

June 20, 2013

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

Re: Hunter 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 Hunter Mesa Water Facility.

The Hunter 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:

Mr. Brett Middleton
Hunter Mesa Filter Cake Waste Char.
June 20, 2013
Page 2 of 2

- Corrosivity (Method 9045D)
- 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								
HM-SLO-070511 and HMWT-FC-061113								
L524386-02 and L								
Sample ID								
Lab Sample ID								
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	Benidine	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-chlorethoxy)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					8270C	Fluoranthene	mg/kg	<1.6 O
7471	Mercury	mg/kg	0.042		8270C	Fluorene	mg/kg	<1.6 O
6010B	Arsenic	mg/kg	<1.0		8270C	Hexachlorobenzene	mg/kg	<17 O
6010B	Barium	mg/kg	5500		8270C	Hexachloro-1,3-butadiene	mg/kg	<17 O
6010B	Cadmium	mg/kg	<1.2	O	8270C	Hexachlorocyclopentadiene	mg/kg	<17 O
6010B	Chromium	mg/kg	26		8270C	Hexachloroethane	mg/kg	<17 O
6010B	Copper	mg/kg	60		8270C	Indeno(1,2,3-cd)pyrene	mg/kg	<1.6 O
6010B	Lead	mg/kg	10		8270C	Isophorone	mg/kg	<17 O
6010B	Nickel	mg/kg	3.7		8270C	Naphthalene	mg/kg	<1.6 O
6010B	Selenium	mg/kg	<1.0		8270C	Nitrobenzene	mg/kg	<17 O
6010B	Silver	mg/kg	<0.50		8270C	n-Nitrosodimethylamine	mg/kg	<17 O
6010B	Zinc	mg/kg	38		8270C	n-Nitrosodiphenylamine	mg/kg	<17 O
TCLP Extraction					8270C	n-Nitrosodi-n-propylamine	mg/kg	<17 O
7470A	Mercury	mg/l	<0.0010		8270C	Phenanthrene	mg/kg	<1.6 O
6010B	Arsenic	mg/l	<0.050		8270C	Benzylbutyl phthalate	mg/kg	<17 O
6010B	Barium	mg/l	0.58		8270C	Bis(2-ethylhexyl)phthalate	mg/kg	<17 O
6010B	Cadmium	mg/l	<0.050		8270C	Di-n-butyl phthalate	mg/kg	<17 O
6010B	Chromium	mg/l	<0.050		8270C	Diethyl phthalate	mg/kg	<17 O
6010B	Lead	mg/l	<0.050		8270C	Dimethyl phthalate	mg/kg	<17 O
6010B	Selenium	mg/l	<0.050		8270C	Di-n-octyl phthalate	mg/kg	<17 O
6010B	Silver	mg/l	<0.050		8270C	Pyrene	mg/kg	<1.6 O
NORM					8270C	1,2,4-Trichlorobenzene	mg/kg	<17 O
900	Gross Alpha	pCi/gram	16.8 +/- 3.3		8270C	4-Chloro-3-methylphenol	mg/kg	<17 O
900	Gross Beta	pCi/gram	44.1 +/- 4.1		8270C	2-Chlorophenol	mg/kg	<17 O
901.1	Actinium-228	pCi/gram	0.5 +/- 0.1		8270C	2,4-Dichlorophenol	mg/kg	<17 O
901.1	Bismuth-214	pCi/gram	0.2 +/- 0.1		8270C	2,4-Dimethylphenol	mg/kg	<17 O
901.1	Lead-212	pCi/gram	0.3 +/- 0.1		8270C	4,6-Dinitro-2-methylphenol	mg/kg	<17 O
901.1	Lead-214	pCi/gram	0.3 +/- 0.1		8270C	2,4-Dinitrophenol	mg/kg	<17 O
901.1	Potassium-40	pCi/gram	8.7 +/- 0.4		8270C	2-Nitrophenol	mg/kg	<17 O
901.1	Protactinium-234M	pCi/gram	<3.8		8270C	4-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: <u>Shed Johnson Rule Eng</u>		Location (Route): <u>Benzel - Hunter Mesa</u>		Date of Sample: <u>6-11-13</u>	
Sample ID:	<u>HmWP-FP-061113</u>	Time of Sample: <u>0800</u>	Lat: (WGS 84 - decimal degrees) <u>39.49925</u>	Long: (WGS 84 - decimal degrees) <u>-107.74008</u>	# of containers: <u>4</u>
					Composite or Grab: <u>comp</u>

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

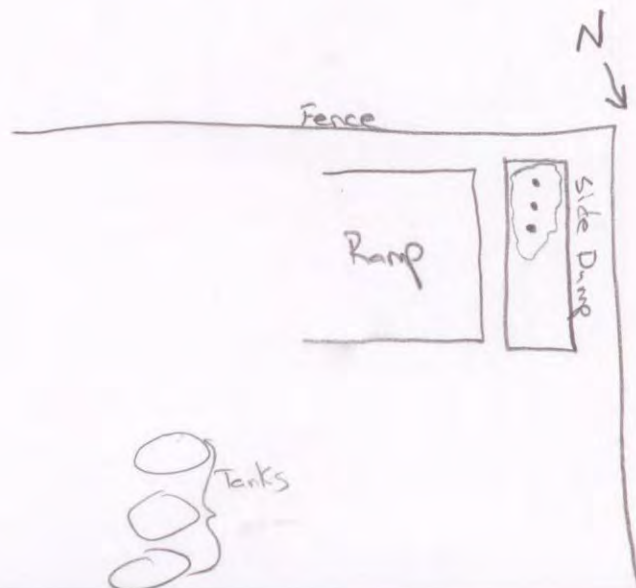
Check in
JHA

- 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 "mapsource" file using established naming format. [e.g. Walsh Sampling (01-03-2012)]

Appendix B



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:

Jayred 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.

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.
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

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-Dichloropropane	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

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
Trichloroethene	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

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.
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
Phenanthrene	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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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

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.
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	17.	5.0	mg/kg	8015D/GRO	07/08/11	50
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	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

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

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
Trichloroethene	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

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
Phenanthrene	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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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.
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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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:

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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
L524386-02	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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Encana
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
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

July 13, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
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

* Performance of this Analyte is outside of established criteria.

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



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Tax I.D. 62-0814289

Est. 1970

July 13, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
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		Limit	Batch	Date Analyzed
		Units	% Rec			
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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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
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
Benizidine	< .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		Limit	Batch	Date Analyzed
		Units	% Rec			
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
Phenanthrene	< .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					
Corrosivity		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	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	20	L524139-08	WG544656
Arsenic	mg/l	0	0		0	20	L524495-05	WG544657
Barium	mg/l	0	0		0	20	L524495-05	WG544657
Cadmium	mg/l	0	0		0	20	L524495-05	WG544657
Chromium	mg/l	0	0		0	20	L524495-05	WG544657
Lead	mg/l	0	0		0	20	L524495-05	WG544657
Selenium	mg/l	0	0		0	20	L524495-05	WG544657
Silver	mg/l	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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Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate					
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 Control Sample		% Rec	Limit	Batch
		Known Val	Result			
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 (MEK)	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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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
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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Quality Assurance Report
Level II

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Tax I.D. 62-0814289

Est. 1970

July 13, 2011

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
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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Tax I.D. 62-0814289

Est. 1970

July 13, 2011

Analyte	Units	Laboratory Control		Sample	% Rec	Limit	Batch
		Known	Val	Result			
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

July 13, 2011

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
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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Analyte	Laboratory Control Sample Duplicate				Limit	RPD	Limit	Batch
	Units	Result	Ref	%Rec				
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-Dichloropropane	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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Tax I.D. 62-0814289

Est. 1970

July 13, 2011

Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
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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Est. 1970

July 13, 2011

Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
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-Chloro-3-methylphenol	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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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
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
Benziidine	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
o-Terphenyl				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

* Performance of this Analyte is outside of established criteria.
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YOUR LAB OF CHOICE

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

Parachute, CO 81635

Quality Assurance Report
Level II

L524386

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

July 13, 2011

Analyte	Laboratory Control Sample Duplicate				Limit	RPD	Limit	Batch
	Units	Result	Ref	%Rec				
Ignitability	Deg. F	82.0	84.0	100.	93-107	2.41	20	WG545283

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
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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Est. 1970

July 13, 2011

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
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
4-Bromofluorobenzene					26.55*	59-140		WG544259
Dibromofluoromethane					171.8*	63-139		WG544259
Toluene-d8					88.51	84-116		WG544259
a,a,a-Trifluorotoluene					96.84	80-118		WG544259
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-Dichloropropene	mg/kg	0.0776	0	.025	62.1	10-149	L524672-01	WG544601
1,2,3-Trichlorobenzene	mg/kg	0.0684	0	.025	54.7	10-141	L524672-01	WG544601
1,2,3-Trichloropropene	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-Dichloropropene	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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July 13, 2011

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
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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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
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
Benidine	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
Benzybutyl 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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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

July 13, 2011

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			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	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			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
1,2,3-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-Dichloropropane	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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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	
4-Bromofluorobenzene				42.05*	59-140				WG544259	
Dibromofluoromethane				142.4*	63-139				WG544259	
Toluene-d8				93.11	84-116				WG544259	
a,a,a-Trifluorotoluene				100.1	80-118				WG544259	
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-Dichloropropene	mg/kg	0.0830	0.0776	66.4	10-149	6.68	34	L524672-01	WG544601	
1,2-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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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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Quality Assurance Report
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L524386

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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					
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

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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.

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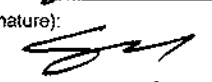
July 13, 2011

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

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.

Encana 2717 Co. Rd. 215, Ste 100 Parachute, CO 81635			Billing information:			Analysis/Container/Preservative						Chain of Custody							
			Accounts Payable- Brett Middleton 2717 Co. Rd. 215, Ste 100 Parachute, CO 81635									Page ___ of ___ <div style="text-align: center;">  ESC L-A-B S-C-I-E-N-C-E-S 12065 Lebanon Road Mt Juliet, TN 37122 Phone: (800) 767-5859 Phone: (615) 758-5858 Fax: (615) 758-5859 B087 </div>							
Report to: Brett Middleton / Brad Kieding			Email: brett.middleton@encana.com			8260HEX / GRO / Meth 4ozClr-NoPres RCRA8 + Cu, Ni, Zn 2ozClr-NoPres SV8270 / DRO 4ozClr-NoPres TCLPmetals/Paint/IGN 8ozClr-NoPres WetChem 8ozClr-NoPres						Acctnum: ENCRCO (lab use only) Template/Prelogin: 772326 P359969 Cooler #: 6/24 MB Shipped Via: FedEX Ground							
Project Description: HIGH MESA NPR SOLIDS LOAD OUT			City/State Collected: CO																
Phone: (970) 285-2739 FAX: (970) 625-4636			Client Project #: SLANNY SIDE																
Collected by (print): SCOTT MANN			Site/Facility ID#:																
Collected by (signature): 			Rush? (Lab MUST Be Notified) ___ Same Day 200% ___ Next Day 100% ___ Two Day 50% ___ Three Day 25%																
Immediately Packed on Ice N ___ Y <input checked="" type="checkbox"/>			Date Results Needed Email? ___ No <input checked="" type="checkbox"/> Yes FAX? ___ No ___ Yes																
Sample ID			Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs											
NPR-SLO-070511			COMP	TCLP	NA	7-5-11	093	5	X	X	X	X	X						
HM-SLO-070511			COMP	TCLP	NA	7-5-11	1030	5	X	X	X	X	X						
				TCLP				5	X	X	X	X	X						
				TCLP				5	X	X	X	X	X						

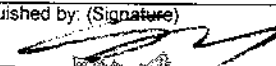


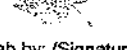

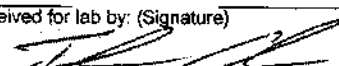
*Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other _____

Remarks: WetChem = Corr, CR3, CR6SS, ReactCN, ReactS, SAT, SPCON, ph

pH _____ Temp _____

Flow _____ Other _____

PLEASE CC: SMann@rulle-engineering.com

Relinquished by: (Signature) 	Date: 7/5/11	Time: 1730	Received by: (Signature) 	Samples returned via: <input checked="" type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: OK (lab use only)
Relinquished by: (Signature) 	Date:	Time:	Received by: (Signature) 	Temp: 10.4 Bottles Received: 10+TB	COC Seal Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA
Relinquished by: (Signature) 	Date:	Time:	Received for lab by: (Signature) 	Date: 7/6/11 Time: 0900	pH Checked: _____ NCF: _____

487555139061



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Est. 1970

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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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

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



YOUR LAB OF CHOICE

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

Parachute, CO 81635

Quality Assurance Report
Level II

L640681

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Mt. Juliet, TN 37122
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Est. 1970

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.'



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Brett Middleton
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Parachute, CO 81635

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Level II

L640681

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June 17, 2013

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

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.

Encana Oil & Gas (USA)
143 Diamond Ave.
Parachute, CO 81635

ENCRCO-RULEENG

Billing Information:

Brett Middleton
143 Diamond Ave
Parachute, CO 81635
970-285-2739
(970) 244-8500 Office
(970) 987-4650 Cell

Report to:

Brett Middleton

Email to:

brett.middleton@encana.com

Analysis/Container/Preservative

A002

Chain of Custody
Page 1 of 1



L A B S C I E N C E S

12065 Lebanon Road
Mt. Juliet, TN 37122

Phone: (800) 767-5859

Phone: (615) 758-5858

Fax: (615) 758-5859

Project Description: Hunter Mesa Water Park Filter Press

City/State
Collected

CO

Phone: 970-987-4650
FAX:

Client Project #:

Benzel

ESC Key:

ENCRCO-WASTE

Collected by: Shad Johnson

Site/Facility ID#: Benzel

P.O.#:

Collected by (signature):

Rush? (Lab MUST Be Notified)

___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%
___ Three Day..... 25%

Date Results Needed:

Email? ___ No ___ Yes

FAX? ___ No ___ Yes

No.

of

Cntrs

Immediately Packed on Ice: N

Sample ID

Comp/Grab

Matrix*

Depth

Date

Time

No.

X

HMWP-FP-061113

Comp

SS

0-12"

6-11-13

0800

4

X

Remarks/Contaminant

Sample # (lab only)

Rush 2X

2640681201

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH

Temp

Remarks:

Rush 2X

Flow

Other

541347219674

Relinquished by: (Signature)

Date:

6-11-13

Time:

1000

Received by: (Signature)

Samples returned via: ☐ UPS

☒ FedEx ☐ Courier ☐

Condition:

F (lab use only)

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp:

3.4

Bottles Received:

4-40

CoC Seals Intact: ☒ Y ☐ N ☐ NA

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

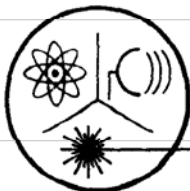
6/12/13

Time:

0930

pH Checked:

NCF:



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)

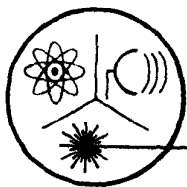
Environmental Science Corp.
12065 Lebanon Road
Mt. Juliet, TN 37122

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



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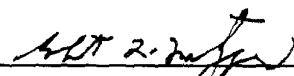
Gamma Emitters in Soil (pCi/gram)

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


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