | 93.0 | 73-134 | 8.70 | 20 | WG544601 |
| 1,1,1-Trichloroethane | mg/kg | 0.0229 | 0.0249 | 91.0 | 62-135 | 8.42 | 20 | WG544601 |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.0229 | 0.0246 | 92.0 | 74-129 | 6.85 | 20 | WG544601 |
| 1,1,2-Trichloroethane | mg/kg | 0.0232 | 0.0246 | 93.0 | 77-124 | 5.93 | 20 | WG544601 |
| 1,1-Dichloroethane | mg/kg | 0.0219 | 0.0235 | 88.0 | 61-134 | 7.12 | 20 | WG544601 |
| 1,1-Dichloroethene | mg/kg | 0.0225 | 0.0239 | 90.0 | 53-136 | 5.92 | 20 | WG544601 |
| 1,1-Dichloropropene | mg/kg | 0.0224 | 0.0242 | 90.0 | 63-132 | 7.59 | 20 | WG544601 |
| 1,2,3-Trichlorobenzene | mg/kg | 0.0243 | 0.0240 | 97.0 | 62-146 | 0.880 | 20 | WG544601 |
| 1,2,3-Trichloropropane | mg/kg | 0.0236 | 0.0255 | 94.0 | 70-133 | 7.70 | 20 | WG544601 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.0246 | 0.0248 | 98.0 | 61-148 | 0.710 | 20 | WG544601 |
| 1,2,4-Trimethylbenzene | mg/kg | 0.0228 | 0.0244 | 91.0 | 68-135 | 6.39 | 20 | WG544601 |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 0.0230 | 0.0244 | 92.0 | 61-134 | 6.10 | 21 | WG544601 |
| 1,2-Dibromoethane | mg/kg | 0.0234 | 0.0258 | 94.0 | 76-127 | 9.60 | 20 | WG544601 |
| 1,2-Dichlorobenzene | mg/kg | 0.0236 | 0.0238 | 94.0 | 77-123 | 1.02 | 20 | WG544601 |
| 1,2-Dichloroethane | mg/kg | 0.0229 | 0.0247 | 92.0 | 58-141 | 7.59 | 20 | WG544601 |
| 1,2-Dichloropropane | mg/kg | 0.0225 | 0.0237 | 90.0 | 71-128 | 5.03 | 20 | WG544601 |
| 1,3,5-Trimethylbenzene | mg/kg | 0.0228 | 0.0244 | 91.0 | 71-133 | 6.70 | 20 | WG544601 |
| 1,3-Dichlorobenzene | mg/kg | 0.0224 | 0.0238 | 89.0 | 71-132 | 6.48 | 20 | WG544601 |
| 1,3-Dichloropropane | mg/kg | 0.0225 | 0.0242 | 90.0 | 76-120 | 7.12 | 20 | WG544601 |
| 1,4-Dichlorobenzene | mg/kg | 0.0221 | 0.0228 | 88.0 | 72-123 | 3.09 | 20 | WG544601 |
| 2,2-Dichloropropane | mg/kg | 0.0223 | 0.0236 | 89.0 | 50-147 | 5.63 | 20 | WG544601 |
| 2-Butanone (MEK) | mg/kg | 0.124 | 0.128 | 99.0 | 51-131 | 3.51 | 25 | WG544601 |
| 2-Chloroethyl vinyl ether | mg/kg | 0.124 | 0.131 | 99.0 | 0-188 | 5.73 | 39 | WG544601 |
| 2-Chlorotoluene | mg/kg | 0.0226 | 0.0245 | 90.0 | 73-128 | 7.84 | 20 | WG544601 |
| 4-Chlorotoluene | mg/kg | 0.0221 | 0.0236 | 88.0 | 72-129 | 6.95 | 20 | WG544601 |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | 0.124 | 0.134 | 99.0 | 61-143 | 7.32 | 23 | WG544601 |
| Acetone | mg/kg | 0.106 | 0.116 | 85.0 | 44-140 | 8.88 | 25 | WG544601 |
| Acrylonitrile | mg/kg | 0.113 | 0.123 | 91.0 | 55-143 | 8.38 | 20 | WG544601 |
| Benzene | mg/kg | 0.0216 | 0.0231 | 86.0 | 65-128 | 6.57 | 20 | WG544601 |
| Bromobenzene | mg/kg | 0.0222 | 0.0236 | 89.0 | 75-123 | 5.98 | 20 | WG544601 |
| Bromodichloromethane | mg/kg | 0.0238 | 0.0253 | 95.0 | 66-126 | 6.28 | 20 | WG544601 |
| Bromoform | mg/kg | 0.0235 | 0.0250 | 94.0 | 64-139 | 6.43 | 20 | WG544601 |
| Bromomethane | mg/kg | 0.0234 | 0.0255 | 93.0 | 41-175 | 8.96 | 20 | WG544601 |
| Carbon tetrachloride | mg/kg | 0.0214 | 0.0234 | 86.0 | 60-140 | 8.84 | 20 | WG544601 |
| Chlorobenzene | mg/kg | 0.0228 | 0.0243 | 91.0 | 75-125 | 6.58 | 20 | WG544601 |
| Chlorodibromomethane | mg/kg | 0.0235 | 0.0258 | 94.0 | 72-137 | 9.13 | 20 | WG544601 |
| Chloroethane | mg/kg | 0.0237 | 0.0260 | 95.0 | 44-159 | 9.17 | 20 | WG544601 |
| Chloroform | mg/kg | 0.0222 | 0.0240 | 89.0 | 63-123 | 8.05 | 20 | WG544601 |

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| Analyte | Units | Laboratory Result | Control Ref | Sample %Rec | Duplicate Limit | RPD | Limit | Batch |
|-------------------------------|-------|-------------------|-------------|-------------|-----------------|-------|-------|----------|
| Chloromethane | mg/kg | 0.0213 | 0.0227 | 85.0 | 42-149 | 6.35 | 20 | WG544601 |
| cis-1,2-Dichloroethene | mg/kg | 0.0221 | 0.0234 | 88.0 | 71-129 | 5.84 | 20 | WG544601 |
| cis-1,3-Dichloropropene | mg/kg | 0.0242 | 0.0252 | 97.0 | 73-132 | 4.43 | 20 | WG544601 |
| Di-isopropyl ether | mg/kg | 0.0213 | 0.0227 | 85.0 | 59-143 | 6.18 | 20 | WG544601 |
| Dibromomethane | mg/kg | 0.0229 | 0.0249 | 91.0 | 70-130 | 8.70 | 20 | WG544601 |
| Dichlorodifluoromethane | mg/kg | 0.0319 | 0.0347 | 128. | 26-186 | 8.35 | 22 | WG544601 |
| Ethylbenzene | mg/kg | 0.0229 | 0.0247 | 92.0 | 74-128 | 7.49 | 20 | WG544601 |
| Hexachloro-1,3-butadiene | mg/kg | 0.0240 | 0.0246 | 96.0 | 65-137 | 2.47 | 20 | WG544601 |
| Isopropylbenzene | mg/kg | 0.0228 | 0.0247 | 91.0 | 73-130 | 8.03 | 20 | WG544601 |
| Methyl tert-butyl ether | mg/kg | 0.0233 | 0.0246 | 93.0 | 44-148 | 5.46 | 20 | WG544601 |
| Methylene Chloride | mg/kg | 0.0198 | 0.0210 | 79.0 | 57-129 | 5.99 | 20 | WG544601 |
| n-Butylbenzene | mg/kg | 0.0235 | 0.0251 | 94.0 | 60-145 | 6.95 | 20 | WG544601 |
| n-Hexane | mg/kg | 0.0218 | 0.0239 | 87.0 | 28-169 | 8.91 | 20 | WG544601 |
| n-Propylbenzene | mg/kg | 0.0223 | 0.0240 | 89.0 | 71-132 | 7.29 | 20 | WG544601 |
| Naphthalene | mg/kg | 0.0256 | 0.0253 | 102. | 61-142 | 1.12 | 20 | WG544601 |
| p-Isopropyltoluene | mg/kg | 0.0231 | 0.0250 | 92.0 | 67-138 | 7.79 | 20 | WG544601 |
| sec-Butylbenzene | mg/kg | 0.0229 | 0.0245 | 92.0 | 71-134 | 6.70 | 20 | WG544601 |
| Styrene | mg/kg | 0.0237 | 0.0255 | 95.0 | 76-133 | 7.51 | 20 | WG544601 |
| tert-Butylbenzene | mg/kg | 0.0233 | 0.0250 | 93.0 | 72-132 | 7.06 | 20 | WG544601 |
| Tetrachloroethene | mg/kg | 0.0231 | 0.0252 | 92.0 | 65-135 | 8.89 | 20 | WG544601 |
| Toluene | mg/kg | 0.0215 | 0.0231 | 86.0 | 70-120 | 7.10 | 20 | WG544601 |
| trans-1,2-Dichloroethene | mg/kg | 0.0219 | 0.0236 | 88.0 | 61-133 | 7.62 | 20 | WG544601 |
| trans-1,3-Dichloropropene | mg/kg | 0.0238 | 0.0258 | 95.0 | 70-135 | 8.02 | 20 | WG544601 |
| Trichloroethene | mg/kg | 0.0228 | 0.0248 | 91.0 | 71-126 | 8.44 | 20 | WG544601 |
| Trichlorofluoromethane | mg/kg | 0.0240 | 0.0269 | 96.0 | 52-147 | 11.5 | 20 | WG544601 |
| Vinyl chloride | mg/kg | 0.0232 | 0.0250 | 93.0 | 50-151 | 7.30 | 20 | WG544601 |
| Xylenes, Total | mg/kg | 0.0673 | 0.0729 | 90.0 | 74-127 | 7.92 | 20 | WG544601 |
| 4-Bromofluorobenzene | | | | 99.01 | 59-140 | | | WG544601 |
| Dibromofluoromethane | | | | 101.6 | 63-139 | | | WG544601 |
| Toluene-d8 | | | | 101.7 | 84-116 | | | WG544601 |
| a,a,a-Trifluorotoluene | | | | 103.7 | 80-118 | | | WG544601 |
| Chromium, Hexavalent | mg/kg | 101. | 98.0 | 76.0 | 50-150 | 3.02 | 20 | WG544563 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.21 | 5.33 | 95.0 | 67-135 | 2.30 | 20 | WG544629 |
| a,a,a-Trifluorotoluene(FID) | | | | 95.17 | 59-128 | | | WG544629 |
| Reactive Sulf.(SW846 7.3.4.1) | mg/kg | 94.0 | 82.0 | 94.0 | 70-130 | 13.6 | 20 | WG544761 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.240 | 0.244 | 72.0 | 50-141 | 1.65 | 46 | WG544706 |
| 2,4,6-Trichlorophenol | mg/kg | 0.285 | 0.281 | 86.0 | 46-110 | 1.39 | 32 | WG544706 |
| 2,4-Dichlorophenol | mg/kg | 0.277 | 0.278 | 83.0 | 47-107 | 0.306 | 30 | WG544706 |
| 2,4-Dimethylphenol | mg/kg | 0.262 | 0.263 | 79.0 | 55-173 | 0.350 | 59 | WG544706 |
| 2,4-Dinitrophenol | mg/kg | 0.258 | 0.270 | 77.0 | 10-127 | 4.66 | 58 | WG544706 |
| 2,4-Dinitrotoluene | mg/kg | 0.303 | 0.301 | 91.0 | 49-119 | 0.596 | 35 | WG544706 |
| 2,6-Dinitrotoluene | mg/kg | 0.277 | 0.284 | 83.0 | 52-114 | 2.55 | 31 | WG544706 |
| 2-Chloronaphthalene | mg/kg | 0.250 | 0.254 | 75.0 | 45-110 | 1.35 | 32 | WG544706 |
| 2-Chlorophenol | mg/kg | 0.226 | 0.238 | 68.0 | 40-105 | 4.94 | 33 | WG544706 |
| 2-Nitrophenol | mg/kg | 0.265 | 0.263 | 79.0 | 45-110 | 0.817 | 33 | WG544706 |
| 3,3-Dichlorobenzidine | mg/kg | 0.201 | 0.191 | 60.0 | 31-105 | 4.90 | 37 | WG544706 |
| 4,6-Dinitro-2-methylphenol | mg/kg | 0.242 | 0.241 | 72.0 | 20-117 | 0.100 | 49 | WG544706 |
| 4-Bromophenyl-phenylether | mg/kg | 0.297 | 0.285 | 89.0 | 37-114 | 4.05 | 38 | WG544706 |
| 4-Chlorophenyl-phenylether | mg/kg | 0.287 | 0.298 | 86.0 | 47-110 | 3.67 | 32 | WG544706 |
| 4-Chlorophenyl-phenylether | mg/kg | 0.300 | 0.277 | 90.0 | 50-116 | 8.06 | 33 | WG544706 |
| 4-Nitrophenol | mg/kg | 0.249 | 0.245 | 75.0 | 30-119 | 1.67 | 44 | WG544706 |

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YOUR LAB OF CHOICE

Encana
Brett Middleton / Brad Kieding
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Quality Assurance Report
Level II

L524386

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

July 13, 2011

| Analyte | Units | Laboratory Result | Control Ref | Sample %Rec | Duplicate Limit | RPD | Limit | Batch |
|-----------------------------|--------|-------------------|-------------|-------------|-----------------|--------|-------|----------|
| Acenaphthene | mg/kg | 0.273 | 0.261 | 82.0 | 41-114 | 4.46 | 37 | WG544706 |
| Acenaphthylene | mg/kg | 0.286 | 0.270 | 86.0 | 41-119 | 5.73 | 39 | WG544706 |
| Anthracene | mg/kg | 0.268 | 0.259 | 81.0 | 45-118 | 3.49 | 36 | WG544706 |
| Benzidine | mg/kg | 0.00467 | 0.00212 | 1.00 | 0-13 | 75.1* | 50 | WG544706 |
| Benzo(a)anthracene | mg/kg | 0.281 | 0.272 | 84.0 | 44-118 | 3.49 | 37 | WG544706 |
| Benzo(a)pyrene | mg/kg | 0.278 | 0.281 | 83.0 | 44-116 | 1.09 | 36 | WG544706 |
| Benzo(b)fluoranthene | mg/kg | 0.288 | 0.287 | 86.0 | 37-122 | 0.251 | 42 | WG544706 |
| Benzo(g,h,i)perylene | mg/kg | 0.304 | 0.301 | 91.0 | 32-132 | 1.02 | 50 | WG544706 |
| Benzo(k)fluoranthene | mg/kg | 0.270 | 0.264 | 81.0 | 35-123 | 2.37 | 44 | WG544706 |
| Benzylbutyl phthalate | mg/kg | 0.327 | 0.341 | 98.0 | 47-130 | 4.23 | 42 | WG544706 |
| Bis(2-chlorethoxy)methane | mg/kg | 0.242 | 0.263 | 72.0 | 46-115 | 8.55 | 34 | WG544706 |
| Bis(2-chloroethyl)ether | mg/kg | 0.222 | 0.229 | 67.0 | 36-113 | 3.07 | 39 | WG544706 |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.244 | 0.251 | 73.0 | 42-112 | 2.77 | 35 | WG544706 |
| Bis(2-ethylhexyl)phthalate | mg/kg | 0.328 | 0.335 | 98.0 | 46-131 | 2.08 | 43 | WG544706 |
| Chrysene | mg/kg | 0.273 | 0.273 | 82.0 | 44-118 | 0.0322 | 37 | WG544706 |
| Di-n-butyl phthalate | mg/kg | 0.285 | 0.276 | 86.0 | 46-133 | 3.36 | 44 | WG544706 |
| Di-n-octyl phthalate | mg/kg | 0.313 | 0.324 | 94.0 | 42-130 | 3.58 | 44 | WG544706 |
| Dibenz(a,h)anthracene | mg/kg | 0.328 | 0.327 | 98.0 | 34-127 | 0.348 | 47 | WG544706 |
| Diethyl phthalate | mg/kg | 0.315 | 0.304 | 95.0 | 53-119 | 3.60 | 33 | WG544706 |
| Dimethyl phthalate | mg/kg | 0.293 | 0.290 | 88.0 | 54-116 | 0.864 | 31 | WG544706 |
| Fluoranthene | mg/kg | 0.282 | 0.276 | 85.0 | 45-122 | 2.11 | 38 | WG544706 |
| Fluorene | mg/kg | 0.301 | 0.291 | 90.0 | 43-118 | 3.38 | 38 | WG544706 |
| Hexachloro-1,3-butadiene | mg/kg | 0.284 | 0.286 | 85.0 | 56-134 | 0.668 | 39 | WG544706 |
| Hexachlorobenzene | mg/kg | 0.275 | 0.270 | 83.0 | 43-123 | 1.91 | 40 | WG544706 |
| Hexachlorocyclopentadiene | mg/kg | 0.207 | 0.196 | 62.0 | 20-113 | 5.13 | 47 | WG544706 |
| Hexachloroethane | mg/kg | 0.219 | 0.229 | 66.0 | 34-101 | 4.53 | 33 | WG544706 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.313 | 0.309 | 94.0 | 35-128 | 1.37 | 47 | WG544706 |
| Isophorone | mg/kg | 0.210 | 0.220 | 63.0 | 43-105 | 4.84 | 31 | WG544706 |
| n-Nitrosodi-n-propylamine | mg/kg | 0.256 | 0.271 | 77.0 | 37-121 | 5.64 | 42 | WG544706 |
| n-Nitrosodimethylamine | mg/kg | 0.179 | 0.185 | 54.0 | 25-132 | 3.34 | 54 | WG544706 |
| n-Nitrosodiphenylamine | mg/kg | 0.262 | 0.269 | 78.0 | 45-121 | 2.74 | 38 | WG544706 |
| Naphthalene | mg/kg | 0.240 | 0.245 | 72.0 | 32-144 | 1.91 | 56 | WG544706 |
| Nitrobenzene | mg/kg | 0.244 | 0.247 | 73.0 | 33-114 | 1.26 | 41 | WG544706 |
| Pentachlorophenol | mg/kg | 0.232 | 0.233 | 70.0 | 33-121 | 0.504 | 44 | WG544706 |
| Phenanthrene | mg/kg | 0.271 | 0.276 | 81.0 | 43-115 | 1.89 | 36 | WG544706 |
| Phenol | mg/kg | 0.375 | 0.377 | 113* | 43-106 | 0.484 | 31 | WG544706 |
| Pyrene | mg/kg | 0.296 | 0.296 | 89.0 | 41-123 | 0.105 | 41 | WG544706 |
| 2,4,6-Tribromophenol | | | | 96.17 | 25-137 | | | WG544706 |
| 2-Fluorobiphenyl | | | | 79.56 | 30-120 | | | WG544706 |
| 2-Fluorophenol | | | | 63.26 | 26-130 | | | WG544706 |
| Nitrobenzene-d5 | | | | 75.59 | 18-119 | | | WG544706 |
| Phenol-d5 | | | | 76.34 | 37-141 | | | WG544706 |
| p-Terphenyl-d14 | | | | 86.02 | 23-143 | | | WG544706 |
| ORP | mV | 220. | 220. | 96.0 | 95.6-104.37 | 0 | 20 | WG544368 |
| Specific Conductance | umhos/ | 440. | 440. | 99.0 | 85-115 | 0 | 20 | WG545040 |
| TPH (GC/FID) High Fraction | ppm | 50.7 | 49.7 | 84.0 | 50-150 | 1.99 | 25 | WG544419 |
| | | | | 74.55 | 50-150 | | | WG544419 |
| Ethanol | mg/kg | 0.538 | 0.515 | 108. | 70-130 | 4.38 | 20 | WG545094 |
| Methanol | mg/kg | 0.490 | 0.461 | 98.0 | 70-130 | 6.09 | 20 | WG545094 |

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YOUR LAB OF CHOICE

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Quality Assurance Report
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 1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

July 13, 2011

| Analyte | Units | Laboratory Control Sample Duplicate | | Limit | RPD | Limit | Batch | |
|-----------------------------|--------|-------------------------------------|---------|-------|--------|--------|------------|----------|
| | | Result | Ref | | | | | |
| Ignitability | Deg. F | 82.0 | 84.0 | 100. | 93-107 | 2.41 | 20 | WG545283 |
| Matrix Spike | | | | | | | | |
| Analyte | Units | MS Res | Ref Res | TV | % Rec | Limit | Ref Samp | Batch |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.0172 | 0 | .025 | 13.7* | 29-145 | L523674-01 | WG544259 |
| 1,1,1-Trichloroethane | mg/kg | 0.0537 | 0 | .025 | 42.9 | 23-147 | L523674-01 | WG544259 |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.0106 | 0 | .025 | 8.50* | 18-150 | L523674-01 | WG544259 |
| 1,1,2-Trichloroethane | mg/kg | 0.0190 | 0 | .025 | 15.2* | 35-140 | L523674-01 | WG544259 |
| 1,1-Dichloroethane | mg/kg | 0.0530 | 0 | .025 | 42.4 | 24-148 | L523674-01 | WG544259 |
| 1,1-Dichloroethene | mg/kg | 0.0463 | 0 | .025 | 37.1 | 10-149 | L523674-01 | WG544259 |
| 1,1-Dichloropropene | mg/kg | 0.0364 | 0 | .025 | 29.2 | 10-141 | L523674-01 | WG544259 |
| 1,2,3-Trichlorobenzene | mg/kg | 0.00341 | 0 | .025 | 2.73* | 10-129 | L523674-01 | WG544259 |
| 1,2,3-Trichloropropane | mg/kg | 0.0102 | 0 | .025 | 8.17* | 30-148 | L523674-01 | WG544259 |
| 1,2,4-Trichlorobenzene | mg/kg | 0 | 0 | .025 | 0* | 10-119 | L523674-01 | WG544259 |
| 1,2,4-Trimethylbenzene | mg/kg | 0.00234 | 0 | .025 | 1.88* | 10-145 | L523674-01 | WG544259 |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 0 | 0 | .025 | 0* | 19-145 | L523674-01 | WG544259 |
| 1,2-Dibromoethane | mg/kg | 0.0120 | 0 | .025 | 9.60* | 24-145 | L523674-01 | WG544259 |
| 1,2-Dichlorobenzene | mg/kg | 0.0115 | 0 | .025 | 9.23* | 12-130 | L523674-01 | WG544259 |
| 1,2-Dichloroethane | mg/kg | 0.0370 | 0 | .025 | 29.6 | 21-155 | L523674-01 | WG544259 |
| 1,2-Dichloropropane | mg/kg | 0.0311 | 0 | .025 | 24.9* | 28-144 | L523674-01 | WG544259 |
| 1,3,5-Trimethylbenzene | mg/kg | 0.00401 | 0 | .025 | 3.21* | 10-135 | L523674-01 | WG544259 |
| 1,3-Dichlorobenzene | mg/kg | 0.00242 | 0 | .025 | 1.94* | 10-129 | L523674-01 | WG544259 |
| 1,3-Dichloropropane | mg/kg | 0.0160 | 0 | .025 | 12.8* | 31-137 | L523674-01 | WG544259 |
| 1,4-Dichlorobenzene | mg/kg | 0.0207 | 0 | .025 | 16.5 | 10-121 | L523674-01 | WG544259 |
| 2,2-Dichloropropane | mg/kg | 0.0592 | 0 | .025 | 47.4 | 18-144 | L523674-01 | WG544259 |
| 2-Butanone (MEK) | mg/kg | 0.252 | 0 | .125 | 40.3 | 21-143 | L523674-01 | WG544259 |
| 2-Chloroethyl vinyl ether | mg/kg | 0.0768 | 0 | .125 | 12.3 | 0-176 | L523674-01 | WG544259 |
| 2-Chlorotoluene | mg/kg | 0.00521 | 0 | .025 | 4.17* | 10-132 | L523674-01 | WG544259 |
| 4-Chlorotoluene | mg/kg | 0.00423 | 0 | .025 | 3.38* | 10-129 | L523674-01 | WG544259 |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | 0.0749 | 0 | .125 | 12.0* | 31-151 | L523674-01 | WG544259 |
| Acetone | mg/kg | 0.403 | 0 | .125 | 64.4 | 13-158 | L523674-01 | WG544259 |
| Acrylonitrile | mg/kg | 0.266 | 0 | .125 | 42.5 | 20-154 | L523674-01 | WG544259 |
| Benzene | mg/kg | 0.0238 | 0 | .025 | 19.0 | 16-143 | L523674-01 | WG544259 |
| Bromobenzene | mg/kg | 0.00605 | 0 | .025 | 4.84* | 14-135 | L523674-01 | WG544259 |
| Bromodichloromethane | mg/kg | 0.0297 | 0 | .025 | 23.8* | 27-139 | L523674-01 | WG544259 |
| Bromoform | mg/kg | 0.0140 | 0 | .025 | 11.2* | 21-144 | L523674-01 | WG544259 |
| Bromomethane | mg/kg | 0.0772 | 0 | .025 | 61.8 | 0-180 | L523674-01 | WG544259 |
| Carbon tetrachloride | mg/kg | 0.0516 | 0 | .025 | 41.3 | 12-149 | L523674-01 | WG544259 |
| Chlorobenzene | mg/kg | 0.00952 | 0 | .025 | 7.62* | 17-134 | L523674-01 | WG544259 |
| Chlorodibromomethane | mg/kg | 0.0194 | 0 | .025 | 15.5* | 28-147 | L523674-01 | WG544259 |
| Chloroethane | mg/kg | 0.0634 | 0 | .025 | 50.7 | 0-172 | L523674-01 | WG544259 |
| Chloroform | mg/kg | 0.0482 | 0 | .025 | 38.6 | 28-138 | L523674-01 | WG544259 |
| Chloromethane | mg/kg | 0.113 | 0 | .025 | 90.6 | 10-158 | L523674-01 | WG544259 |
| cis-1,2-Dichloroethene | mg/kg | 0.0395 | 0 | .025 | 31.6 | 21-147 | L523674-01 | WG544259 |
| cis-1,3-Dichloropropene | mg/kg | 0.0186 | 0 | .025 | 14.9* | 17-145 | L523674-01 | WG544259 |
| Di-isopropyl ether | mg/kg | 0.0309 | 0 | .025 | 24.7* | 31-153 | L523674-01 | WG544259 |
| Dibromomethane | mg/kg | 0.0318 | 0 | .025 | 25.5 | 24-147 | L523674-01 | WG544259 |
| Dichlorodifluoromethane | mg/kg | 0.0981 | 0 | .025 | 78.5 | 0-192 | L523674-01 | WG544259 |
| Ethylbenzene | mg/kg | 0.0110 | 0 | .025 | 8.83* | 12-137 | L523674-01 | WG544259 |
| Hexachloro-1,3-butadiene | mg/kg | 0.0243 | 0 | .025 | 19.4 | 10-123 | L523674-01 | WG544259 |
| Isopropylbenzene | mg/kg | 0.00782 | 0 | .025 | 6.26* | 14-134 | L523674-01 | WG544259 |
| Methyl tert-butyl ether | mg/kg | 0.0519 | 0 | .025 | 41.5 | 21-157 | L523674-01 | WG544259 |
| Methylene Chloride | mg/kg | 0.0701 | 0 | .025 | 56.0 | 12-149 | L523674-01 | WG544259 |
| n-Butylbenzene | mg/kg | 0.0160 | 0 | .025 | 12.8 | 10-130 | L523674-01 | WG544259 |
| n-Hexane | mg/kg | 0.0354 | 0 | .025 | 28.3 | 10-129 | L523674-01 | WG544259 |
| n-Propylbenzene | mg/kg | 0.00481 | 0 | .025 | 3.85* | 10-130 | L523674-01 | WG544259 |
| Naphthalene | mg/kg | 0.00495 | 0 | .025 | 3.96 | 0-146 | L523674-01 | WG544259 |
| p-Isopropyltoluene | mg/kg | 0.00376 | 0 | .025 | 3.01* | 10-131 | L523674-01 | WG544259 |

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Tax I.D. 62-0814289

Est. 1970

July 13, 2011

| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------------|----------|------|--------|--------|------------|----------|
| | | MS Res | Ref Res | TV | % Rec | | | |
| sec-Butylbenzene | mg/kg | 0.00452 | 0 | .025 | 3.62* | 10-134 | L523674-01 | WG544259 |
| Styrene | mg/kg | 0.00340 | 0 | .025 | 2.72* | 10-140 | L523674-01 | WG544259 |
| tert-Butylbenzene | mg/kg | 0.00585 | 0 | .025 | 4.68* | 11-137 | L523674-01 | WG544259 |
| Tetrachloroethene | mg/kg | 0.0194 | 0 | .025 | 15.6 | 10-131 | L523674-01 | WG544259 |
| Toluene | mg/kg | 0.0173 | 0 | .025 | 13.9 | 12-136 | L523674-01 | WG544259 |
| trans-1,2-Dichloroethene | mg/kg | 0.0412 | 0 | .025 | 32.9 | 10-143 | L523674-01 | WG544259 |
| trans-1,3-Dichloropropene | mg/kg | 0.0147 | 0 | .025 | 11.8* | 16-147 | L523674-01 | WG544259 |
| Trichloroethene | mg/kg | 0.0269 | 0 | .025 | 21.5 | 10-155 | L523674-01 | WG544259 |
| Trichlorofluoromethane | mg/kg | 0.0573 | 0 | .025 | 45.8 | 10-154 | L523674-01 | WG544259 |
| Vinyl chloride | mg/kg | 0.0709 | 0 | .025 | 56.7 | 10-159 | L523674-01 | WG544259 |
| Xylenes, Total | mg/kg | 0.0202 | 0 | .075 | 5.38* | 10-138 | L523674-01 | WG544259 |
| | | | | | 26.55* | 59-140 | | WG544259 |
| 4-Bromofluorobenzene | | | | | 171.8* | 63-139 | | WG544259 |
| Dibromofluoromethane | | | | | 88.51 | 84-116 | | WG544259 |
| Toluene-d8 | | | | | 96.84 | 80-118 | | WG544259 |
| a,a,a-Trifluorotoluene | | | | | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 265. | 30.6 | 5.5 | 76.1 | 55-109 | L523846-03 | WG544284 |
| a,a,a-Trifluorotoluene(FID) | | | | | 97.09 | 59-128 | | WG544284 |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.103 | 0 | .025 | 82.0 | 29-145 | L524672-01 | WG544601 |
| 1,1,1-Trichloroethane | mg/kg | 0.0966 | 0.000232 | .025 | 77.1 | 23-147 | L524672-01 | WG544601 |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.0903 | 0.00294 | .025 | 69.9 | 18-150 | L524672-01 | WG544601 |
| 1,1,2-Trichloroethane | mg/kg | 0.113 | 0.00901 | .025 | 82.8 | 35-140 | L524672-01 | WG544601 |
| 1,1-Dichloroethane | mg/kg | 0.0942 | 0.000430 | .025 | 75.0 | 24-148 | L524672-01 | WG544601 |
| 1,1-Dichloroethene | mg/kg | 0.0776 | 0 | .025 | 62.1 | 10-149 | L524672-01 | WG544601 |
| 1,1-Dichloropropene | mg/kg | 0.0684 | 0 | .025 | 54.7 | 10-141 | L524672-01 | WG544601 |
| 1,2,3-Trichlorobenzene | mg/kg | 0.0601 | 0.00176 | .025 | 46.7 | 10-129 | L524672-01 | WG544601 |
| 1,2,3-Trichloropropane | mg/kg | 0.104 | 0.00179 | .025 | 81.8 | 30-148 | L524672-01 | WG544601 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.0716 | 0.000862 | .025 | 56.6 | 10-119 | L524672-01 | WG544601 |
| 1,2,4-Trimethylbenzene | mg/kg | 0.0893 | 0.0162 | .025 | 58.5 | 10-145 | L524672-01 | WG544601 |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 0.131 | 0.00405 | .025 | 102. | 19-145 | L524672-01 | WG544601 |
| 1,2-Dibromoethane | mg/kg | 0.0974 | 0 | .025 | 77.9 | 24-145 | L524672-01 | WG544601 |
| 1,2-Dichlorobenzene | mg/kg | 0.110 | 0 | .025 | 87.9 | 12-130 | L524672-01 | WG544601 |
| 1,2-Dichloroethane | mg/kg | 0.0943 | 0.00180 | .025 | 74.0 | 21-155 | L524672-01 | WG544601 |
| 1,2-Dichloropropane | mg/kg | 0.0950 | 0.00217 | .025 | 74.2 | 28-144 | L524672-01 | WG544601 |
| 1,3,5-Trimethylbenzene | mg/kg | 0.0840 | 0.00798 | .025 | 60.8 | 10-135 | L524672-01 | WG544601 |
| 1,3-Dichlorobenzene | mg/kg | 0.0703 | 0.000223 | .025 | 56.0 | 10-129 | L524672-01 | WG544601 |
| 1,3-Dichloropropane | mg/kg | 0.0975 | 0.000348 | .025 | 77.7 | 31-137 | L524672-01 | WG544601 |
| 1,4-Dichlorobenzene | mg/kg | 0.110 | 0.000526 | .025 | 87.7 | 10-121 | L524672-01 | WG544601 |
| 2,2-Dichloropropane | mg/kg | 0.106 | 0.000429 | .025 | 84.3 | 18-144 | L524672-01 | WG544601 |
| 2-Butanone (MEK) | mg/kg | 0.545 | 0.00521 | .125 | 86.4 | 21-143 | L524672-01 | WG544601 |
| 2-Chloroethyl vinyl ether | mg/kg | 0.502 | 0.000888 | .125 | 80.1 | 0-176 | L524672-01 | WG544601 |
| 2-Chlorotoluene | mg/kg | 0.0784 | 0.000966 | .025 | 62.0 | 10-132 | L524672-01 | WG544601 |
| 4-Chlorotoluene | mg/kg | 0.0813 | 0.164 | .025 | 0* | 10-129 | L524672-01 | WG544601 |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | 0.590 | 0 | .125 | 94.5 | 31-151 | L524672-01 | WG544601 |
| Acetone | mg/kg | 0.764 | 0.234 | .125 | 84.8 | 13-158 | L524672-01 | WG544601 |
| Acrylonitrile | mg/kg | 0.559 | 0.0281 | .125 | 85.0 | 20-154 | L524672-01 | WG544601 |
| Benzene | mg/kg | 0.0940 | 0.0170 | .025 | 61.6 | 16-143 | L524672-01 | WG544601 |
| Bromobenzene | mg/kg | 0.0822 | 0.00110 | .025 | 64.9 | 14-135 | L524672-01 | WG544601 |
| Bromodichloromethane | mg/kg | 0.0958 | 0.000340 | .025 | 76.3 | 27-139 | L524672-01 | WG544601 |
| Bromoform | mg/kg | 0.0933 | 0 | .025 | 74.7 | 21-144 | L524672-01 | WG544601 |
| Bromomethane | mg/kg | 0.0560 | 0 | .025 | 44.8 | 0-180 | L524672-01 | WG544601 |
| Carbon tetrachloride | mg/kg | 0.0802 | 0.00107 | .025 | 63.3 | 12-149 | L524672-01 | WG544601 |
| Chlorobenzene | mg/kg | 0.0908 | 0.000150 | .025 | 72.5 | 17-134 | L524672-01 | WG544601 |
| Chlorodibromomethane | mg/kg | 0.0987 | 0 | .025 | 79.0 | 28-147 | L524672-01 | WG544601 |
| Chloroethane | mg/kg | 0.0659 | 0 | .025 | 52.7 | 0-172 | L524672-01 | WG544601 |
| Chloroform | mg/kg | 0.101 | 0.00112 | .025 | 79.7 | 28-138 | L524672-01 | WG544601 |

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Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

L524386

July 13, 2011

| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------------|----------|------|-------|--------|------------|----------|
| | | MS Res | Ref Res | TV | % Rec | | | |
| Chloromethane | mg/kg | 0.0451 | 0.000713 | .025 | 35.5 | 10-158 | L524672-01 | WG544601 |
| cis-1,2-Dichloroethene | mg/kg | 0.0874 | 0 | .025 | 69.9 | 21-147 | L524672-01 | WG544601 |
| cis-1,3-Dichloropropene | mg/kg | 0.0944 | 0 | .025 | 75.5 | 17-145 | L524672-01 | WG544601 |
| Di-isopropyl ether | mg/kg | 0.106 | 0 | .025 | 84.6 | 31-153 | L524672-01 | WG544601 |
| Dibromomethane | mg/kg | 0.0871 | 0 | .025 | 69.7 | 24-147 | L524672-01 | WG544601 |
| Dichlorodifluoromethane | mg/kg | 0.0822 | 0 | .025 | 65.8 | 0-192 | L524672-01 | WG544601 |
| Ethylbenzene | mg/kg | 0.0946 | 0.00720 | .025 | 70.0 | 12-137 | L524672-01 | WG544601 |
| Hexachloro-1,3-butadiene | mg/kg | 0.0476 | 0 | .025 | 38.1 | 10-123 | L524672-01 | WG544601 |
| Isopropylbenzene | mg/kg | 0.0925 | 0.00150 | .025 | 72.8 | 14-134 | L524672-01 | WG544601 |
| Methyl tert-butyl ether | mg/kg | 0.121 | 0 | .025 | 96.6 | 21-157 | L524672-01 | WG544601 |
| Methylene Chloride | mg/kg | 0.0761 | 0.000584 | .025 | 60.4 | 12-149 | L524672-01 | WG544601 |
| n-Butylbenzene | mg/kg | 0.0979 | 0.00255 | .025 | 76.3 | 10-130 | L524672-01 | WG544601 |
| n-Hexane | mg/kg | 0.0348 | 0.0107 | .025 | 19.4 | 10-129 | L524672-01 | WG544601 |
| n-Propylbenzene | mg/kg | 0.0783 | 0.00214 | .025 | 61.0 | 10-130 | L524672-01 | WG544601 |
| Naphthalene | mg/kg | 0.0997 | 0.0151 | .025 | 67.7 | 0-146 | L524672-01 | WG544601 |
| p-Isopropyltoluene | mg/kg | 0.206 | 0.189 | .025 | 13.1 | 10-131 | L524672-01 | WG544601 |
| sec-Butylbenzene | mg/kg | 0.0673 | 0.00416 | .025 | 50.5 | 10-134 | L524672-01 | WG544601 |
| Styrene | mg/kg | 0.0715 | 0.000299 | .025 | 56.9 | 10-140 | L524672-01 | WG544601 |
| tert-Butylbenzene | mg/kg | 0.0746 | 0.00358 | .025 | 56.8 | 11-137 | L524672-01 | WG544601 |
| Tetrachloroethene | mg/kg | 0.0789 | 0 | .025 | 63.1 | 10-131 | L524672-01 | WG544601 |
| Toluene | mg/kg | 0.105 | 0.0310 | .025 | 59.3 | 12-136 | L524672-01 | WG544601 |
| trans-1,2-Dichloroethene | mg/kg | 0.0616 | 0 | .025 | 49.3 | 10-143 | L524672-01 | WG544601 |
| trans-1,3-Dichloropropene | mg/kg | 0.0914 | 0.000488 | .025 | 72.7 | 16-147 | L524672-01 | WG544601 |
| Trichloroethene | mg/kg | 0.0819 | 0 | .025 | 65.5 | 10-155 | L524672-01 | WG544601 |
| Trichlorofluoromethane | mg/kg | 0.0757 | 0 | .025 | 60.5 | 10-154 | L524672-01 | WG544601 |
| Vinyl chloride | mg/kg | 0.0506 | 0 | .025 | 40.5 | 10-159 | L524672-01 | WG544601 |
| Xylenes, Total | mg/kg | 0.301 | 0.0460 | .075 | 68.0 | 10-138 | L524672-01 | WG544601 |
| 4-Bromofluorobenzene | | | | | 81.66 | 59-140 | | WG544601 |
| Dibromofluoromethane | | | | | 103.2 | 63-139 | | WG544601 |
| Toluene-d8 | | | | | 98.43 | 84-116 | | WG544601 |
| a,a,a-Trifluorotoluene | | | | | 98.18 | 80-118 | | WG544601 |
| Mercury | mg/kg | 0.252 | 0 | .25 | 101. | 70-130 | L524123-22 | WG544187 |
| Chromium, Hexavalent | mg/kg | 11.7 | 0 | 20 | 58.5 | 50-150 | L524098-02 | WG544563 |
| Mercury | mg/l | 0.00302 | 0 | .003 | 101. | 70-130 | L524139-08 | WG544656 |
| Arsenic | mg/l | 1.12 | 0 | 1.13 | 99.1 | 75-125 | L524495-05 | WG544657 |
| Barium | mg/l | 1.15 | 0 | 1.13 | 102. | 75-125 | L524495-05 | WG544657 |
| Cadmium | mg/l | 1.09 | 0 | 1.13 | 96.5 | 75-125 | L524495-05 | WG544657 |
| Chromium | mg/l | 1.11 | 0 | 1.13 | 98.2 | 75-125 | L524495-05 | WG544657 |
| Lead | mg/l | 1.10 | 0 | 1.13 | 97.3 | 75-125 | L524495-05 | WG544657 |
| Selenium | mg/l | 1.08 | 0 | 1.13 | 95.6 | 75-125 | L524495-05 | WG544657 |
| Silver | mg/l | 0.896 | 0 | 1.13 | 79.3 | 75-125 | L524495-05 | WG544657 |
| TPH (GC/FID) Low Fraction | mg/kg | 29.3 | 0 | 5.5 | 106. | 55-109 | L524706-01 | WG544629 |
| a,a,a-Trifluorotoluene(FID) | | | | | 84.23 | 59-128 | | WG544629 |
| Arsenic | mg/kg | 44.8 | 1.10 | 50 | 87.4 | 75-125 | L524469-01 | WG544349 |
| Barium | mg/kg | 114. | 65.0 | 50 | 98.0 | 75-125 | L524469-01 | WG544349 |
| Cadmium | mg/kg | 45.4 | 0 | 50 | 90.8 | 75-125 | L524469-01 | WG544349 |
| Chromium | mg/kg | 54.7 | 11.0 | 50 | 87.4 | 75-125 | L524469-01 | WG544349 |

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Quality Assurance Report
Level II

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Tax I.D. 62-0814289

Est. 1970

July 13, 2011

| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------------|---------|------|-------|--------|------------|----------|
| | | MS Res | Ref Res | TV | % Rec | | | |
| Copper | mg/kg | 52.5 | 4.31 | 50 | 96.4 | 75-125 | L524469-01 | WG544349 |
| Lead | mg/kg | 57.0 | 18.0 | 50 | 78.0 | 75-125 | L524469-01 | WG544349 |
| Nickel | mg/kg | 50.7 | 6.55 | 50 | 88.3 | 75-125 | L524469-01 | WG544349 |
| Selenium | mg/kg | 42.3 | 0 | 50 | 84.6 | 75-125 | L524469-01 | WG544349 |
| Silver | mg/kg | 46.6 | 0 | 50 | 93.2 | 75-125 | L524469-01 | WG544349 |
| Zinc | mg/kg | 80.6 | 46.0 | 50 | 69.2* | 75-125 | L524469-01 | WG544349 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.365 | 0 | .333 | 110.* | 37-104 | L524469-02 | WG544706 |
| 2,4,6-Trichlorophenol | mg/kg | 0.407 | 0 | .333 | 122. | 27-128 | L524469-02 | WG544706 |
| 2,4-Dichlorophenol | mg/kg | 0.412 | 0 | .333 | 124.* | 39-116 | L524469-02 | WG544706 |
| 2,4-Dimethylphenol | mg/kg | 0.403 | 0 | .333 | 121.* | 50-119 | L524469-02 | WG544706 |
| 2,4-Dinitrophenol | mg/kg | 0.245 | 0 | .333 | 73.7 | 10-123 | L524469-02 | WG544706 |
| 2,4-Dinitrotoluene | mg/kg | 0.429 | 0 | .333 | 129.* | 52-121 | L524469-02 | WG544706 |
| 2,6-Dinitrotoluene | mg/kg | 0.413 | 0 | .333 | 124.* | 53-114 | L524469-02 | WG544706 |
| 2-Chloronaphthalene | mg/kg | 0.383 | 0 | .333 | 115.* | 52-101 | L524469-02 | WG544706 |
| 2-Chlorophenol | mg/kg | 0.327 | 0 | .333 | 98.2 | 41-112 | L524469-02 | WG544706 |
| 2-Nitrophenol | mg/kg | 0.403 | 0 | .333 | 121.* | 23-117 | L524469-02 | WG544706 |
| 3,3-Dichlorobenzidine | mg/kg | 0.330 | 0 | .333 | 99.1 | 10-133 | L524469-02 | WG544706 |
| 4,6-Dinitro-2-methylphenol | mg/kg | 0.322 | 0 | .333 | 96.8 | 10-124 | L524469-02 | WG544706 |
| 4-Bromophenyl-phenylether | mg/kg | 0.415 | 0 | .333 | 125.* | 37-103 | L524469-02 | WG544706 |
| 4-Chloro-3-methylphenol | mg/kg | 0.416 | 0 | .333 | 125.* | 52-119 | L524469-02 | WG544706 |
| 4-Chlorophenyl-phenylether | mg/kg | 0.418 | 0 | .333 | 125.* | 53-105 | L524469-02 | WG544706 |
| 4-Nitrophenol | mg/kg | 0.314 | 0 | .333 | 94.1 | 15-140 | L524469-02 | WG544706 |
| Acenaphthene | mg/kg | 0.390 | 0 | .333 | 117.* | 52-102 | L524469-02 | WG544706 |
| Acenaphthylene | mg/kg | 0.400 | 0 | .333 | 120.* | 54-103 | L524469-02 | WG544706 |
| Anthracene | mg/kg | 0.389 | 0 | .333 | 117.* | 55-114 | L524469-02 | WG544706 |
| Benzidine | mg/kg | 0.0979 | 0 | .333 | 29.4 | 0-45 | L524469-02 | WG544706 |
| Benzo(a)anthracene | mg/kg | 0.380 | 0 | .333 | 114. | 37-124 | L524469-02 | WG544706 |
| Benzo(a)pyrene | mg/kg | 0.377 | 0 | .333 | 113. | 44-129 | L524469-02 | WG544706 |
| Benzo(b)fluoranthene | mg/kg | 0.374 | 0 | .333 | 112. | 28-135 | L524469-02 | WG544706 |
| Benzo(g,h,i)perylene | mg/kg | 0.370 | 0 | .333 | 111. | 25-123 | L524469-02 | WG544706 |
| Benzo(k)fluoranthene | mg/kg | 0.366 | 0 | .333 | 110. | 41-116 | L524469-02 | WG544706 |
| Benzylbutyl phthalate | mg/kg | 0.423 | 0 | .333 | 127. | 45-143 | L524469-02 | WG544706 |
| Bis(2-chlorethoxy)methane | mg/kg | 0.364 | 0 | .333 | 109.* | 48-108 | L524469-02 | WG544706 |
| Bis(2-chloroethyl)ether | mg/kg | 0.325 | 0 | .333 | 97.7 | 36-115 | L524469-02 | WG544706 |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.371 | 0 | .333 | 111.* | 44-109 | L524469-02 | WG544706 |
| Bis(2-ethylhexyl)phthalate | mg/kg | 0.370 | 0 | .333 | 111. | 40-128 | L524469-02 | WG544706 |
| Chrysene | mg/kg | 0.360 | 0 | .333 | 108. | 39-119 | L524469-02 | WG544706 |
| Di-n-butyl phthalate | mg/kg | 0.376 | 0 | .333 | 113. | 49-121 | L524469-02 | WG544706 |
| Di-n-octyl phthalate | mg/kg | 0.356 | 0 | .333 | 107. | 40-132 | L524469-02 | WG544706 |
| Dibenz(a,h)anthracene | mg/kg | 0.392 | 0 | .333 | 118. | 29-123 | L524469-02 | WG544706 |
| Diethyl phthalate | mg/kg | 0.425 | 0 | .333 | 128.* | 51-113 | L524469-02 | WG544706 |
| Dimethyl phthalate | mg/kg | 0.408 | 0 | .333 | 122.* | 54-108 | L524469-02 | WG544706 |
| Fluoranthene | mg/kg | 0.382 | 0 | .333 | 115. | 23-143 | L524469-02 | WG544706 |
| Fluorene | mg/kg | 0.413 | 0 | .333 | 124.* | 53-107 | L524469-02 | WG544706 |
| Hexachloro-1,3-butadiene | mg/kg | 0.422 | 0 | .333 | 126.* | 39-113 | L524469-02 | WG544706 |
| Hexachlorobenzene | mg/kg | 0.389 | 0 | .333 | 117.* | 49-108 | L524469-02 | WG544706 |
| Hexachlorocyclopentadiene | mg/kg | 0.279 | 0 | .333 | 83.6 | 10-131 | L524469-02 | WG544706 |
| Hexachloroethane | mg/kg | 0.317 | 0 | .333 | 95.1 | 25-118 | L524469-02 | WG544706 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.383 | 0 | .333 | 115. | 28-125 | L524469-02 | WG544706 |
| Isophorone | mg/kg | 0.307 | 0 | .333 | 92.1 | 51-115 | L524469-02 | WG544706 |
| n-Nitrosodi-n-propylamine | mg/kg | 0.368 | 0 | .333 | 110.* | 54-110 | L524469-02 | WG544706 |
| n-Nitrosodimethylamine | mg/kg | 0.242 | 0 | .333 | 72.6 | 20-116 | L524469-02 | WG544706 |
| n-Nitrosodiphenylamine | mg/kg | 0.386 | 0 | .333 | 116. | 54-138 | L524469-02 | WG544706 |
| Naphthalene | mg/kg | 0.375 | 0 | .333 | 112.* | 41-100 | L524469-02 | WG544706 |
| Nitrobenzene | mg/kg | 0.359 | 0 | .333 | 108.* | 40-102 | L524469-02 | WG544706 |
| Pentachlorophenol | mg/kg | 0.340 | 0 | .333 | 102. | 10-146 | L524469-02 | WG544706 |
| Phenanthrene | mg/kg | 0.397 | 0 | .333 | 119. | 37-125 | L524469-02 | WG544706 |

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Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

July 13, 2011

L524386

| Analyte | Units | Matrix Spike | | | % Rec | Limit | Ref Samp | Batch |
|----------------------------|-------|--------------|---------|------|--------|--------|------------|----------|
| | | MS Res | Ref Res | TV | | | | |
| Phenol | mg/kg | 0.509 | 0 | .333 | 153.* | 52-111 | L524469-02 | WG544706 |
| Pyrene | mg/kg | 0.409 | 0 | .333 | 123. | 22-151 | L524469-02 | WG544706 |
| 2,4,6-Tribromophenol | | | | | 139.7* | 25-137 | | WG544706 |
| 2-Fluorobiphenyl | | | | | 115.1 | 30-120 | | WG544706 |
| 2-Fluorophenol | | | | | 95.48 | 26-130 | | WG544706 |
| Nitrobenzene-d5 | | | | | 110.0 | 18-119 | | WG544706 |
| Phenol-d5 | | | | | 108.5 | 37-141 | | WG544706 |
| p-Terphenyl-d14 | | | | | 118.9 | 23-143 | | WG544706 |
| TPH (GC/FID) High Fraction | ppm | 50.2 | 0 | 60 | 83.7 | 50-150 | L524469-02 | WG544419 |
| o-Terphenyl | | | | | 77.75 | 50-150 | | WG544419 |
| Ethanol | mg/kg | 0.508 | 0.0360 | .5 | 94.4 | 70-130 | L525232-02 | WG545094 |
| Methanol | mg/kg | 0.466 | 0.0290 | .5 | 87.4 | 70-130 | L525232-02 | WG545094 |

| Analyte | Units | Matrix Spike Duplicate | | | Limit | RPD | Limit Ref Samp | Batch |
|-----------------------------|-------|------------------------|---------|-------|--------|-------|----------------|----------|
| | | MSD | Ref | %Rec | | | | |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.0150 | 0.0172 | 12.0* | 29-145 | 13.5 | 31 L523674-01 | WG544259 |
| 1,1,1-Trichloroethane | mg/kg | 0.0449 | 0.0537 | 35.9 | 23-147 | 17.8 | 32 L523674-01 | WG544259 |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.00721 | 0.0106 | 5.77* | 18-150 | 38.3* | 33 L523674-01 | WG544259 |
| 1,1,2-Trichloroethane | mg/kg | 0.0134 | 0.0190 | 10.7* | 35-140 | 34.9* | 29 L523674-01 | WG544259 |
| 1,1-Dichloroethane | mg/kg | 0.0389 | 0.0530 | 31.1 | 24-148 | 30.7 | 31 L523674-01 | WG544259 |
| 1,1-Dichloroethene | mg/kg | 0.0404 | 0.0463 | 32.3 | 10-149 | 13.8 | 34 L523674-01 | WG544259 |
| 1,1-Dichloropropene | mg/kg | 0.0295 | 0.0364 | 23.6 | 10-141 | 21.2 | 34 L523674-01 | WG544259 |
| 1,2,2,3-Trichlorobenzene | mg/kg | 0.00230 | 0.00341 | 1.84* | 10-129 | 39.0 | 43 L523674-01 | WG544259 |
| 1,2,3-Trichloropropane | mg/kg | 0.00829 | 0.0102 | 6.64* | 30-148 | 20.7 | 32 L523674-01 | WG544259 |
| 1,2,4-Trichlorobenzene | mg/kg | 0 | 0 | 0* | 10-119 | 0 | 44 L523674-01 | WG544259 |
| 1,2,4-Trimethylbenzene | mg/kg | 0.00388 | 0.00234 | 3.10* | 10-145 | 49.3* | 41 L523674-01 | WG544259 |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 0.0139 | 0 | 11.1* | 19-145 | 200.* | 35 L523674-01 | WG544259 |
| 1,2-Dibromoethane | mg/kg | 0.0113 | 0.0120 | 9.00* | 24-145 | 6.37 | 31 L523674-01 | WG544259 |
| 1,2-Dichlorobenzene | mg/kg | 0.0165 | 0.0115 | 13.2 | 12-130 | 35.6* | 35 L523674-01 | WG544259 |
| 1,2-Dichloroethane | mg/kg | 0.0225 | 0.0370 | 18.0* | 21-155 | 48.8* | 29 L523674-01 | WG544259 |
| 1,2-Dichloropropene | mg/kg | 0.0212 | 0.0311 | 17.0* | 28-144 | 37.7* | 30 L523674-01 | WG544259 |
| 1,3,5-Trimethylbenzene | mg/kg | 0.00511 | 0.00401 | 4.08* | 10-135 | 24.0 | 39 L523674-01 | WG544259 |
| 1,3-Dichlorobenzene | mg/kg | 0.00337 | 0.00242 | 2.70* | 10-129 | 32.6 | 38 L523674-01 | WG544259 |
| 1,3-Dichloropropane | mg/kg | 0.0144 | 0.0160 | 11.5* | 31-137 | 10.4 | 29 L523674-01 | WG544259 |
| 1,4-Dichlorobenzene | mg/kg | 0.0151 | 0.0207 | 12.1 | 10-121 | 31.0 | 36 L523674-01 | WG544259 |
| 2,2-Dichloropropane | mg/kg | 0.0423 | 0.0592 | 33.8 | 18-144 | 33.3* | 32 L523674-01 | WG544259 |
| 2-Butanone (MEK) | mg/kg | 0.148 | 0.252 | 23.7 | 21-143 | 51.6* | 37 L523674-01 | WG544259 |
| 2-Chloroethyl vinyl ether | mg/kg | 0.0506 | 0.0768 | 8.09 | 0-176 | 41.2 | 50 L523674-01 | WG544259 |
| 2-Chlorotoluene | mg/kg | 0.00628 | 0.00521 | 5.02* | 10-132 | 18.5 | 37 L523674-01 | WG544259 |
| 4-Chlorotoluene | mg/kg | 0.00545 | 0.00423 | 4.36* | 10-129 | 25.2 | 38 L523674-01 | WG544259 |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | 0.0586 | 0.0749 | 9.38* | 31-151 | 24.5 | 36 L523674-01 | WG544259 |
| Acetone | mg/kg | 0.278 | 0.403 | 44.4 | 13-158 | 36.8* | 34 L523674-01 | WG544259 |
| Acrylonitrile | mg/kg | 0.167 | 0.266 | 26.8 | 20-154 | 45.5* | 35 L523674-01 | WG544259 |
| Benzene | mg/kg | 0.0201 | 0.0238 | 16.1 | 16-143 | 17.0 | 31 L523674-01 | WG544259 |
| Bromobenzene | mg/kg | 0.00647 | 0.00605 | 5.18* | 14-135 | 6.76 | 39 L523674-01 | WG544259 |
| Bromodichloromethane | mg/kg | 0.0200 | 0.0297 | 16.0* | 27-139 | 39.1* | 30 L523674-01 | WG544259 |
| Bromoform | mg/kg | 0.0101 | 0.0140 | 8.07* | 21-144 | 32.2 | 34 L523674-01 | WG544259 |
| Bromomethane | mg/kg | 0.0569 | 0.0772 | 45.5 | 0-180 | 30.3 | 41 L523674-01 | WG544259 |
| Carbon tetrachloride | mg/kg | 0.0450 | 0.0516 | 36.0 | 12-149 | 13.7 | 34 L523674-01 | WG544259 |
| Chlorobenzene | mg/kg | 0.00940 | 0.00952 | 7.52* | 17-134 | 1.29 | 34 L523674-01 | WG544259 |
| Chlorodibromomethane | mg/kg | 0.0134 | 0.0194 | 10.7* | 28-147 | 36.4* | 32 L523674-01 | WG544259 |
| Chloroethane | mg/kg | 0.0502 | 0.0634 | 40.2 | 0-172 | 23.2 | 38 L523674-01 | WG544259 |
| Chloroform | mg/kg | 0.0334 | 0.0482 | 26.7* | 28-138 | 36.2* | 30 L523674-01 | WG544259 |
| Chloromethane | mg/kg | 0.0812 | 0.113 | 65.0 | 10-158 | 33.0 | 35 L523674-01 | WG544259 |

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YOUR LAB OF CHOICE

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Quality Assurance Report
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L524386

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

July 13, 2011

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref | Samp | Batch |
|-----------------------------|-------|---------|------------------------|--------|--------|--------|-------|------------|------|----------|
| | | | Ref | %Rec | | | | | | |
| cis-1,2-Dichloroethene | mg/kg | 0.0276 | 0.0395 | 22.0 | 21-147 | 35.6* | 31 | L523674-01 | | WG544259 |
| cis-1,3-Dichloropropene | mg/kg | 0.0145 | 0.0186 | 11.6* | 17-145 | 24.8 | 32 | L523674-01 | | WG544259 |
| Di-isopropyl ether | mg/kg | 0.0203 | 0.0309 | 16.2* | 31-153 | 41.6* | 29 | L523674-01 | | WG544259 |
| Dibromomethane | mg/kg | 0.0204 | 0.0318 | 16.3* | 24-147 | 44.0* | 30 | L523674-01 | | WG544259 |
| Dichlorodifluoromethane | mg/kg | 0.0739 | 0.0981 | 59.1 | 0-192 | 28.2 | 38 | L523674-01 | | WG544259 |
| Ethylbenzene | mg/kg | 0.0107 | 0.0110 | 8.52* | 12-137 | 3.56 | 36 | L523674-01 | | WG544259 |
| Hexachloro-1,3-butadiene | mg/kg | 0.0164 | 0.0243 | 13.1 | 10-123 | 39.0 | 50 | L523674-01 | | WG544259 |
| Isopropylbenzene | mg/kg | 0.00874 | 0.00782 | 6.99* | 14-134 | 11.1 | 37 | L523674-01 | | WG544259 |
| Methyl tert-butyl ether | mg/kg | 0.0350 | 0.0519 | 28.0 | 21-157 | 38.7* | 31 | L523674-01 | | WG544259 |
| Methylene Chloride | mg/kg | 0.0448 | 0.0701 | 35.8 | 12-149 | 44.0* | 31 | L523674-01 | | WG544259 |
| n-Butylbenzene | mg/kg | 0.0151 | 0.0160 | 12.1 | 10-130 | 5.47 | 48 | L523674-01 | | WG544259 |
| n-Hexane | mg/kg | 0.0353 | 0.0354 | 28.2 | 10-129 | 0.240 | 42 | L523674-01 | | WG544259 |
| n-Propylbenzene | mg/kg | 0.00650 | 0.00481 | 5.20* | 10-130 | 29.9 | 40 | L523674-01 | | WG544259 |
| Naphthalene | mg/kg | 0.00390 | 0.00495 | 3.12 | 0-146 | 23.7 | 43 | L523674-01 | | WG544259 |
| p-Isopropyltoluene | mg/kg | 0.00460 | 0.00376 | 3.68* | 10-131 | 19.9 | 43 | L523674-01 | | WG544259 |
| sec-Butylbenzene | mg/kg | 0.00551 | 0.00452 | 4.41* | 10-134 | 19.7 | 43 | L523674-01 | | WG544259 |
| Styrene | mg/kg | 0.00439 | 0.00340 | 3.51* | 10-140 | 25.5 | 35 | L523674-01 | | WG544259 |
| tert-Butylbenzene | mg/kg | 0.00683 | 0.00585 | 5.47* | 11-137 | 15.4 | 39 | L523674-01 | | WG544259 |
| Tetrachloroethene | mg/kg | 0.0206 | 0.0194 | 16.5 | 10-131 | 5.68 | 35 | L523674-01 | | WG544259 |
| Toluene | mg/kg | 0.0155 | 0.0173 | 12.4 | 12-136 | 10.9 | 32 | L523674-01 | | WG544259 |
| trans-1,2-Dichloroethene | mg/kg | 0.0343 | 0.0412 | 27.4 | 10-143 | 18.2 | 33 | L523674-01 | | WG544259 |
| trans-1,3-Dichloropropene | mg/kg | 0.0115 | 0.0147 | 9.22* | 16-147 | 24.3 | 32 | L523674-01 | | WG544259 |
| Trichloroethene | mg/kg | 0.0236 | 0.0269 | 18.9 | 10-155 | 12.8 | 33 | L523674-01 | | WG544259 |
| Trichlorofluoromethane | mg/kg | 0.0471 | 0.0573 | 37.7 | 10-154 | 19.6 | 32 | L523674-01 | | WG544259 |
| Vinyl chloride | mg/kg | 0.0514 | 0.0709 | 41.1 | 10-159 | 31.9 | 36 | L523674-01 | | WG544259 |
| Xylenes, Total | mg/kg | 0.0243 | 0.0202 | 6.49* | 10-138 | 18.8 | 36 | L523674-01 | | WG544259 |
| | | | | 42.05* | 59-140 | | | | | WG544259 |
| 4-Bromofluorobenzene | | | | | 142.4* | 63-139 | | | | WG544259 |
| Dibromofluoromethane | | | | | 93.11 | 84-116 | | | | WG544259 |
| Toluene-d8 | | | | | 100.1 | 80-118 | | | | WG544259 |
| a,a,a-Trifluorotoluene | | | | | | | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 327. | 265. | 96.3 | 55-109 | 21.1* | 20 | L523846-03 | | WG544284 |
| a,a,a-Trifluorotoluene(FID) | | | | 100.6 | 59-128 | | | | | WG544284 |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.108 | 0.103 | 86.4 | 29-145 | 5.15 | 31 | L524672-01 | | WG544601 |
| 1,1,1-Trichloroethane | mg/kg | 0.106 | 0.0966 | 84.4 | 23-147 | 9.09 | 32 | L524672-01 | | WG544601 |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.0976 | 0.0903 | 75.7 | 18-150 | 7.77 | 33 | L524672-01 | | WG544601 |
| 1,1,2-Trichloroethane | mg/kg | 0.119 | 0.113 | 87.7 | 35-140 | 5.25 | 29 | L524672-01 | | WG544601 |
| 1,1-Dichloroethane | mg/kg | 0.106 | 0.0942 | 84.1 | 24-148 | 11.4 | 31 | L524672-01 | | WG544601 |
| 1,1-Dichloroethene | mg/kg | 0.0830 | 0.0776 | 66.4 | 10-149 | 6.68 | 34 | L524672-01 | | WG544601 |
| 1,1-Dichloropropene | mg/kg | 0.0706 | 0.0684 | 56.5 | 10-141 | 3.23 | 34 | L524672-01 | | WG544601 |
| 1,2,3-Trichlorobenzene | mg/kg | 0.0546 | 0.0601 | 42.2 | 10-129 | 9.68 | 43 | L524672-01 | | WG544601 |
| 1,2,3-Trichloropropane | mg/kg | 0.110 | 0.104 | 86.4 | 30-148 | 5.36 | 32 | L524672-01 | | WG544601 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.0638 | 0.0716 | 50.4 | 10-119 | 11.5 | 44 | L524672-01 | | WG544601 |
| 1,2,4-Trimethylbenzene | mg/kg | 0.0917 | 0.0893 | 60.4 | 10-145 | 2.67 | 41 | L524672-01 | | WG544601 |
| 1,2-Dibromo-3-Chloropropane | mg/kg | 0.144 | 0.131 | 112. | 19-145 | 9.26 | 35 | L524672-01 | | WG544601 |
| 1,2-Dibromoethane | mg/kg | 0.0986 | 0.0974 | 78.8 | 24-145 | 1.22 | 31 | L524672-01 | | WG544601 |
| 1,2-Dichlorobenzene | mg/kg | 0.110 | 0.110 | 88.3 | 12-130 | 0.480 | 35 | L524672-01 | | WG544601 |
| 1,2-Dichloroethane | mg/kg | 0.101 | 0.0943 | 79.4 | 21-155 | 6.97 | 29 | L524672-01 | | WG544601 |
| 1,2-Dichloropropane | mg/kg | 0.0986 | 0.0950 | 77.1 | 28-144 | 3.74 | 30 | L524672-01 | | WG544601 |
| 1,3,5-Trimethylbenzene | mg/kg | 0.0830 | 0.0840 | 60.0 | 10-135 | 1.24 | 39 | L524672-01 | | WG544601 |
| 1,3-Dichlorobenzene | mg/kg | 0.0657 | 0.0703 | 52.4 | 10-129 | 6.67 | 38 | L524672-01 | | WG544601 |
| 1,3-Dichloropropane | mg/kg | 0.104 | 0.0975 | 82.6 | 31-137 | 6.08 | 29 | L524672-01 | | WG544601 |
| 1,4-Dichlorobenzene | mg/kg | 0.107 | 0.110 | 85.2 | 10-121 | 2.97 | 36 | L524672-01 | | WG544601 |
| 2,2-Dichloropropane | mg/kg | 0.119 | 0.106 | 94.9 | 18-144 | 11.8 | 32 | L524672-01 | | WG544601 |
| 2-Butanone (MEK) | mg/kg | 0.618 | 0.545 | 98.1 | 21-143 | 12.6 | 37 | L524672-01 | | WG544601 |
| 2-Chloroethyl vinyl ether | mg/kg | 0.516 | 0.502 | 82.4 | 0-176 | 2.76 | 50 | L524672-01 | | WG544601 |

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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

July 13, 2011

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref | Samp | Batch |
|-----------------------------|-------|---------|------------------------|-------|--------|-------|-------|------------|------|----------|
| | | | Ref | %Rec | | | | | | |
| 2-Chlorotoluene | mg/kg | 0.0789 | 0.0784 | 62.3 | 10-132 | 0.570 | 37 | L524672-01 | | WG544601 |
| 4-Chlorotoluene | mg/kg | 0.0724 | 0.0813 | 0* | 10-129 | 11.6 | 38 | L524672-01 | | WG544601 |
| 4-Methyl-2-pentanone (MIBK) | mg/kg | 0.654 | 0.590 | 105. | 31-151 | 10.2 | 36 | L524672-01 | | WG544601 |
| Acetone | mg/kg | 0.888 | 0.764 | 105. | 13-158 | 15.0 | 34 | L524672-01 | | WG544601 |
| Acrylonitrile | mg/kg | 0.643 | 0.559 | 98.4 | 20-154 | 14.0 | 35 | L524672-01 | | WG544601 |
| Benzene | mg/kg | 0.109 | 0.0940 | 73.5 | 16-143 | 14.6 | 31 | L524672-01 | | WG544601 |
| Bromobenzene | mg/kg | 0.0817 | 0.0822 | 64.5 | 14-135 | 0.590 | 39 | L524672-01 | | WG544601 |
| Bromodichloromethane | mg/kg | 0.102 | 0.0958 | 81.0 | 27-139 | 5.87 | 30 | L524672-01 | | WG544601 |
| Bromoform | mg/kg | 0.0930 | 0.0933 | 74.4 | 21-144 | 0.300 | 34 | L524672-01 | | WG544601 |
| Bromomethane | mg/kg | 0.0621 | 0.0560 | 49.7 | 0-180 | 10.3 | 41 | L524672-01 | | WG544601 |
| Carbon tetrachloride | mg/kg | 0.0855 | 0.0802 | 67.5 | 12-149 | 6.38 | 34 | L524672-01 | | WG544601 |
| Chlorobenzene | mg/kg | 0.0917 | 0.0908 | 73.3 | 17-134 | 1.03 | 34 | L524672-01 | | WG544601 |
| Chlorodibromomethane | mg/kg | 0.103 | 0.0987 | 82.1 | 28-147 | 3.84 | 32 | L524672-01 | | WG544601 |
| Chloroethane | mg/kg | 0.0721 | 0.0659 | 57.7 | 0-172 | 9.04 | 38 | L524672-01 | | WG544601 |
| Chloroform | mg/kg | 0.112 | 0.101 | 88.4 | 28-138 | 10.2 | 30 | L524672-01 | | WG544601 |
| Chloromethane | mg/kg | 0.0517 | 0.0451 | 40.8 | 10-158 | 13.7 | 35 | L524672-01 | | WG544601 |
| cis-1,2-Dichloroethene | mg/kg | 0.0924 | 0.0874 | 74.0 | 21-147 | 5.61 | 31 | L524672-01 | | WG544601 |
| cis-1,3-Dichloropropene | mg/kg | 0.0963 | 0.0944 | 77.0 | 17-145 | 1.96 | 32 | L524672-01 | | WG544601 |
| Di-isopropyl ether | mg/kg | 0.118 | 0.106 | 94.3 | 31-153 | 10.8 | 29 | L524672-01 | | WG544601 |
| Dibromomethane | mg/kg | 0.0919 | 0.0871 | 73.5 | 24-147 | 5.36 | 30 | L524672-01 | | WG544601 |
| Dichlorodifluoromethane | mg/kg | 0.0936 | 0.0822 | 74.9 | 0-192 | 13.0 | 38 | L524672-01 | | WG544601 |
| Ethylbenzene | mg/kg | 0.100 | 0.0946 | 74.5 | 12-137 | 5.78 | 36 | L524672-01 | | WG544601 |
| Hexachloro-1,3-butadiene | mg/kg | 0.0395 | 0.0476 | 31.6 | 10-123 | 18.7 | 50 | L524672-01 | | WG544601 |
| Isopropylbenzene | mg/kg | 0.0898 | 0.0925 | 70.7 | 14-134 | 2.91 | 37 | L524672-01 | | WG544601 |
| Methyl tert-butyl ether | mg/kg | 0.135 | 0.121 | 108. | 21-157 | 11.3 | 31 | L524672-01 | | WG544601 |
| Methylene Chloride | mg/kg | 0.0858 | 0.0761 | 68.2 | 12-149 | 12.0 | 31 | L524672-01 | | WG544601 |
| n-Butylbenzene | mg/kg | 0.0869 | 0.0979 | 67.5 | 10-130 | 11.9 | 48 | L524672-01 | | WG544601 |
| n-Hexane | mg/kg | 0.0422 | 0.0348 | 25.3 | 10-129 | 19.2 | 42 | L524672-01 | | WG544601 |
| n-Propylbenzene | mg/kg | 0.0749 | 0.0783 | 58.2 | 10-130 | 4.44 | 40 | L524672-01 | | WG544601 |
| Naphthalene | mg/kg | 0.109 | 0.0997 | 75.4 | 0-146 | 9.15 | 43 | L524672-01 | | WG544601 |
| p-Isopropyltoluene | mg/kg | 0.252 | 0.206 | 50.1 | 10-131 | 20.2 | 43 | L524672-01 | | WG544601 |
| sec-Butylbenzene | mg/kg | 0.0618 | 0.0673 | 46.1 | 10-134 | 8.52 | 43 | L524672-01 | | WG544601 |
| Styrene | mg/kg | 0.0725 | 0.0715 | 57.8 | 10-140 | 1.47 | 35 | L524672-01 | | WG544601 |
| tert-Butylbenzene | mg/kg | 0.0693 | 0.0746 | 52.6 | 11-137 | 7.26 | 39 | L524672-01 | | WG544601 |
| Tetrachloroethene | mg/kg | 0.0776 | 0.0789 | 62.0 | 10-131 | 1.73 | 35 | L524672-01 | | WG544601 |
| Toluene | mg/kg | 0.121 | 0.105 | 72.1 | 12-136 | 14.2 | 32 | L524672-01 | | WG544601 |
| trans-1,2-Dichloroethene | mg/kg | 0.0638 | 0.0616 | 51.1 | 10-143 | 3.53 | 33 | L524672-01 | | WG544601 |
| trans-1,3-Dichloropropene | mg/kg | 0.0896 | 0.0914 | 71.3 | 16-147 | 1.97 | 32 | L524672-01 | | WG544601 |
| Trichloroethene | mg/kg | 0.0851 | 0.0819 | 68.0 | 10-155 | 3.84 | 33 | L524672-01 | | WG544601 |
| Trichlorofluoromethane | mg/kg | 0.0827 | 0.0757 | 66.1 | 10-154 | 8.86 | 32 | L524672-01 | | WG544601 |
| Vinyl chloride | mg/kg | 0.0561 | 0.0506 | 44.8 | 10-159 | 10.2 | 36 | L524672-01 | | WG544601 |
| Xylenes, Total | mg/kg | 0.326 | 0.301 | 74.6 | 10-138 | 7.91 | 36 | L524672-01 | | WG544601 |
| 4-Bromofluorobenzene | | | | 78.65 | 59-140 | | | | | WG544601 |
| Dibromofluoromethane | | | | 105.4 | 63-139 | | | | | WG544601 |
| Toluene-d8 | | | | 97.41 | 84-116 | | | | | WG544601 |
| a,a,a-Trifluorotoluene | | | | 96.68 | 80-118 | | | | | WG544601 |
| Mercury | mg/kg | 0.262 | 0.252 | 105. | 70-130 | 3.89 | 20 | L524123-22 | | WG544187 |
| Chromium, Hexavalent | mg/kg | 11.1 | 11.7 | 55.5 | 50-150 | 5.26 | 20 | L524098-02 | | WG544563 |
| Mercury | mg/l | 0.00306 | 0.00302 | 102. | 70-130 | 1.32 | 20 | L524139-08 | | WG544656 |
| Arsenic | mg/l | 1.10 | 1.12 | 97.3 | 75-125 | 1.80 | 20 | L524495-05 | | WG544657 |
| Barium | mg/l | 1.17 | 1.15 | 104. | 75-125 | 1.72 | 20 | L524495-05 | | WG544657 |

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Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report
Level II

July 13, 2011

L524386

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref | Samp | Batch |
|-----------------------------|-------|-------|------------------------|-------|--------|-------|-------|------------|------|----------|
| | | | Ref | %Rec | | | | | | |
| Cadmium | mg/l | 1.07 | 1.09 | 94.7 | 75-125 | 1.85 | 20 | L524495-05 | | WG544657 |
| Chromium | mg/l | 1.11 | 1.11 | 98.2 | 75-125 | 0 | 20 | L524495-05 | | WG544657 |
| Lead | mg/l | 1.09 | 1.10 | 96.5 | 75-125 | 0.913 | 20 | L524495-05 | | WG544657 |
| Selenium | mg/l | 1.09 | 1.08 | 96.5 | 75-125 | 0.922 | 20 | L524495-05 | | WG544657 |
| Silver | mg/l | 0.907 | 0.896 | 80.3 | 75-125 | 1.22 | 20 | L524495-05 | | WG544657 |
| TPH (GC/FID) Low Fraction | mg/kg | 23.8 | 29.3 | 86.6 | 55-109 | 20.7* | 20 | L524706-01 | | WG544629 |
| a,a,a-Trifluorotoluene(FID) | | | | 95.23 | 59-128 | | | | | WG544629 |
| Arsenic | mg/kg | 45.9 | 44.8 | 89.6 | 75-125 | 2.43 | 20 | L524469-01 | | WG544349 |
| Barium | mg/kg | 126. | 114. | 122. | 75-125 | 10.0 | 20 | L524469-01 | | WG544349 |
| Cadmium | mg/kg | 47.2 | 45.4 | 94.4 | 75-125 | 3.89 | 20 | L524469-01 | | WG544349 |
| Chromium | mg/kg | 58.6 | 54.7 | 95.2 | 75-125 | 6.88 | 20 | L524469-01 | | WG544349 |
| Copper | mg/kg | 54.5 | 52.5 | 100. | 75-125 | 3.74 | 20 | L524469-01 | | WG544349 |
| Lead | mg/kg | 58.0 | 57.0 | 80.0 | 75-125 | 1.74 | 20 | L524469-01 | | WG544349 |
| Nickel | mg/kg | 53.6 | 50.7 | 94.1 | 75-125 | 5.56 | 20 | L524469-01 | | WG544349 |
| Selenium | mg/kg | 43.9 | 42.3 | 87.8 | 75-125 | 3.71 | 20 | L524469-01 | | WG544349 |
| Silver | mg/kg | 48.0 | 46.6 | 96.0 | 75-125 | 2.96 | 20 | L524469-01 | | WG544349 |
| Zinc | mg/kg | 82.1 | 80.6 | 72.2* | 75-125 | 1.84 | 20 | L524469-01 | | WG544349 |
| 1,2,4-Trichlorobenzene | mg/kg | 0.343 | 0.365 | 103. | 37-104 | 6.12 | 26 | L524469-02 | | WG544706 |
| 2,4,6-Trichlorophenol | mg/kg | 0.397 | 0.407 | 119. | 27-128 | 2.54 | 31 | L524469-02 | | WG544706 |
| 2,4-Dichlorophenol | mg/kg | 0.395 | 0.412 | 119.* | 39-116 | 4.16 | 23 | L524469-02 | | WG544706 |
| 2,4-Dimethylphenol | mg/kg | 0.383 | 0.403 | 115. | 50-119 | 5.02 | 27 | L524469-02 | | WG544706 |
| 2,4-Dinitrophenol | mg/kg | 0.240 | 0.245 | 72.1 | 10-123 | 2.24 | 42 | L524469-02 | | WG544706 |
| 2,4-Dinitrotoluene | mg/kg | 0.415 | 0.429 | 124.* | 52-121 | 3.40 | 23 | L524469-02 | | WG544706 |
| 2,6-Dinitrotoluene | mg/kg | 0.397 | 0.413 | 119.* | 53-114 | 3.77 | 22 | L524469-02 | | WG544706 |
| 2-Chloronaphthalene | mg/kg | 0.365 | 0.383 | 110.* | 52-101 | 4.64 | 20 | L524469-02 | | WG544706 |
| 2-Chlorophenol | mg/kg | 0.336 | 0.327 | 101. | 41-112 | 2.66 | 27 | L524469-02 | | WG544706 |
| 2-Nitrophenol | mg/kg | 0.383 | 0.403 | 115. | 23-117 | 5.14 | 31 | L524469-02 | | WG544706 |
| 3,3-Dichlorobenzidine | mg/kg | 0.345 | 0.330 | 104. | 10-133 | 4.54 | 41 | L524469-02 | | WG544706 |
| 4,6-Dinitro-2-methylphenol | mg/kg | 0.336 | 0.322 | 101. | 10-124 | 4.16 | 38 | L524469-02 | | WG544706 |
| 4-Bromophenyl-phenylether | mg/kg | 0.431 | 0.415 | 130.* | 37-103 | 3.80 | 23 | L524469-02 | | WG544706 |
| 4-Chloro-3-methylphenol | mg/kg | 0.406 | 0.416 | 122.* | 52-119 | 2.40 | 24 | L524469-02 | | WG544706 |
| 4-Chlorophenyl-phenylether | mg/kg | 0.414 | 0.418 | 124.* | 53-105 | 0.845 | 20 | L524469-02 | | WG544706 |
| 4-Nitrophenol | mg/kg | 0.309 | 0.314 | 92.8 | 15-140 | 1.47 | 40 | L524469-02 | | WG544706 |
| Acenaphthene | mg/kg | 0.393 | 0.390 | 118.* | 52-102 | 0.637 | 23 | L524469-02 | | WG544706 |
| Acenaphthylene | mg/kg | 0.394 | 0.400 | 118.* | 54-103 | 1.69 | 22 | L524469-02 | | WG544706 |
| Anthracene | mg/kg | 0.393 | 0.389 | 118.* | 55-114 | 1.10 | 21 | L524469-02 | | WG544706 |
| Benzidine | mg/kg | 0.104 | 0.0979 | 31.1 | 0-45 | 5.65 | 50 | L524469-02 | | WG544706 |
| Benzo(a)anthracene | mg/kg | 0.375 | 0.380 | 112. | 37-124 | 1.37 | 33 | L524469-02 | | WG544706 |
| Benzo(a)pyrene | mg/kg | 0.383 | 0.377 | 115. | 44-129 | 1.70 | 27 | L524469-02 | | WG544706 |
| Benzo(b)fluoranthene | mg/kg | 0.365 | 0.374 | 110. | 28-135 | 2.33 | 33 | L524469-02 | | WG544706 |
| Benzo(g,h,i)perylene | mg/kg | 0.370 | 0.370 | 111. | 25-123 | 0.153 | 35 | L524469-02 | | WG544706 |
| Benzo(k)fluoranthene | mg/kg | 0.365 | 0.366 | 110. | 41-116 | 0.324 | 34 | L524469-02 | | WG544706 |
| Benzylbutyl phthalate | mg/kg | 0.442 | 0.423 | 133. | 45-143 | 4.42 | 39 | L524469-02 | | WG544706 |
| Bis(2-chlorethoxy)methane | mg/kg | 0.349 | 0.364 | 105. | 48-108 | 4.27 | 23 | L524469-02 | | WG544706 |
| Bis(2-chloroethyl)ether | mg/kg | 0.279 | 0.325 | 83.8 | 36-115 | 15.4 | 30 | L524469-02 | | WG544706 |
| Bis(2-chloroisopropyl)ether | mg/kg | 0.368 | 0.371 | 110.* | 44-109 | 0.952 | 27 | L524469-02 | | WG544706 |
| Bis(2-ethylhexyl)phthalate | mg/kg | 0.379 | 0.370 | 114. | 40-128 | 2.30 | 34 | L524469-02 | | WG544706 |
| Chrysene | mg/kg | 0.365 | 0.360 | 110. | 39-119 | 1.27 | 31 | L524469-02 | | WG544706 |
| Di-n-butyl phthalate | mg/kg | 0.394 | 0.376 | 118. | 49-121 | 4.58 | 22 | L524469-02 | | WG544706 |
| Di-n-octyl phthalate | mg/kg | 0.359 | 0.356 | 108. | 40-132 | 0.868 | 27 | L524469-02 | | WG544706 |
| Dibenz(a,h)anthracene | mg/kg | 0.387 | 0.392 | 116. | 29-123 | 1.26 | 30 | L524469-02 | | WG544706 |
| Diethyl phthalate | mg/kg | 0.420 | 0.425 | 126.* | 51-113 | 1.15 | 21 | L524469-02 | | WG544706 |
| Dimethyl phthalate | mg/kg | 0.412 | 0.408 | 124.* | 54-108 | 0.992 | 23 | L524469-02 | | WG544706 |

* Performance of this Analyte is outside of established criteria.

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Brett Middleton / Brad Kieding
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Quality Assurance Report
Level II

L524386

12065 Lebanon Rd.
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1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

July 13, 2011

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref | Samp | Batch |
|----------------------------|-------|-------|------------------------|--------|--------|-------|-------|------------|------|----------|
| | | | Ref | %Rec | | | | | | |
| Fluoranthene | mg/kg | 0.409 | 0.382 | 123. | 23-143 | 6.75 | 29 | L524469-02 | | WG544706 |
| Fluorene | mg/kg | 0.410 | 0.413 | 123.* | 53-107 | 0.806 | 22 | L524469-02 | | WG544706 |
| Hexachloro-1,3-butadiene | mg/kg | 0.413 | 0.422 | 124.* | 39-113 | 2.13 | 26 | L524469-02 | | WG544706 |
| Hexachlorobenzene | mg/kg | 0.415 | 0.389 | 124.* | 49-108 | 6.44 | 27 | L524469-02 | | WG544706 |
| Hexachlorocyclopentadiene | mg/kg | 0.278 | 0.279 | 83.4 | 10-131 | 0.270 | 39 | L524469-02 | | WG544706 |
| Hexachloroethane | mg/kg | 0.333 | 0.317 | 99.8 | 25-118 | 4.83 | 35 | L524469-02 | | WG544706 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.380 | 0.383 | 114. | 28-125 | 0.702 | 32 | L524469-02 | | WG544706 |
| Isophorone | mg/kg | 0.294 | 0.307 | 88.2 | 51-115 | 4.40 | 22 | L524469-02 | | WG544706 |
| n-Nitrosodi-n-propylamine | mg/kg | 0.366 | 0.368 | 110. | 54-110 | 0.556 | 23 | L524469-02 | | WG544706 |
| n-Nitrosodimethylamine | mg/kg | 0.249 | 0.242 | 74.9 | 20-116 | 3.18 | 38 | L524469-02 | | WG544706 |
| n-Nitrosodiphenylamine | mg/kg | 0.400 | 0.386 | 120. | 54-138 | 3.43 | 26 | L524469-02 | | WG544706 |
| Naphthalene | mg/kg | 0.351 | 0.375 | 105.* | 41-100 | 6.56 | 26 | L524469-02 | | WG544706 |
| Nitrobenzene | mg/kg | 0.343 | 0.359 | 103.* | 40-102 | 4.64 | 24 | L524469-02 | | WG544706 |
| Pentachlorophenol | mg/kg | 0.358 | 0.340 | 108. | 10-146 | 5.34 | 35 | L524469-02 | | WG544706 |
| Phenanthrene | mg/kg | 0.399 | 0.397 | 120. | 37-125 | 0.349 | 27 | L524469-02 | | WG544706 |
| Phenol | mg/kg | 0.529 | 0.509 | 159.* | 52-111 | 3.91 | 22 | L524469-02 | | WG544706 |
| Pyrene | mg/kg | 0.407 | 0.409 | 122. | 22-151 | 0.363 | 38 | L524469-02 | | WG544706 |
| 2,4,6-Tribromophenol | | | | 138.9* | 25-137 | | | | | WG544706 |
| 2-Fluorobiphenyl | | | | 111.3 | 30-120 | | | | | WG544706 |
| 2-Fluorophenol | | | | 99.73 | 26-130 | | | | | WG544706 |
| Nitrobenzene-d5 | | | | 105.4 | 18-119 | | | | | WG544706 |
| Phenol-d5 | | | | 111.9 | 37-141 | | | | | WG544706 |
| p-Terphenyl-d14 | | | | 96.98 | 23-143 | | | | | WG544706 |
| TPH (GC/FID) High Fraction | ppm | 48.3 | 50.2 | 80.6 | 50-150 | 3.89 | 25 | L524469-02 | | WG544419 |
| o-Terphenyl | | | | 78.58 | 50-150 | | | | | WG544419 |
| Ethanol | mg/kg | 0.549 | 0.508 | 103. | 70-130 | 7.80 | 20 | L525232-02 | | WG545094 |
| Methanol | mg/kg | 0.472 | 0.466 | 88.6 | 70-130 | 1.35 | 20 | L525232-02 | | WG545094 |

Batch number /Run number / Sample number cross reference

WG544259: R1751035: L524386-01
WG544284: R1751169: L524386-01
WG544373: R1752371: L524386-01 02
WG544378: R1752372: L524386-01 02
WG544601: R1752492: L524386-02
WG544187: R1752890: L524386-01 02
WG544441: R1752896: L524386-03 04
WG544563: R1753509: L524386-01 02
WG544656: R1753710: L524386-03 04
WG544657: R1753790: L524386-03 04
WG544629: R1753916: L524386-02
WG544349: R1753949: L524386-01 02
WG544348: R1754630: L524386-01 02
WG544761: R1754990: L524386-01 02
WG544706: R1755451: L524386-01 02
WG544368: R1756410: L524386-01 02
WG545040: R1756430: L524386-01 02
WG544759: R1756730: L524386-01 02
WG544419: R1757050: L524386-01 02
WG545094: R1758070: L524386-01 02
WG545262: R1759993: L524386-01 02
WG545283: R1760650: L524386-01 02

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

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L·A·B S·C·I·E·N·C·E·S

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Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.



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Brett Middleton
EnCana Oil & Gas Inc. - CO
143 Diamond Avenue
Parachute, CO 81635

Report Summary

Monday June 17, 2013

Report Number: L640681

Samples Received: 06/12/13

Client Project: BENZEL

Description: Hunter Mesa Water Park Filter Press

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

T. Alan Harvill , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

June 17, 2013

Brett Middleton
EnCana Oil & Gas Inc. - CO
143 Diamond Avenue
Parachute, CO 81635

Date Received : June 12, 2013
Description : Hunter MEsa Water Park Filter Press
Sample ID : HMWP-FP-061113
Collected By : Shad Johnson
Collection Date : 06/11/13 08:00

ESC Sample # : L640681-01

Site ID : BENZEL

Project # : BENZEL

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|---------------|---------------|------------|-------|--------|----------|------|
| Miscellaneous | ATTACH TO COC | | | | 06/16/13 | 1 |
| Miscellaneous | ATTACH TO COC | | | 901.1 | 06/16/13 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 06/17/13 15:41 Printed: 06/17/13 15:41

L640681-01 (GROSS GAMMA SCAN) - subcontracted to Radiation Safety Engr

L640681-01 (MISC-SUB) - subcontracted to Radiation Safety Engr

Summary of Remarks For Samples Printed
06/17/13 at 15:41:33

TSR Signing Reports: 358
R2 - Rush: Next Day

Log ALL samples for EDD (COGCC EDD). Log all PAHs as PAHSIM. DRO and DRO-SGT needed if TPH is listed twice on COC, one being TPH-GEL EXTRACT. Try not to report benzene as BDL above a 250x dilution.

Sample: L640681-01 Account: ENCANACO Received: 06/12/13 09:30 Due Date: 06/18/13 00:00 RPT Date: 06/17/13 15:41
Subbed to Radsafcaz jlc 6/12/13 PO#S18436



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Est. 1970

Quality Assurance Report
Level II

L640681

June 17, 2013

Batch number /Run number / Sample number cross reference

WG666165: R2710545: L640681-01

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



L A B S C I E N C E S

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Quality Assurance Report
Level II

L640681

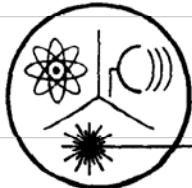
June 17, 2013

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Radiation Safety Engineering, Inc.

3245 N. WASHINGTON ST. • CHANDLER, ARIZONA 85225-1121
Website: www.radsafe.com

(480) 897-9459
FAX (480) 892-5446

Radiochemical Activity in Solid (pCi/gram)

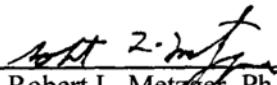
Environmental Science Corp.
12065 Lebanon Road
Mt. Juliet, TN 37122

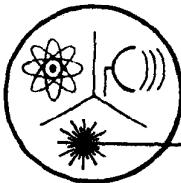
Sample Date: 6/11/2013 08:00

Received: 6/13/2013

Analyses Completed: 6/16/2013

| Sample ID | Gross Alpha Activity Method 900 (pCi/gram) | Gross Beta Activity Method 900 (pCi/gram) |
|------------------|--|---|
| L64081-01 | 16.8 ± 3.3 | 44.1 ± 4.1 |
| Date of Analysis | 6/14/2013 | 6/14/2013 |


Robert L. Metzger, Ph.D., C.H.P.



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Gamma Emitters in Soil (pCi/gram)

Environmental Science Corp.
12065 Lebanon Road
Mt. Juliet, TN 37122

Collection Date: 6/11/13

Sample Received: 6/13/13

Analysis Completed: 6/16/13

Sample ID.: L640681-01

| Nuclide | Activity Method 901.1 (pCi/gram) |
|-------------------|--|
| Potassium-40 | 8.7 ± 0.4 |
| Lead-212 | 0.3 ± 0.1 |
| Bismuth-214 | 0.2 ± 0.1 |
| Lead-214 | 0.3 ± 0.1 |
| Radium-226 | 0.3 ± 0.1 |
| Radium-228 | 0.5 ± 0.1 |
| Actinium-228 | 0.5 ± 0.1 |
| Protactinium-234M | < 3.8 |

SLT 2-2013

Robert L. Metzger, Ph.D., C.H.P.