



N07 596 (Location: 335956)
Pit (Facility: 414391)
Encana Oil & Gas (USA) Inc. (Operator: 100185)

REPORT OF WORK COMPLETED

- Form 27 (Doc: 2215229) (Rem: 5974)

Encana Oil & Gas (USA) Inc. (Encana) is submitting this Form 4 (Report of Work Completed and Notification of Completion) to document closure of a lined earthen pit on the N07 596 well pad in the North Parachute area of operation in Garfield County. The form is also being submitted to document onsite burial of cuttings within the pit footprint.

Pit closure activities were carried out in Fall, 2011. The pit was drained, and the liner and above liner solids were removed for offsite disposal. Following removal of the pit liner, below-liner soil was visually assessed with no noted staining or discoloration. Six (6) discreet grab samples were collected from the pit bottom and walls, and were analyzed for COGCC Table 910-1 constituents of concern. Based on lab results there is no evidence of a liner failure. See attached summary table and laboratory report. A composite sample of a cuttings stockpile discovered on the location was also collected and analyzed for Table 910-1 constituents of concern.

NOTIFICATION OF COMPLETION

Samples collected from below-liner soils and cuttings stockpile had no evidence of hydrocarbon impacts. The arsenic concentrations are above the allowable concentration in Table 910-1, but are within the range of background values for this area. Based on these results and Footnote 1 to COGCC Table 910-1, Encana requests that the COGCC consider the higher range of background arsenic values as the allowable concentration for this constituent.

After receipt of laboratory results demonstrating compliance for the pit excavation and cuttings stockpile, approximately 900 cubic yards of drill cuttings were placed in the bottom of the pit, and the pit was backfilled and reclaimed.

If the information provided here is satisfactory, please close the associated remediation project, and pit facility, and provide documentation of these record closures.

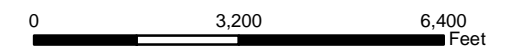
ATTACHMENTS

1. Topographic Location Map
2. Laboratory Results Summary Table
3. Laboratory Reports

encana

North Parachute Mountain

Garfield County, Colorado



1 inch = 3,000 feet

T004S-R097W

T005S-R097W

N07 596 Pad and Pit
Location ID: 335956
Facility ID: 414391
Rem#: 7741

T004S-R096W

T005S-R096W

T004S-R095W

T005S-R095W

- Encana Site Boundary
- Access Road
- Township Boundary
- Surface Ownership**
- Not Identified Below (clear)
- EnCana (transparent)
- USFS (transparent)
- BLM (transparent)



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Chris Hines / Jake Harris
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Thursday July 28, 2011

Report Number: L527324

Samples Received: 07/22/11

Client Project:

Description: N07 Pit Bottom

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 - 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.

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REPORT OF ANALYSIS

Chris Hines / Jake Harris
 EnCana Oil & Gas Inc. - CO
 2717 County Road 215, Suite 100
 Parachute, CO 81635

July 28, 2011

Date Received : July 22, 2011
 Description : N07 Pit Bottom
 Sample ID : N07-PBS-072111 4-6IN
 Collected By : Brennan Graff
 Collection Date : 07/21/11 10:04

ESC Sample # : L527324-01
 Site ID : N07
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	07/26/11	1
Chromium,Trivalent	35.	2.0	mg/kg	Calc.	07/23/11	1
ORP	87.		mV	2580	07/25/11	1
pH	8.4		su	9045D	07/23/11	1
Sodium Adsorption Ratio	25.			Calc.	07/26/11	1
Specific Conductance	1300		umhos/cm	9050AMod	07/25/11	1
Mercury	BDL	0.020	mg/kg	7471	07/23/11	1
Arsenic	9.3	1.0	mg/kg	6010B	07/23/11	1
Barium	560	0.25	mg/kg	6010B	07/23/11	1
Cadmium	0.71	0.25	mg/kg	6010B	07/23/11	1
Chromium	35.	0.50	mg/kg	6010B	07/23/11	1
Copper	21.	1.0	mg/kg	6010B	07/23/11	1
Lead	13.	0.25	mg/kg	6010B	07/23/11	1
Nickel	23.	1.0	mg/kg	6010B	07/23/11	1
Selenium	1.9	1.0	mg/kg	6010B	07/23/11	1
Silver	BDL	0.50	mg/kg	6010B	07/23/11	1
Zinc	53.	1.5	mg/kg	6010B	07/23/11	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	07/25/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	100.		% Rec.	602/8015	07/25/11	5
Methanol	BDL	0.10	mg/kg	8015M	07/22/11	1
Ethanol	BDL	0.10	mg/kg	8015M	07/22/11	1
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	07/22/11	5
Benzene	BDL	0.0050	mg/kg	8260B	07/22/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	07/22/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	07/22/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	07/22/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	07/22/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	07/22/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	07/22/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	07/22/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	07/22/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	07/22/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L527324-01 (SV8270PAHSIM) - Dilution due to matrix
 L527324-01 (PH) - 8.4@21.5c
 L527324-01 (DRO) - Previous run also had low IS/SURR recovery. Matrix effect.



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 2717 County Road 215, Suite 100
 Parachute, CO 81635

ESC Sample # : L527324-01

Date Received : July 22, 2011
 Description : N07 Pit Bottom

Site ID : N07

Sample ID : N07-PBS-072111 4-6IN

Project # :

Collected By : Brennan Graff
 Collection Date : 07/21/11 10:04

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloroform	BDL	0.025	mg/kg	8260B	07/22/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	07/22/11	5
Cyclohexane	BDL	0.0050	mg/kg	8260B	07/22/11	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	07/22/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	07/22/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	07/22/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	07/22/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	07/22/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	07/22/11	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	07/22/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	07/22/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	07/22/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	07/22/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	07/22/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	07/22/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	07/22/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	07/22/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	07/22/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	07/22/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	07/22/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	07/22/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	07/22/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	07/22/11	5
Methyl Cyclohexane	BDL	0.0050	mg/kg	8260B	07/22/11	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	07/22/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	07/22/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	07/22/11	5
Styrene	BDL	0.0050	mg/kg	8260B	07/22/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	07/22/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	07/22/11	5
Toluene	BDL	0.025	mg/kg	8260B	07/22/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	07/22/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	07/22/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	07/22/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	07/22/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	07/22/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	07/22/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	07/22/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	07/22/11	5
o-Xylene	BDL	0.0050	mg/kg	8260B	07/22/11	5
m&p-Xylene	BDL	0.010	mg/kg	8260B	07/22/11	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	07/22/11	5
Surrogate Recovery						
Toluene-d8	113.		% Rec.	8260B	07/22/11	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

L527324-01 (SV8270PAHSIM) - Dilution due to matrix

L527324-01 (PH) - 8.4@21.5c

L527324-01 (DRO) - Previous run also had low IS/SURR recovery. Matrix effect.



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REPORT OF ANALYSIS

July 28, 2011

Chris Hines / Jake Harris
 EnCana Oil & Gas Inc. - CO
 2717 County Road 215, Suite 100
 Parachute, CO 81635

ESC Sample # : L527324-01

Date Received : July 22, 2011
 Description : N07 Pit Bottom

Site ID : N07

Sample ID : N07-PBS-072111 4-6IN

Project # :

Collected By : Brennan Graff
 Collection Date : 07/21/11 10:04

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromofluoromethane	147.		% Rec.	8260B	07/22/11	5
a,a,a-Trifluorotoluene	111.		% Rec.	8260B	07/22/11	5
4-Bromofluorobenzene	76.2		% Rec.	8260B	07/22/11	5
TPH (GC/FID) High Fraction	39.	4.0	mg/kg	3546/DRO	07/27/11	1
Surrogate recovery(%)						
o-Terphenyl	48.3		% Rec.	3546/DRO	07/27/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Acenaphthene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Acenaphthylene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Benzo(a)anthracene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Benzo(a)pyrene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Benzo(b)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Benzo(g,h,i)perylene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Benzo(k)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Chrysene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Dibenz(a,h)anthracene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Fluoranthene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Fluorene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Indeno(1,2,3-cd)pyrene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Naphthalene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Phenanthrene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Pyrene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
1-Methylnaphthalene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
2-Methylnaphthalene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
2-Chloronaphthalene	BDL	0.12	mg/kg	8270C-SIM	07/23/11	20
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C-SIM	07/23/11	20
2-Fluorobiphenyl	0.00		% Rec.	8270C-SIM	07/23/11	20
p-Terphenyl-d14	0.00		% Rec.	8270C-SIM	07/23/11	20

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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L527324-01 (SV8270PAHSIM) - Dilution due to matrix

L527324-01 (PH) - 8.4@21.5c

L527324-01 (DRO) - Previous run also had low IS/SURR recovery. Matrix effect.



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REPORT OF ANALYSIS

July 28, 2011

Chris Hines / Jake Harris
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Date Received : July 22, 2011
Description : N07 Pit Bottom
Sample ID : N07-PWW-072111 3-5IN
Collected By : Brennan Graff
Collection Date : 07/21/11 10:10

ESC Sample # : L527324-02
Site ID : N07
Project # :

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) o-Terphenyl.

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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L527324-02 (DRO) - Previous run also had low SURR recovery. Matrix effect.



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REPORT OF ANALYSIS

July 28, 2011

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 2717 County Road 215, Suite 100
 Parachute, CO 81635

Date Received : July 22, 2011
 Description : N07 Pit Bottom
 Sample ID : N07-PB-072111 3-5IN
 Collected By : Brennan Graff
 Collection Date : 07/21/11 10:14

ESC Sample # : L527324-03
 Site ID : N07
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	07/22/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.8		% Rec.	602/8015	07/22/11	5
TPH (GC/FID) High Fraction	23.	4.0	mg/kg	3546/DRO	07/25/11	1
Surrogate recovery(%) o-Terphenyl	12.2		% Rec.	3546/DRO	07/25/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/28/11 14:32 Printed: 07/28/11 14:32

L527324-03 (DRO) - Previous run also had low SURR recovery. Matrix effect.



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2717 County Road 215, Suite 100
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Date Received : July 22, 2011
Description : N07 Pit Bottom
Sample ID : N07-PBNE-072111 4-6IN
Collected By : Brennan Graff
Collection Date : 07/21/11 10:16

ESC Sample # : L527324-04
Site ID : N07
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	07/22/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.0		% Rec.	602/8015	07/22/11	5
TPH (GC/FID) High Fraction	30.	4.0	mg/kg	3546/DRO	07/25/11	1
Surrogate recovery(%) o-Terphenyl	13.8		% Rec.	3546/DRO	07/25/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/28/11 14:32 Printed: 07/28/11 14:32

L527324-04 (DRO) - Previous run also had low SURR recovery. Matrix effect.



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REPORT OF ANALYSIS

July 28, 2011

Chris Hines / Jake Harris
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

ESC Sample # : L527324-05

Date Received : July 22, 2011
Description : N07 Pit Bottom

Site ID : N07

Sample ID : N07-PWN-072111 4-6IN

Project # :

Collected By : Brennan Graff
Collection Date : 07/21/11 10:21

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) o-Terphenyl.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/28/11 14:32 Printed: 07/28/11 14:32

L527324-05 (DRO) - Previous run also had low SURR recovery. Matrix effect.



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REPORT OF ANALYSIS

July 28, 2011

Chris Hines / Jake Harris
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

ESC Sample # : L527324-06

Date Received : July 22, 2011
Description : N07 Pit Bottom

Site ID : N07

Sample ID : N07-PWE-072111 8-10IN

Project # :

Collected By : Brennan Graff
Collection Date : 07/21/11 10:25

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) o-Terphenyl.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/28/11 14:32 Printed: 07/28/11 14:32

L527324-06 (DRO) - Previous run also had low SURR recovery. Matrix effect.

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier	
L527324-01	WG546951	SAMP	Anthracene	R1778970	O	
	WG546951	SAMP	Acenaphthene	R1778970	O	
	WG546951	SAMP	Acenaphthylene	R1778970	O	
	WG546951	SAMP	Benzo(a)anthracene	R1778970	O	
	WG546951	SAMP	Benzo(a)pyrene	R1778970	O	
	WG546951	SAMP	Benzo(b)fluoranthene	R1778970	O	
	WG546951	SAMP	Benzo(g,h,i)perylene	R1778970	O	
	WG546951	SAMP	Benzo(k)fluoranthene	R1778970	O	
	WG546951	SAMP	Chrysene	R1778970	O	
	WG546951	SAMP	Dibenz(a,h)anthracene	R1778970	O	
	WG546951	SAMP	Fluoranthene	R1778970	O	
	WG546951	SAMP	Fluorene	R1778970	O	
	WG546951	SAMP	Indeno(1,2,3-cd)pyrene	R1778970	O	
	WG546951	SAMP	Naphthalene	R1778970	O	
	WG546951	SAMP	Phenanthrene	R1778970	O	
	WG546951	SAMP	Pyrene	R1778970	O	
	WG546951	SAMP	1-Methylnaphthalene	R1778970	O	
	WG546951	SAMP	2-Methylnaphthalene	R1778970	O	
	WG546951	SAMP	2-Chloronaphthalene	R1778970	O	
	WG546951	SAMP	Nitrobenzene-d5	R1778970	J7	
	WG546951	SAMP	2-Fluorobiphenyl	R1778970	J7	
	WG546951	SAMP	p-Terphenyl-d14	R1778970	J7	
	WG546910	SAMP	Dibromofluoromethane	R1777950	J1	
	WG547075	SAMP	o-Terphenyl	R1787510	J2	
	L527324-02	WG547176	SAMP	o-Terphenyl	R1782192	J2
	L527324-03	WG547176	SAMP	o-Terphenyl	R1782192	J2
	L527324-04	WG547176	SAMP	o-Terphenyl	R1782192	J2
	L527324-05	WG547176	SAMP	o-Terphenyl	R1782192	J2
	L527324-06	WG547176	SAMP	o-Terphenyl	R1782192	J2

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
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.

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
07/28/11 at 14:32:51

TSR Signing Reports: 358
R4 - Rush: Three Day

Sample: L527324-01 Account: ENCANACO Received: 07/22/11 09:00 Due Date: 08/04/11 00:00 RPT Date: 07/28/11 14:32

Sample: L527324-02 Account: ENCANACO Received: 07/22/11 09:00 Due Date: 08/04/11 00:00 RPT Date: 07/28/11 14:32
added SV8270PAHSIM and changed due date to 8/4 per AH - JCR 7/28 PAHSIM removed per Jake
Harris. 7/28/11 TAH

Sample: L527324-03 Account: ENCANACO Received: 07/22/11 09:00 Due Date: 08/04/11 00:00 RPT Date: 07/28/11 14:32
added SV8270PAHSIM and changed due date to 8/4 per AH - JCR 7/28 PAHSIM removed per Jake
Harris. 7/28/11 TAH

Sample: L527324-04 Account: ENCANACO Received: 07/22/11 09:00 Due Date: 08/04/11 00:00 RPT Date: 07/28/11 14:32
added SV8270PAHSIM and changed due date to 8/4 per AH - JCR 7/28 PAHSIM removed per Jake
Harris. 7/28/11 TAH

Sample: L527324-05 Account: ENCANACO Received: 07/22/11 09:00 Due Date: 08/04/11 00:00 RPT Date: 07/28/11 14:32
added SV8270PAHSIM and changed due date to 8/4 per AH - JCR 7/28 PAHSIM removed per Jake
Harris. 7/28/11 TAH

Sample: L527324-06 Account: ENCANACO Received: 07/22/11 09:00 Due Date: 08/04/11 00:00 RPT Date: 07/28/11 14:32
added SV8270PAHSIM and changed due date to 8/4 per AH - JCR 7/28 PAHSIM removed per Jake
Harris. 7/28/11 TAH



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Tax I.D. 62-0814289

Est. 1970

July 28, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
1,1,1-Trichloroethane	< .001	mg/kg			WG546910	07/22/11 11:36
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG546910	07/22/11 11:36
1,1,2-Trichloroethane	< .001	mg/kg			WG546910	07/22/11 11:36
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg			WG546910	07/22/11 11:36
1,1-Dichloroethane	< .001	mg/kg			WG546910	07/22/11 11:36
1,1-Dichloroethene	< .001	mg/kg			WG546910	07/22/11 11:36
1,2,3-Trichlorobenzene	< .001	mg/kg			WG546910	07/22/11 11:36
1,2,4-Trichlorobenzene	< .001	mg/kg			WG546910	07/22/11 11:36
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG546910	07/22/11 11:36
1,2-Dibromoethane	< .001	mg/kg			WG546910	07/22/11 11:36
1,2-Dichlorobenzene	< .001	mg/kg			WG546910	07/22/11 11:36
1,2-Dichloroethane	< .001	mg/kg			WG546910	07/22/11 11:36
1,2-Dichloropropane	< .001	mg/kg			WG546910	07/22/11 11:36
1,3-Dichlorobenzene	< .001	mg/kg			WG546910	07/22/11 11:36
1,4-Dichlorobenzene	< .001	mg/kg			WG546910	07/22/11 11:36
2-Butanone (MEK)	< .01	mg/kg			WG546910	07/22/11 11:36
2-Hexanone	< .01	mg/kg			WG546910	07/22/11 11:36
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG546910	07/22/11 11:36
Acetone	< .05	mg/kg			WG546910	07/22/11 11:36
Benzene	< .001	mg/kg			WG546910	07/22/11 11:36
Bromochloromethane	< .001	mg/kg			WG546910	07/22/11 11:36
Bromodichloromethane	< .001	mg/kg			WG546910	07/22/11 11:36
Bromoform	< .001	mg/kg			WG546910	07/22/11 11:36
Bromomethane	< .005	mg/kg			WG546910	07/22/11 11:36
Carbon disulfide	< .001	mg/kg			WG546910	07/22/11 11:36
Carbon tetrachloride	< .001	mg/kg			WG546910	07/22/11 11:36
Chlorobenzene	< .001	mg/kg			WG546910	07/22/11 11:36
Chlorodibromomethane	< .001	mg/kg			WG546910	07/22/11 11:36
Chloroethane	< .005	mg/kg			WG546910	07/22/11 11:36
Chloroform	< .005	mg/kg			WG546910	07/22/11 11:36
Chloromethane	< .0025	mg/kg			WG546910	07/22/11 11:36
cis-1,2-Dichloroethene	< .001	mg/kg			WG546910	07/22/11 11:36
cis-1,3-Dichloropropene	< .001	mg/kg			WG546910	07/22/11 11:36
Cyclohexane	< .001	mg/kg			WG546910	07/22/11 11:36
Dichlorodifluoromethane	< .005	mg/kg			WG546910	07/22/11 11:36
Ethylbenzene	< .001	mg/kg			WG546910	07/22/11 11:36
Isopropylbenzene	< .001	mg/kg			WG546910	07/22/11 11:36
m&p-Xylene	< .002	mg/kg			WG546910	07/22/11 11:36
Methyl Acetate	< .02	mg/kg			WG546910	07/22/11 11:36
Methyl Cyclohexane	< .001	mg/kg			WG546910	07/22/11 11:36
Methyl tert-butyl ether	< .001	mg/kg			WG546910	07/22/11 11:36
Methylene Chloride	< .005	mg/kg			WG546910	07/22/11 11:36
n-Hexane	< .01	mg/kg			WG546910	07/22/11 11:36
o-Xylene	< .001	mg/kg			WG546910	07/22/11 11:36
Styrene	< .001	mg/kg			WG546910	07/22/11 11:36
Tetrachloroethene	< .001	mg/kg			WG546910	07/22/11 11:36
Toluene	< .005	mg/kg			WG546910	07/22/11 11:36
trans-1,2-Dichloroethene	< .001	mg/kg			WG546910	07/22/11 11:36
trans-1,3-Dichloropropene	< .001	mg/kg			WG546910	07/22/11 11:36
Trichloroethene	< .001	mg/kg			WG546910	07/22/11 11:36
Trichlorofluoromethane	< .005	mg/kg			WG546910	07/22/11 11:36
Vinyl chloride	< .001	mg/kg			WG546910	07/22/11 11:36
Xylenes, Total	< .003	mg/kg			WG546910	07/22/11 11:36
4-Bromofluorobenzene		% Rec.	77.98	59-140	WG546910	07/22/11 11:36
Dibromofluoromethane		% Rec.	131.7	63-139	WG546910	07/22/11 11:36
Toluene-d8		% Rec.	108.9	84-116	WG546910	07/22/11 11:36
a,a,a-Trifluorotoluene		% Rec.	107.4	80-118	WG546910	07/22/11 11:36

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Est. 1970

July 28, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
1-Methylnaphthalene	< .006	mg/kg			WG546951	07/22/11 23:24
2-Chloronaphthalene	< .006	mg/kg			WG546951	07/22/11 23:24
2-Methylnaphthalene	< .006	mg/kg			WG546951	07/22/11 23:24
Acenaphthene	< .006	mg/kg			WG546951	07/22/11 23:24
Acenaphthylene	< .006	mg/kg			WG546951	07/22/11 23:24
Anthracene	< .006	mg/kg			WG546951	07/22/11 23:24
Benzo(a)anthracene	< .006	mg/kg			WG546951	07/22/11 23:24
Benzo(a)pyrene	< .006	mg/kg			WG546951	07/22/11 23:24
Benzo(b)fluoranthene	< .006	mg/kg			WG546951	07/22/11 23:24
Benzo(g,h,i)perylene	< .006	mg/kg			WG546951	07/22/11 23:24
Benzo(k)fluoranthene	< .006	mg/kg			WG546951	07/22/11 23:24
Chrysene	< .006	mg/kg			WG546951	07/22/11 23:24
Dibenz(a,h)anthracene	< .006	mg/kg			WG546951	07/22/11 23:24
Fluoranthene	< .006	mg/kg			WG546951	07/22/11 23:24
Fluorene	< .006	mg/kg			WG546951	07/22/11 23:24
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG546951	07/22/11 23:24
Naphthalene	< .006	mg/kg			WG546951	07/22/11 23:24
Phenanthrene	< .006	mg/kg			WG546951	07/22/11 23:24
Pyrene	< .006	mg/kg			WG546951	07/22/11 23:24
2-Fluorobiphenyl		% Rec.	73.12	34-129	WG546951	07/22/11 23:24
Nitrobenzene-d5		% Rec.	70.35	14-141	WG546951	07/22/11 23:24
p-Terphenyl-d14		% Rec.	74.00	25-139	WG546951	07/22/11 23:24
Ethanol	< .1	mg/kg			WG546892	07/22/11 11:33
Methanol	< .1	mg/kg			WG546892	07/22/11 11:33
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG546911	07/22/11 13:52
a,a,a-Trifluorotoluene(FID)		% Rec.	100.9	59-128	WG546911	07/22/11 13:52
pH	4.20	su			WG546997	07/23/11 16:30
Arsenic	< 1	mg/kg			WG546924	07/23/11 10:10
Barium	< .25	mg/kg			WG546924	07/23/11 10:10
Cadmium	< .25	mg/kg			WG546924	07/23/11 10:10
Chromium	< .5	mg/kg			WG546924	07/23/11 10:10
Copper	< 1	mg/kg			WG546924	07/23/11 10:10
Lead	< .25	mg/kg			WG546924	07/23/11 10:10
Nickel	< 1	mg/kg			WG546924	07/23/11 10:10
Selenium	< 1	mg/kg			WG546924	07/23/11 10:10
Silver	< .5	mg/kg			WG546924	07/23/11 10:10
Zinc	< 1.5	mg/kg			WG546924	07/23/11 10:10
Mercury	< .02	mg/kg			WG546851	07/23/11 12:58
TPH (GC/FID) High Fraction	< 4	ppm			WG547176	07/25/11 09:11
o-Terphenyl		% Rec.	78.38	50-150	WG547176	07/25/11 09:11
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG547266	07/25/11 13:49
a,a,a-Trifluorotoluene(FID)		% Rec.	102.3	59-128	WG547266	07/25/11 13:49
Specific Conductance	1.80	umhos/cm			WG547164	07/25/11 23:29

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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Chromium,Hexavalent	< 2	mg/kg			WG547008	07/26/11 11:06
TPH (GC/FID) High Fraction	< 4	ppm			WG547075	07/27/11 14:15
o-Terphenyl		% Rec.	84.31	50-150	WG547075	07/27/11 14:15

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
pH	su	8.70	8.80	1.14*	1	L526755-01	WG546997
pH	su	8.40	8.40	0	1	L527324-01	WG546997
Barium	mg/kg	3900	3200	19.7	20	L527269-01	WG546924
Cadmium	mg/kg	0.790	0.910	14.1	20	L527269-01	WG546924
Chromium	mg/kg	19.0	20.0	7.25	20	L527269-01	WG546924
Copper	mg/kg	26.0	25.0	2.76	20	L527269-01	WG546924
Lead	mg/kg	29.0	23.0	21.7*	20	L527269-01	WG546924
Silver	mg/kg	0	0	0	20	L527269-01	WG546924
Zinc	mg/kg	60.0	57.0	5.79	20	L527269-01	WG546924
Arsenic	mg/kg	11.0	9.50	14.6	20	L527269-01	WG546924
Nickel	mg/kg	17.0	18.0	4.55	20	L527269-01	WG546924
Selenium	mg/kg	0	0	0	20	L527269-01	WG546924
Mercury	mg/kg	0.120	0.120	0.830	20	L527261-01	WG546851
Specific Conductance	umhos/cm	1500	1400	6.90	20	L527636-01	WG547164
ORP	mV	85.0	84.0	1.18	20	L527636-01	WG547165
Chromium,Hexavalent	mg/kg	120.	120.	0.971	20	L527071-14	WG547008

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
1,1,1-Trichloroethane	mg/kg	.025	0.0268	107.	62-135	WG546910
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0280	112.	74-129	WG546910
1,1,2-Trichloroethane	mg/kg	.025	0.0255	102.	77-124	WG546910
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.025	0.0309	124.	49-155	WG546910
1,1-Dichloroethane	mg/kg	.025	0.0252	101.	61-134	WG546910
1,1-Dichloroethene	mg/kg	.025	0.0235	94.0	53-136	WG546910
1,2,3-Trichlorobenzene	mg/kg	.025	0.0240	96.2	62-146	WG546910
1,2,4-Trichlorobenzene	mg/kg	.025	0.0221	88.5	61-148	WG546910
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0263	105.	61-134	WG546910
1,2-Dibromoethane	mg/kg	.025	0.0239	95.5	76-127	WG546910
1,2-Dichlorobenzene	mg/kg	.025	0.0248	99.3	77-123	WG546910
1,2-Dichloroethane	mg/kg	.025	0.0277	111.	58-141	WG546910
1,2-Dichloropropane	mg/kg	.025	0.0259	104.	71-128	WG546910
1,3-Dichlorobenzene	mg/kg	.025	0.0256	102.	71-132	WG546910
1,4-Dichlorobenzene	mg/kg	.025	0.0244	97.7	72-123	WG546910
2-Butanone (MEK)	mg/kg	.125	0.138	110.	51-131	WG546910
2-Hexanone	mg/kg	.125	0.137	110.	62-145	WG546910
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.149	119.	61-143	WG546910
Acetone	mg/kg	.125	0.134	107.	44-140	WG546910
Benzene	mg/kg	.025	0.0258	103.	65-128	WG546910

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Est. 1970

July 28, 2011

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Bromochloromethane	mg/kg	.025	0.0265	106.	73-130	WG546910
Bromodichloromethane	mg/kg	.025	0.0293	117.	66-126	WG546910
Bromoform	mg/kg	.025	0.0239	95.7	64-139	WG546910
Bromomethane	mg/kg	.025	0.0365	146.	41-175	WG546910
Carbon disulfide	mg/kg	.025	0.0195	78.1	36-161	WG546910
Carbon tetrachloride	mg/kg	.025	0.0272	109.	60-140	WG546910
Chlorobenzene	mg/kg	.025	0.0235	94.1	75-125	WG546910
Chlorodibromomethane	mg/kg	.025	0.0269	108.	72-137	WG546910
Chloroethane	mg/kg	.025	0.0272	109.	44-159	WG546910
Chloroform	mg/kg	.025	0.0278	111.	63-123	WG546910
Chloromethane	mg/kg	.025	0.0250	100.	42-149	WG546910
cis-1,2-Dichloroethene	mg/kg	.025	0.0247	98.6	71-129	WG546910
cis-1,3-Dichloropropene	mg/kg	.025	0.0273	109.	73-132	WG546910
Dichlorodifluoromethane	mg/kg	.025	0.0264	105.	26-186	WG546910
Ethylbenzene	mg/kg	.025	0.0244	97.5	74-128	WG546910
Isopropylbenzene	mg/kg	.025	0.0245	98.1	73-130	WG546910
m&p-Xylene	mg/kg	.05	0.0485	97.0	73-127	WG546910
Methyl tert-butyl ether	mg/kg	.025	0.0260	104.	44-148	WG546910
Methylene Chloride	mg/kg	.025	0.0230	92.0	57-129	WG546910
n-Hexane	mg/kg	.025	0.0212	84.9	28-169	WG546910
o-Xylene	mg/kg	.025	0.0236	94.5	75-129	WG546910
Styrene	mg/kg	.025	0.0231	92.5	76-133	WG546910
Tetrachloroethene	mg/kg	.025	0.0224	89.6	65-135	WG546910
Toluene	mg/kg	.025	0.0249	99.4	70-120	WG546910
trans-1,2-Dichloroethene	mg/kg	.025	0.0212	84.7	61-133	WG546910
trans-1,3-Dichloropropene	mg/kg	.025	0.0252	101.	70-135	WG546910
Trichloroethene	mg/kg	.025	0.0232	92.7	71-126	WG546910
Trichlorofluoromethane	mg/kg	.025	0.0311	125.	52-147	WG546910
Vinyl chloride	mg/kg	.025	0.0240	96.0	50-151	WG546910
Xylenes, Total	mg/kg	.075	0.0721	96.2	74-127	WG546910
4-Bromofluorobenzene				93.30	59-140	WG546910
Dibromofluoromethane				110.4	63-139	WG546910
Toluene-d8				109.9	84-116	WG546910
a,a,a-Trifluorotoluene				101.8	80-118	WG546910
1-Methylnaphthalene	mg/kg	.033	0.0239	72.3	48-113	WG546951
2-Chloronaphthalene	mg/kg	.033	0.0243	73.5	51-114	WG546951
2-Methylnaphthalene	mg/kg	.033	0.0240	72.8	44-109	WG546951
Acenaphthene	mg/kg	.033	0.0254	77.0	52-108	WG546951
Acenaphthylene	mg/kg	.033	0.0257	77.8	51-110	WG546951
Anthracene	mg/kg	.033	0.0262	79.5	58-120	WG546951
Benzo(a)anthracene	mg/kg	.033	0.0280	84.9	54-110	WG546951
Benzo(a)pyrene	mg/kg	.033	0.0256	77.5	56-118	WG546951
Benzo(b)fluoranthene	mg/kg	.033	0.0252	76.5	55-114	WG546951
Benzo(g,h,i)perylene	mg/kg	.033	0.0290	88.0	48-130	WG546951
Benzo(k)fluoranthene	mg/kg	.033	0.0250	75.6	55-122	WG546951
Chrysene	mg/kg	.033	0.0250	75.8	57-118	WG546951
Dibenz(a,h)anthracene	mg/kg	.033	0.0275	83.4	53-122	WG546951
Fluoranthene	mg/kg	.033	0.0255	77.2	58-118	WG546951
Fluorene	mg/kg	.033	0.0253	76.8	54-109	WG546951
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0280	84.7	51-125	WG546951
Naphthalene	mg/kg	.033	0.0230	69.7	45-105	WG546951
Phenanthrene	mg/kg	.033	0.0264	79.9	53-114	WG546951
Pyrene	mg/kg	.033	0.0281	85.1	53-121	WG546951
2-Fluorobiphenyl				75.04	34-129	WG546951
Nitrobenzene-d5				70.45	14-141	WG546951
p-Terphenyl-d14				78.55	25-139	WG546951

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Parachute, CO 81635

Quality Assurance Report
Level II

L527324

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 28, 2011

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Ethanol	mg/kg	.5	0.428	85.6	70-130	WG546892
Methanol	mg/kg	.5	0.378	75.7	70-130	WG546892
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.08	111.	67-135	WG546911
a,a,a-Trifluorotoluene(FID)				107.9	59-128	WG546911
pH	su	6.3	6.30	100.	97.98-102.02	WG546997
Arsenic	mg/kg	192	173.	90.1	78.6-120.8	WG546924
Barium	mg/kg	420	376.	89.5	78.8-121.4	WG546924
Cadmium	mg/kg	70.1	70.3	100.	78.5-121.5	WG546924
Chromium	mg/kg	168	169.	101.	80.4-120.2	WG546924
Copper	mg/kg	122	124.	102.	81.6-119.7	WG546924
Lead	mg/kg	113	104.	92.0	77.3-122.1	WG546924
Nickel	mg/kg	74.1	82.4	111.	78.8-121.2	WG546924
Selenium	mg/kg	176	176.	100.	75.6-125.0	WG546924
Silver	mg/kg	115	107.	93.0	66-133.9	WG546924
Zinc	mg/kg	437	412.	94.3	78.5-121.7	WG546924
Mercury	mg/kg	8.77	10.6	121.	71.6-127.7	WG546851
TPH (GC/FID) High Fraction	ppm	60	55.6	92.7	50-150	WG547176
o-Terphenyl				74.57	50-150	WG547176
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.91	107.	67-135	WG547266
a,a,a-Trifluorotoluene(FID)				110.4	59-128	WG547266
Specific Conductance	umhos/cm	445	440.	98.9	85-115	WG547164
ORP	mV	229	230.	100.	95.6-104.37	WG547165
Chromium,Hexavalent	mg/kg	132	91.8	69.5	50-150	WG547008
TPH (GC/FID) High Fraction	ppm	60	49.2	82.0	50-150	WG547075
o-Terphenyl				75.40	50-150	WG547075

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
1,1,1-Trichloroethane	mg/kg	0.0256	0.0268	102.	62-135	4.36	20	WG546910
1,1,2,2-Tetrachloroethane	mg/kg	0.0269	0.0280	107.	74-129	4.08	20	WG546910
1,1,2-Trichloroethane	mg/kg	0.0253	0.0255	101.	77-124	1.05	20	WG546910
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0285	0.0309	114.	49-155	8.40	20	WG546910
1,1-Dichloroethane	mg/kg	0.0243	0.0252	97.0	61-134	3.44	20	WG546910
1,1-Dichloroethene	mg/kg	0.0219	0.0235	87.0	53-136	7.20	20	WG546910
1,2,3-Trichlorobenzene	mg/kg	0.0231	0.0240	92.0	62-146	3.86	20	WG546910
1,2,4-Trichlorobenzene	mg/kg	0.0217	0.0221	87.0	61-148	1.67	20	WG546910
1,2-Dibromo-3-Chloropropane	mg/kg	0.0245	0.0263	98.0	61-134	7.25	21	WG546910

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Analyte	Units	Laboratory Control		Sample Duplicate	Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
1,2-Dibromoethane	mg/kg	0.0230	0.0239	92.0	76-127	3.78	20	WG546910
1,2-Dichlorobenzene	mg/kg	0.0240	0.0248	96.0	77-123	3.36	20	WG546910
1,2-Dichloroethane	mg/kg	0.0267	0.0277	107.	58-141	3.54	20	WG546910
1,2-Dichloropropane	mg/kg	0.0249	0.0259	100.	71-128	4.14	20	WG546910
1,3-Dichlorobenzene	mg/kg	0.0247	0.0256	99.0	71-132	3.43	20	WG546910
1,4-Dichlorobenzene	mg/kg	0.0229	0.0244	92.0	72-123	6.38	20	WG546910
2-Butanone (MEK)	mg/kg	0.122	0.138	98.0	51-131	12.1	25	WG546910
2-Hexanone	mg/kg	0.125	0.137	100.	62-145	9.23	23	WG546910
4-Methyl-2-pentanone (MIBK)	mg/kg	0.137	0.149	110.	61-143	8.51	23	WG546910
Acetone	mg/kg	0.123	0.134	99.0	44-140	8.25	25	WG546910
Benzene	mg/kg	0.0246	0.0258	98.0	65-128	5.10	20	WG546910
Bromochloromethane	mg/kg	0.0254	0.0265	102.	73-130	4.16	20	WG546910
Bromodichloromethane	mg/kg	0.0277	0.0293	111.	66-126	5.27	20	WG546910
Bromoform	mg/kg	0.0230	0.0239	92.0	64-139	4.01	20	WG546910
Bromomethane	mg/kg	0.0334	0.0365	134.	41-175	8.91	20	WG546910
Carbon disulfide	mg/kg	0.0179	0.0195	72.0	36-161	8.71	20	WG546910
Carbon tetrachloride	mg/kg	0.0252	0.0272	101.	60-140	7.44	20	WG546910
Chlorobenzene	mg/kg	0.0228	0.0235	91.0	75-125	2.98	20	WG546910
Chlorodibromomethane	mg/kg	0.0263	0.0269	105.	72-137	2.20	20	WG546910
Chloroethane	mg/kg	0.0255	0.0272	102.	44-159	6.45	20	WG546910
Chloroform	mg/kg	0.0266	0.0278	106.	63-123	4.62	20	WG546910
Chloromethane	mg/kg	0.0233	0.0250	93.0	42-149	7.10	20	WG546910
cis-1,2-Dichloroethene	mg/kg	0.0241	0.0247	96.0	71-129	2.29	20	WG546910
cis-1,3-Dichloropropene	mg/kg	0.0262	0.0273	105.	73-132	4.21	20	WG546910
Dichlorodifluoromethane	mg/kg	0.0244	0.0264	98.0	26-186	7.69	22	WG546910
Ethylbenzene	mg/kg	0.0235	0.0244	94.0	74-128	3.50	20	WG546910
Isopropylbenzene	mg/kg	0.0237	0.0245	95.0	73-130	3.30	20	WG546910
m&p-Xylene	mg/kg	0.0463	0.0485	92.0	73-127	4.71	20	WG546910
Methyl tert-butyl ether	mg/kg	0.0249	0.0260	100.	44-148	4.32	20	WG546910
Methylene Chloride	mg/kg	0.0220	0.0230	88.0	57-129	4.34	20	WG546910
n-Hexane	mg/kg	0.0199	0.0212	80.0	28-169	6.47	20	WG546910
o-Xylene	mg/kg	0.0233	0.0236	93.0	75-129	1.34	20	WG546910
Styrene	mg/kg	0.0221	0.0231	88.0	76-133	4.50	20	WG546910
Tetrachloroethene	mg/kg	0.0212	0.0224	85.0	65-135	5.64	20	WG546910
Toluene	mg/kg	0.0238	0.0249	95.0	70-120	4.44	20	WG546910
trans-1,2-Dichloroethene	mg/kg	0.0208	0.0212	83.0	61-133	1.78	20	WG546910
trans-1,3-Dichloropropene	mg/kg	0.0245	0.0252	98.0	70-135	3.12	20	WG546910
Trichloroethene	mg/kg	0.0222	0.0232	89.0	71-126	4.26	20	WG546910
Trichlorofluoromethane	mg/kg	0.0283	0.0311	113.	52-147	9.71	20	WG546910
Vinyl chloride	mg/kg	0.0224	0.0240	90.0	50-151	6.94	20	WG546910
Xylenes, Total	mg/kg	0.0696	0.0721	93.0	74-127	3.59	20	WG546910
4-Bromofluorobenzene				95.03	59-140			WG546910
Dibromofluoromethane				108.2	63-139			WG546910
Toluene-d8				109.4	84-116			WG546910
a,a,a-Trifluorotoluene				101.2	80-118			WG546910
1-Methylnaphthalene	mg/kg	0.0237	0.0239	72.0	48-113	0.657	24	WG546951
2-Chloronaphthalene	mg/kg	0.0236	0.0243	71.0	51-114	2.84	24	WG546951
2-Methylnaphthalene	mg/kg	0.0240	0.0240	73.0	44-109	0.0348	24	WG546951
Acenaphthene	mg/kg	0.0238	0.0254	72.0	52-108	6.33	22	WG546951
Acenaphthylene	mg/kg	0.0244	0.0257	74.0	51-110	5.17	21	WG546951
Anthracene	mg/kg	0.0260	0.0262	79.0	58-120	0.959	20	WG546951
Benzo(a)anthracene	mg/kg	0.0279	0.0280	84.0	54-110	0.575	22	WG546951
Benzo(a)pyrene	mg/kg	0.0265	0.0256	80.0	56-118	3.32	21	WG546951
Benzo(b)fluoranthene	mg/kg	0.0273	0.0252	83.0	55-114	7.92	20	WG546951
Benzo(g,h,i)perylene	mg/kg	0.0305	0.0290	92.0	48-130	4.83	20	WG546951
Benzo(k)fluoranthene	mg/kg	0.0243	0.0250	74.0	55-122	2.46	25	WG546951
Chrysene	mg/kg	0.0267	0.0250	81.0	57-118	6.33	20	WG546951

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Quality Assurance Report
 Level II

Parachute, CO 81635

July 28, 2011

L527324

Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
Dibenz(a,h)anthracene	mg/kg	0.0288	0.0275	87.0		53-122	4.57	20	WG546951
Fluoranthene	mg/kg	0.0250	0.0255	76.0		58-118	1.75	20	WG546951
Fluorene	mg/kg	0.0246	0.0253	74.0		54-109	3.04	20	WG546951
Indeno(1,2,3-cd)pyrene	mg/kg	0.0289	0.0280	88.0		51-125	3.47	21	WG546951
Naphthalene	mg/kg	0.0222	0.0230	67.0		45-105	3.35	24	WG546951
Phenanthrene	mg/kg	0.0256	0.0264	77.0		53-114	3.14	20	WG546951
Pyrene	mg/kg	0.0279	0.0281	84.0		53-121	0.838	20	WG546951
2-Fluorobiphenyl				70.51		34-129			WG546951
Nitrobenzene-d5				67.08		14-141			WG546951
p-Terphenyl-d14				79.07		25-139			WG546951
Ethanol	mg/kg	0.467	0.428	93.0		70-130	8.77	20	WG546892
Methanol	mg/kg	0.409	0.378	82.0		70-130	7.86	20	WG546892
TPH (GC/FID) Low Fraction	mg/kg	6.11	6.08	111.		67-135	0.450	20	WG546911
a,a,a-Trifluorotoluene(FID)				108.5		59-128			WG546911
pH	su	6.30	6.30	100.		97.98-102.02	0	20	WG546997
TPH (GC/FID) High Fraction	ppm	57.3	55.6	95.0		50-150	2.97	20	WG547176
o-Terphenyl				75.90		50-150			WG547176
TPH (GC/FID) Low Fraction	mg/kg	6.35	5.91	115.		67-135	7.18	20	WG547266
a,a,a-Trifluorotoluene(FID)				110.3		59-128			WG547266
Specific Conductance	umhos/	440.	440.	99.0		85-115	0	20	WG547164
ORP	mV	240.	230.	105*		95.6-104.37	4.26	20	WG547165
Chromium,Hexavalent	mg/kg	93.4	91.8	71.0		50-150	1.73	20	WG547008
TPH (GC/FID) High Fraction	ppm	49.4	49.2	82.0		50-150	0.376	25	WG547075
o-Terphenyl				79.38		50-150			WG547075

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
1,1,1-Trichloroethane	mg/kg	1.22	0	.025	96.9	23-147	L526194-04	WG546910
1,1,2,2-Tetrachloroethane	mg/kg	1.16	0	.025	92.2	18-150	L526194-04	WG546910
1,1,2-Trichloroethane	mg/kg	1.13	0	.025	89.6	35-140	L526194-04	WG546910
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	1.37	0	.025	108.	10-145	L526194-04	WG546910
1,1-Dichloroethane	mg/kg	1.18	0	.025	93.2	24-148	L526194-04	WG546910
1,1-Dichloroethene	mg/kg	1.05	0	.025	83.3	10-149	L526194-04	WG546910
1,2,3-Trichlorobenzene	mg/kg	1.14	0	.025	90.0	10-129	L526194-04	WG546910
1,2,4-Trichlorobenzene	mg/kg	1.08	0	.025	85.9	10-119	L526194-04	WG546910
1,2-Dibromo-3-Chloropropane	mg/kg	1.10	0	.025	87.1	19-145	L526194-04	WG546910
1,2-Dibromoethane	mg/kg	1.03	0	.025	81.9	24-145	L526194-04	WG546910
1,2-Dichlorobenzene	mg/kg	1.13	0	.025	89.8	12-130	L526194-04	WG546910
1,2-Dichloroethane	mg/kg	1.27	0	.025	101.	21-155	L526194-04	WG546910
1,2-Dichloropropane	mg/kg	1.14	0	.025	90.7	28-144	L526194-04	WG546910

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
1,3-Dichlorobenzene	mg/kg	1.16	0	.025	91.6	10-129	L526194-04	WG546910
1,4-Dichlorobenzene	mg/kg	1.10	0	.025	87.1	10-121	L526194-04	WG546910
2-Butanone (MEK)	mg/kg	5.80	0	.125	91.8	21-143	L526194-04	WG546910
2-Hexanone	mg/kg	5.18	0	.125	82.0	22-151	L526194-04	WG546910
4-Methyl-2-pentanone (MIBK)	mg/kg	5.84	0	.125	92.4	31-151	L526194-04	WG546910
Acetone	mg/kg	5.70	0	.125	90.3	13-158	L526194-04	WG546910
Benzene	mg/kg	1.19	0	.025	94.4	16-143	L526194-04	WG546910
Bromochloromethane	mg/kg	1.22	0	.025	96.6	25-152	L526194-04	WG546910
Bromodichloromethane	mg/kg	1.25	0	.025	99.2	27-139	L526194-04	WG546910
Bromoform	mg/kg	0.983	0	.025	77.9	21-144	L526194-04	WG546910
Bromomethane	mg/kg	1.27	0	.025	101.	0-180	L526194-04	WG546910
Carbon disulfide	mg/kg	0.795	0	.025	63.0	10-156	L526194-04	WG546910
Carbon tetrachloride	mg/kg	1.21	0	.025	95.7	12-149	L526194-04	WG546910
Chlorobenzene	mg/kg	1.03	0	.025	81.8	17-134	L526194-04	WG546910
Chlorodibromomethane	mg/kg	1.14	0	.025	90.0	28-147	L526194-04	WG546910
Chloroethane	mg/kg	0.268	0	.025	21.2	0-172	L526194-04	WG546910
Chloroform	mg/kg	1.29	0	.025	102.	28-138	L526194-04	WG546910
Chloromethane	mg/kg	1.04	0	.025	82.2	10-158	L526194-04	WG546910
cis-1,2-Dichloroethene	mg/kg	1.13	0	.025	89.7	21-147	L526194-04	WG546910
cis-1,3-Dichloropropene	mg/kg	1.22	0	.025	96.4	17-145	L526194-04	WG546910
Dichlorodifluoromethane	mg/kg	1.15	0	.025	90.8	0-192	L526194-04	WG546910
Ethylbenzene	mg/kg	1.05	0	.025	82.8	12-137	L526194-04	WG546910
Isopropylbenzene	mg/kg	1.07	0	.025	84.8	14-134	L526194-04	WG546910
m&p-Xylene	mg/kg	2.13	0	.05	84.3	10-135	L526194-04	WG546910
Methyl tert-butyl ether	mg/kg	1.15	0	.025	91.2	21-157	L526194-04	WG546910
Methylene Chloride	mg/kg	1.14	0	.025	90.0	12-149	L526194-04	WG546910
n-Hexane	mg/kg	1.03	0	.025	81.2	10-129	L526194-04	WG546910
o-Xylene	mg/kg	1.05	0	.025	83.2	14-140	L526194-04	WG546910
Styrene	mg/kg	1.03	0	.025	81.5	10-140	L526194-04	WG546910
Tetrachloroethene	mg/kg	0.966	0	.025	76.5	10-131	L526194-04	WG546910
Toluene	mg/kg	1.12	0	.025	88.9	12-136	L526194-04	WG546910
trans-1,2-Dichloroethene	mg/kg	0.974	0	.025	77.2	10-143	L526194-04	WG546910
trans-1,3-Dichloropropene	mg/kg	1.16	0	.025	92.2	16-147	L526194-04	WG546910
Trichloroethene	mg/kg	1.04	0	.025	82.8	10-155	L526194-04	WG546910
Trichlorofluoromethane	mg/kg	0.360	0	.025	28.5	10-154	L526194-04	WG546910
Vinyl chloride	mg/kg	1.11	0	.025	87.8	10-159	L526194-04	WG546910
Xylenes, Total	mg/kg	3.18	0	.075	83.9	10-138	L526194-04	WG546910
4-Bromofluorobenzene					93.31	59-140		WG546910
Dibromofluoromethane					114.0	63-139		WG546910
Toluene-d8					110.4	84-116		WG546910
a,a,a-Trifluorotoluene					102.1	80-118		WG546910
1-Methylnaphthalene	mg/kg	0.0323	0	.033	97.9	25-155	L527337-01	WG546951
2-Chloronaphthalene	mg/kg	0.0322	0	.033	97.6	31-153	L527337-01	WG546951
2-Methylnaphthalene	mg/kg	0.0321	0	.033	97.3	22-172	L527337-01	WG546951
Acenaphthene	mg/kg	0.0330	0	.033	100.	43-133	L527337-01	WG546951
Acenaphthylene	mg/kg	0.0333	0	.033	101.	42-146	L527337-01	WG546951
Anthracene	mg/kg	0.0348	0	.033	106.	38-153	L527337-01	WG546951
Benzo(a)anthracene	mg/kg	0.0342	0	.033	104.	31-142	L527337-01	WG546951
Benzo(a)pyrene	mg/kg	0.0311	0	.033	94.2	26-152	L527337-01	WG546951
Benzo(b)fluoranthene	mg/kg	0.0313	0	.033	95.0	10-188	L527337-01	WG546951
Benzo(g,h,i)perylene	mg/kg	0.0358	0	.033	108.	10-176	L527337-01	WG546951
Benzo(k)fluoranthene	mg/kg	0.0312	0	.033	94.6	22-163	L527337-01	WG546951
Chrysene	mg/kg	0.0316	0	.033	95.7	26-146	L527337-01	WG546951
Dibenz(a,h)anthracene	mg/kg	0.0347	0	.033	105.	10-160	L527337-01	WG546951
Fluoranthene	mg/kg	0.0335	0	.033	101.	23-160	L527337-01	WG546951
Fluorene	mg/kg	0.0325	0	.033	98.5	44-143	L527337-01	WG546951
Indeno(1,2,3-cd)pyrene	mg/kg	0.0348	0	.033	106.	10-157	L527337-01	WG546951

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Quality Assurance Report
Level II

L527324

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Est. 1970

July 28, 2011

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Naphthalene	mg/kg	0.0305	0	.033	92.5	22-156	L527337-01	WG546951
Phenanthrene	mg/kg	0.0341	0	.033	103.	23-164	L527337-01	WG546951
Pyrene	mg/kg	0.0341	0	.033	103.	12-170	L527337-01	WG546951
2-Fluorobiphenyl					100.2	34-129		WG546951
Nitrobenzene-d5					95.04	14-141		WG546951
p-Terphenyl-d14					96.98	25-139		WG546951
Ethanol	mg/kg	0.527	0	.5	105.	70-130	L527097-04	WG546892
Methanol	mg/kg	0.466	0	.5	93.2	70-130	L527097-04	WG546892
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	22.8	0	5.5	83.1 104.2	55-109 59-128	L527272-05	WG546911 WG546911
Barium	mg/kg	3310	3200	50	220.*	75-125	L527269-01	WG546924
Cadmium	mg/kg	44.4	0.910	50	87.0	75-125	L527269-01	WG546924
Chromium	mg/kg	68.4	20.0	50	96.8	75-125	L527269-01	WG546924
Copper	mg/kg	76.5	25.0	50	103.	75-125	L527269-01	WG546924
Lead	mg/kg	68.9	23.0	50	91.8	75-125	L527269-01	WG546924
Silver	mg/kg	50.3	0	50	101.	75-125	L527269-01	WG546924
Zinc	mg/kg	105.	57.0	50	96.0	75-125	L527269-01	WG546924
Arsenic	mg/kg	60.5	9.50	10	102.	75-125	L527269-01	WG546924
Nickel	mg/kg	68.7	18.0	10	101.	75-125	L527269-01	WG546924
Selenium	mg/kg	36.2	0	10	72.4*	75-125	L527269-01	WG546924
Mercury	mg/kg	0.339	0.120	.25	87.6	70-130	L527261-01	WG546851
TPH (GC/FID) High Fraction o-Terphenyl	ppm	76.2	0	60	127. 62.64	50-150 50-150	L526978-02	WG547176 WG547176
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	280.	0	5.5	108. 110.4	55-109 59-128	L527591-09	WG547266 WG547266
Chromium,Hexavalent	mg/kg	16.8	0	20	84.0	50-150	L527257-01	WG547008
TPH (GC/FID) High Fraction o-Terphenyl	ppm	139.	100.	60	65.1 78.79	50-150 50-150	L527266-02	WG547075 WG547075

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
1,1,1-Trichloroethane	mg/kg	1.20	1.22	95.0	23-147	2.00	32	L526194-04	WG546910
1,1,2,2-Tetrachloroethane	mg/kg	1.24	1.16	98.2	18-150	6.24	33	L526194-04	WG546910
1,1,2-Trichloroethane	mg/kg	1.19	1.13	94.0	35-140	4.80	29	L526194-04	WG546910
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	1.26	1.37	100.	10-145	8.24	35	L526194-04	WG546910
1,1-Dichloroethane	mg/kg	1.16	1.18	91.7	24-148	1.68	31	L526194-04	WG546910
1,1-Dichloroethene	mg/kg	0.978	1.05	77.4	10-149	7.34	34	L526194-04	WG546910
1,2,3-Trichlorobenzene	mg/kg	1.16	1.14	91.5	10-129	1.65	43	L526194-04	WG546910
1,2,4-Trichlorobenzene	mg/kg	1.11	1.08	87.8	10-119	2.22	44	L526194-04	WG546910
1,2-Dibromo-3-Chloropropane	mg/kg	1.21	1.10	95.9	19-145	9.62	35	L526194-04	WG546910
1,2-Dibromoethane	mg/kg	1.09	1.03	86.0	24-145	4.88	31	L526194-04	WG546910
1,2-Dichlorobenzene	mg/kg	1.15	1.13	91.0	12-130	1.36	35	L526194-04	WG546910

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit Ref	Samp	Batch
			Ref	%Rec					
1,2-Dichloroethane	mg/kg	1.26	1.27	99.5	21-155	1.31	29	L526194-04	WG546910
1,2-Dichloropropane	mg/kg	1.19	1.14	94.5	28-144	4.08	30	L526194-04	WG546910
1,3-Dichlorobenzene	mg/kg	1.20	1.16	94.9	10-129	3.55	38	L526194-04	WG546910
1,4-Dichlorobenzene	mg/kg	1.09	1.10	86.6	10-121	0.580	36	L526194-04	WG546910
2-Butanone (MEK)	mg/kg	6.11	5.80	96.8	21-143	5.23	37	L526194-04	WG546910
2-Hexanone	mg/kg	5.85	5.18	92.6	22-151	12.2	38	L526194-04	WG546910
4-Methyl-2-pentanone (MIBK)	mg/kg	6.34	5.84	100.	31-151	8.23	36	L526194-04	WG546910
Acetone	mg/kg	6.12	5.70	96.9	13-158	7.07	34	L526194-04	WG546910
Benzene	mg/kg	1.16	1.19	91.6	16-143	3.09	31	L526194-04	WG546910
Bromochloromethane	mg/kg	1.22	1.22	96.6	25-152	0.0100	29	L526194-04	WG546910
Bromodichloromethane	mg/kg	1.26	1.25	100.	27-139	0.800	30	L526194-04	WG546910
Bromoform	mg/kg	0.981	0.983	77.7	21-144	0.200	34	L526194-04	WG546910
Bromomethane	mg/kg	1.10	1.27	87.2	0-180	14.4	41	L526194-04	WG546910
Carbon disulfide	mg/kg	0.719	0.795	56.9	10-156	10.0	38	L526194-04	WG546910
Carbon tetrachloride	mg/kg	1.16	1.21	91.9	12-149	4.01	34	L526194-04	WG546910
Chlorobenzene	mg/kg	1.08	1.03	85.8	17-134	4.79	34	L526194-04	WG546910
Chlorodibromomethane	mg/kg	1.18	1.14	93.3	28-147	3.61	32	L526194-04	WG546910
Chloroethane	mg/kg	0.198	0.268	15.7	0-172	30.0	38	L526194-04	WG546910
Chloroform	mg/kg	1.25	1.29	99.4	28-138	2.69	30	L526194-04	WG546910
Chloromethane	mg/kg	1.10	1.04	86.7	10-158	5.41	35	L526194-04	WG546910
cis-1,2-Dichloroethene	mg/kg	1.11	1.13	88.0	21-147	1.91	31	L526194-04	WG546910
cis-1,3-Dichloropropene	mg/kg	1.22	1.22	96.6	17-145	0.240	32	L526194-04	WG546910
Dichlorodifluoromethane	mg/kg	0.541	1.15	42.8	0-192	71.8*	38	L526194-04	WG546910
Ethylbenzene	mg/kg	1.10	1.05	86.9	12-137	4.80	36	L526194-04	WG546910
Isopropylbenzene	mg/kg	1.12	1.07	88.8	14-134	4.60	37	L526194-04	WG546910
m&p-Xylene	mg/kg	2.17	2.13	85.8	10-135	1.81	37	L526194-04	WG546910
Methyl tert-butyl ether	mg/kg	1.20	1.15	95.4	21-157	4.51	31	L526194-04	WG546910
Methylene Chloride	mg/kg	1.13	1.14	89.3	12-149	0.840	31	L526194-04	WG546910
n-Hexane	mg/kg	0.994	1.03	78.7	10-129	3.09	42	L526194-04	WG546910
o-Xylene	mg/kg	1.09	1.05	86.5	14-140	3.87	35	L526194-04	WG546910
Styrene	mg/kg	1.03	1.03	81.4	10-140	0.0700	35	L526194-04	WG546910
Tetrachloroethene	mg/kg	0.992	0.966	78.5	10-131	2.65	35	L526194-04	WG546910
Toluene	mg/kg	1.12	1.12	89.0	12-136	0.150	32	L526194-04	WG546910
trans-1,2-Dichloroethene	mg/kg	0.975	0.974	77.3	10-143	0.120	33	L526194-04	WG546910
trans-1,3-Dichloropropene	mg/kg	1.15	1.16	90.9	16-147	1.40	32	L526194-04	WG546910
Trichloroethene	mg/kg	1.06	1.04	84.0	10-155	1.42	33	L526194-04	WG546910
Trichlorofluoromethane	mg/kg	0.211	0.360	16.7	10-154	52.1*	32	L526194-04	WG546910
Vinyl chloride	mg/kg	1.15	1.11	90.8	10-159	3.35	36	L526194-04	WG546910
Xylenes, Total	mg/kg	3.26	3.18	86.0	10-138	2.50	36	L526194-04	WG546910
4-Bromofluorobenzene				96.36	59-140				WG546910
Dibromofluoromethane				109.4	63-139				WG546910
Toluene-d8				110.3	84-116				WG546910
a,a,a-Trifluorotoluene				101.8	80-118				WG546910
1-Methylnaphthalene	mg/kg	0.0288	0.0323	87.3	25-155	11.4	27	L527337-01	WG546951
2-Chloronaphthalene	mg/kg	0.0289	0.0322	87.5	31-153	10.9	22	L527337-01	WG546951
2-Methylnaphthalene	mg/kg	0.0285	0.0321	86.4	22-172	11.8	29	L527337-01	WG546951
Acenaphthene	mg/kg	0.0315	0.0330	95.4	43-133	4.69	26	L527337-01	WG546951
Acenaphthylene	mg/kg	0.0316	0.0333	95.8	42-146	5.03	22	L527337-01	WG546951
Anthracene	mg/kg	0.0352	0.0348	107.	38-153	0.962	27	L527337-01	WG546951
Benzo(a)anthracene	mg/kg	0.0361	0.0342	109.	31-142	5.41	31	L527337-01	WG546951
Benzo(a)pyrene	mg/kg	0.0317	0.0311	96.1	26-152	2.08	32	L527337-01	WG546951
Benzo(b)fluoranthene	mg/kg	0.0314	0.0313	95.3	10-188	0.309	33	L527337-01	WG546951
Benzo(g,h,i)perylene	mg/kg	0.0373	0.0358	113.	10-176	4.12	30	L527337-01	WG546951
Benzo(k)fluoranthene	mg/kg	0.0322	0.0312	97.6	22-163	3.08	29	L527337-01	WG546951
Chrysene	mg/kg	0.0331	0.0316	100.	26-146	4.84	30	L527337-01	WG546951
Dibenz(a,h)anthracene	mg/kg	0.0364	0.0347	110.	10-160	4.64	39	L527337-01	WG546951
Fluoranthene	mg/kg	0.0346	0.0335	105.	23-160	3.25	22	L527337-01	WG546951

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			Ref	%Rec					
Fluorene	mg/kg	0.0318	0.0325	96.4	44-143	2.19	23	L527337-01	WG546951
Indeno(1,2,3-cd)pyrene	mg/kg	0.0362	0.0348	110.	10-157	3.75	40	L527337-01	WG546951
Naphthalene	mg/kg	0.0271	0.0305	82.1	22-156	12.0	27	L527337-01	WG546951
Phenanthrene	mg/kg	0.0349	0.0341	106.	23-164	2.47	25	L527337-01	WG546951
Pyrene	mg/kg	0.0361	0.0341	110.	12-170	5.85	24	L527337-01	WG546951
2-Fluorobiphenyl				93.83	34-129				WG546951
Nitrobenzene-d5				85.53	14-141				WG546951
p-Terphenyl-d14				102.0	25-139				WG546951
Ethanol	mg/kg	0.548	0.527	110.	70-130	3.84	20	L527097-04	WG546892
Methanol	mg/kg	0.488	0.466	97.5	70-130	4.58	20	L527097-04	WG546892
TPH (GC/FID) Low Fraction	mg/kg	21.7	22.8	78.8	55-109	5.26	20	L527272-05	WG546911
a,a,a-Trifluorotoluene(FID)				103.2	59-128				WG546911
Barium	mg/kg	2990	3310	0*	75-125	10.2	20	L527269-01	WG546924
Cadmium	mg/kg	43.3	44.4	84.8	75-125	2.51	20	L527269-01	WG546924
Chromium	mg/kg	65.6	68.4	91.2	75-125	4.18	20	L527269-01	WG546924
Copper	mg/kg	78.2	76.5	106.	75-125	2.20	20	L527269-01	WG546924
Lead	mg/kg	65.7	68.9	85.4	75-125	4.75	20	L527269-01	WG546924
Silver	mg/kg	49.4	50.3	98.8	75-125	1.81	20	L527269-01	WG546924
Zinc	mg/kg	101.	105.	88.0	75-125	3.88	20	L527269-01	WG546924
Arsenic	mg/kg	70.4	60.5	122.	75-125	15.1	20	L527269-01	WG546924
Nickel	mg/kg	73.8	68.7	112.	75-125	7.16	20	L527269-01	WG546924
Selenium	mg/kg	36.8	36.2	73.6*	75-125	1.64	20	L527269-01	WG546924
Mercury	mg/kg	0.288	0.339	67.2*	70-130	16.3	20	L527261-01	WG546851
TPH (GC/FID) High Fraction	ppm	45.1	76.2	75.1	50-150	51.3*	20	L526978-02	WG547176
o-Terphenyl				52.18	50-150				WG547176
TPH (GC/FID) Low Fraction	mg/kg	280.	280.	108.	55-109	0.0100	20	L527591-09	WG547266
a,a,a-Trifluorotoluene(FID)				110.2	59-128				WG547266
Chromium,Hexavalent	mg/kg	15.2	16.8	76.0	50-150	10.0	20	L527257-01	WG547008
TPH (GC/FID) High Fraction	ppm	137.	139.	62.4	50-150	1.20	25	L527266-02	WG547075
o-Terphenyl				78.82	50-150				WG547075

Batch number /Run number / Sample number cross reference

WG546910: R1777950: L527324-01
 WG546951: R1778970: L527324-01
 WG546892: R1779370: L527324-01
 WG546911: R1779590: L527324-02 03 04 05 06
 WG546997: R1780210: L527324-01
 WG546924: R1780510: L527324-01
 WG546851: R1781912: L527324-01
 WG547176: R1782192: L527324-02 03 04 05 06
 WG547266: R1782490: L527324-01

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WG547164: R1782771: L527324-01
WG547165: R1782790: L527324-01
WG547008: R1783490: L527324-01
WG547219: R1784230: L527324-01
WG547075: R1787510: L527324-01

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



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Report Summary

Friday June 24, 2011

Report Number: L522259


Samples Received: 06/22/11

Client Project:

Description: NO7

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

Entire Report Reviewed By:


Jared Willis, ESC Representative

Laboratory Certification Numbers

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

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

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

June 24, 2011

Chris Hines
 EnCana Oil & Gas Inc. - CO
 2717 County Road 215, Suite 100
 Parachute, CO 81635

Date Received : June 22, 2011
 Description : NO7
 Sample ID : NO7-CUT-062011
 Collected By : Brennen Graff
 Collection Date : 06/20/11 09:30

ESC Sample # : L522259-01
 Site ID :
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/24/11	1
Chromium,Trivalent	20.	0.50	mg/kg	Calc.	06/23/11	1
pH	12.		su	9045D	06/24/11	1
Sodium Adsorption Ratio	32.			Calc.	06/23/11	1
Specific Conductance	5900		umhos/cm	9050AMod	06/24/11	1
Mercury	0.023	0.020	mg/kg	7471	06/23/11	1
Arsenic	10.	5.0	mg/kg	6010B	06/23/11	5
Barium	310	0.25	mg/kg	6010B	06/23/11	1
Cadmium	1.3	0.25	mg/kg	6010B	06/23/11	1
Chromium	20.	0.50	mg/kg	6010B	06/23/11	1
Copper	20.	1.0	mg/kg	6010B	06/23/11	1
Lead	12.	0.25	mg/kg	6010B	06/23/11	1
Nickel	17.	5.0	mg/kg	6010B	06/23/11	5
Selenium	11.	1.0	mg/kg	6010B	06/23/11	1
Silver	BDL	0.50	mg/kg	6010B	06/23/11	1
Zinc	39.	1.5	mg/kg	6010B	06/23/11	1
Benzene	BDL	0.0025	mg/kg	8021/8015	06/23/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/23/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/23/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/23/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/23/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	98.4		% Rec.	8021/8015	06/23/11	5
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/8015	06/23/11	5
TPH (GC/FID) High Fraction	160	4.0	mg/kg	3546/DRO	06/23/11	1
Surrogate recovery(%)						
o-Terphenyl	53.8		% Rec.	3546/DRO	06/23/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.060	mg/kg	8270C-SIM	06/24/11	10
Acenaphthene	BDL	0.060	mg/kg	8270C-SIM	06/24/11	10
Acenaphthylene	BDL	0.060	mg/kg	8270C-SIM	06/24/11	10
Benzo(a)anthracene	BDL	0.060	mg/kg	8270C-SIM	06/24/11	10
Benzo(a)pyrene	BDL	0.060	mg/kg	8270C-SIM	06/24/11	10
Benzo(b)fluoranthene	BDL	0.060	mg/kg	8270C-SIM	06/24/11	10
Benzo(g,h,i)perylene	BDL	0.060	mg/kg	8270C-SIM	06/24/11	10

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L522259-01 (PH) - 12@19.3c
 L522259-01 (SV8270PAHSIM) - Dilution due to matrix



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June 24, 2011

Date Received : June 22, 2011
 Description : NO7
 Sample ID : NO7-CUT-062011
 Collected By : Brennen Graff
 Collection Date : 06/20/11 09:30

ESC Sample # : L522259-01
 Site ID :
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(k)fluoranthene	BDL	0.060	mg/kg	8270C-SIM	06/24/11	10
Chrysene	BDL	0.060	mg/kg	8270C-SIM	06/24/11	10
Dibenz(a,h)anthracene	BDL	0.060	mg/kg	8270C-SIM	06/24/11	10
Fluoranthene	BDL	0.060	mg/kg	8270C-SIM	06/24/11	10
Fluorene	BDL	0.060	mg/kg	8270C-SIM	06/24/11	10
Indeno(1,2,3-cd)pyrene	BDL	0.060	mg/kg	8270C-SIM	06/24/11	10
Naphthalene	0.17	0.060	mg/kg	8270C-SIM	06/24/11	10
Phenanthrene	0.10	0.060	mg/kg	8270C-SIM	06/24/11	10
Pyrene	BDL	0.060	mg/kg	8270C-SIM	06/24/11	10
1-Methylnaphthalene	0.19	0.060	mg/kg	8270C-SIM	06/24/11	10
2-Methylnaphthalene	0.38	0.060	mg/kg	8270C-SIM	06/24/11	10
2-Chloronaphthalene	BDL	0.060	mg/kg	8270C-SIM	06/24/11	10
Surrogate Recovery						
Nitrobenzene-d5	93.5		% Rec.	8270C-SIM	06/24/11	10
2-Fluorobiphenyl	107.		% Rec.	8270C-SIM	06/24/11	10
p-Terphenyl-d14	60.1		% Rec.	8270C-SIM	06/24/11	10

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: 06/24/11 17:43 Printed: 06/24/11 17:43

L522259-01 (PH) - 12@19.3c

L522259-01 (SV8270PAHSIM) - Dilution due to matrix

Summary of Remarks For Samples Printed
06/24/11 at 17:43:36

TSR Signing Reports: 358
R3 - Rush: Two Day

Sample: L522259-01 Account: ENCANACO Received: 06/22/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/24/11 17:43



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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG541973	06/22/11 15:23
Ethylbenzene	< .0005	mg/kg			WG541973	06/22/11 15:23
Toluene	< .005	mg/kg			WG541973	06/22/11 15:23
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG541973	06/22/11 15:23
Total Xylene	< .0015	mg/kg			WG541973	06/22/11 15:23
a,a,a-Trifluorotoluene(FID)		% Rec.	98.88	59-128	WG541973	06/22/11 15:23
a,a,a-Trifluorotoluene(PID)		% Rec.	103.5	54-144	WG541973	06/22/11 15:23
Mercury	< .02	mg/kg			WG541800	06/23/11 12:52
1-Methylnaphthalene	< .006	mg/kg			WG542040	06/23/11 14:17
2-Chloronaphthalene	< .006	mg/kg			WG542040	06/23/11 14:17
2-Methylnaphthalene	< .006	mg/kg			WG542040	06/23/11 14:17
Acenaphthene	< .006	mg/kg			WG542040	06/23/11 14:17
Acenaphthylene	< .006	mg/kg			WG542040	06/23/11 14:17
Anthracene	< .006	mg/kg			WG542040	06/23/11 14:17
Benzo(a)anthracene	< .006	mg/kg			WG542040	06/23/11 14:17
Benzo(a)pyrene	< .006	mg/kg			WG542040	06/23/11 14:17
Benzo(b)fluoranthene	< .006	mg/kg			WG542040	06/23/11 14:17
Benzo(g,h,i)perylene	< .006	mg/kg			WG542040	06/23/11 14:17
Benzo(k)fluoranthene	< .006	mg/kg			WG542040	06/23/11 14:17
Chrysene	< .006	mg/kg			WG542040	06/23/11 14:17
Dibenz(a,h)anthracene	< .006	mg/kg			WG542040	06/23/11 14:17
Fluoranthene	< .006	mg/kg			WG542040	06/23/11 14:17
Fluorene	< .006	mg/kg			WG542040	06/23/11 14:17
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG542040	06/23/11 14:17
Naphthalene	< .006	mg/kg			WG542040	06/23/11 14:17
Phenanthrene	< .006	mg/kg			WG542040	06/23/11 14:17
Pyrene	< .006	mg/kg			WG542040	06/23/11 14:17
2-Fluorobiphenyl		% Rec.	76.79	21-120	WG542040	06/23/11 14:17
Nitrobenzene-d5		% Rec.	74.48	33-114	WG542040	06/23/11 14:17
p-Terphenyl-d14		% Rec.	77.23	18-142	WG542040	06/23/11 14:17
TPH (GC/FID) High Fraction	< 4	ppm			WG542123	06/23/11 16:42
o-Terphenyl		% Rec.	68.40	50-150	WG542123	06/23/11 16:42
Arsenic	< 1	mg/kg			WG542002	06/23/11 19:09
Barium	< .25	mg/kg			WG542002	06/23/11 19:09
Cadmium	< .25	mg/kg			WG542002	06/23/11 19:09
Chromium	< .5	mg/kg			WG542002	06/23/11 19:09
Copper	< 1	mg/kg			WG542002	06/23/11 19:09
Nickel	< 1	mg/kg			WG542002	06/23/11 19:09
Selenium	< 1	mg/kg			WG542002	06/23/11 19:09
Silver	< .5	mg/kg			WG542002	06/23/11 19:09
Zinc	< 1.5	mg/kg			WG542002	06/23/11 19:09
Lead	< .25	mg/kg			WG542002	06/23/11 22:27
pH	4.40	su			WG542275	06/24/11 12:33
Chromium,Hexavalent	< 2	mg/kg			WG542082	06/24/11 13:54
Specific Conductance	0.590	umhos/cm			WG542098	06/24/11 15:25

* 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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Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Mercury	mg/kg	0.0460	0.0510	9.23	20	L522139-02	WG541800
Arsenic	mg/kg	7.40	5.70	26.1*	20	L522346-03	WG542002
Barium	mg/kg	210.	160.	28.9*	20	L522346-03	WG542002
Cadmium	mg/kg	0.330	0.240	30.4*	20	L522346-03	WG542002
Chromium	mg/kg	23.0	22.0	3.13	20	L522346-03	WG542002
Copper	mg/kg	12.0	10.1	13.8	20	L522346-03	WG542002
Lead	mg/kg	14.0	10.0	36.7*	20	L522346-03	WG542002
Nickel	mg/kg	14.0	12.9	8.18	20	L522346-03	WG542002
Selenium	mg/kg	29.0	27.0	6.80	20	L522346-03	WG542002
Silver	mg/kg	0	0	0	20	L522346-03	WG542002
Zinc	mg/kg	29.0	28.3	3.81	20	L522346-03	WG542002
pH	su	4.50	4.50	0	1	L521668-04	WG542275
Chromium,Hexavalent	mg/kg	0	0	0	20	L522301-07	WG542082
Chromium,Hexavalent	mg/kg	0	0	0	20	L522069-05	WG542082
Specific Conductance	umhos/cm	3200	3200	0.627	20	L521624-45	WG542098

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0474	94.8	76-113	WG541973
Ethylbenzene	mg/kg	.05	0.0481	96.1	78-115	WG541973
Toluene	mg/kg	.05	0.0510	102.	76-114	WG541973
Total Xylene	mg/kg	.15	0.140	93.5	81-118	WG541973
a,a,a-Trifluorotoluene(PID)				103.4	54-144	WG541973
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.82	106.	67-135	WG541973
a,a,a-Trifluorotoluene(FID)				104.3	59-128	WG541973
Mercury	mg/kg	8.77	7.80	88.9	71.6-127.7	WG541800
1-Methylnaphthalene	mg/kg	.033	0.0283	85.9	41-110	WG542040
2-Chloronaphthalene	mg/kg	.033	0.0266	80.6	43-109	WG542040
2-Methylnaphthalene	mg/kg	.033	0.0246	74.6	38-104	WG542040
Acenaphthene	mg/kg	.033	0.0257	78.0	48-103	WG542040
Acenaphthylene	mg/kg	.033	0.0272	82.4	43-106	WG542040
Anthracene	mg/kg	.033	0.0290	88.0	51-110	WG542040
Benzo(a)anthracene	mg/kg	.033	0.0260	78.8	38-126	WG542040
Benzo(a)pyrene	mg/kg	.033	0.0282	85.3	47-118	WG542040
Benzo(b)fluoranthene	mg/kg	.033	0.0274	83.0	47-118	WG542040
Benzo(g,h,i)perylene	mg/kg	.033	0.0294	89.1	40-125	WG542040
Benzo(k)fluoranthene	mg/kg	.033	0.0288	87.2	45-121	WG542040
Chrysene	mg/kg	.033	0.0290	87.8	35-135	WG542040
Dibenz(a,h)anthracene	mg/kg	.033	0.0285	86.4	41-124	WG542040
Fluoranthene	mg/kg	.033	0.0290	88.0	50-114	WG542040
Fluorene	mg/kg	.033	0.0272	82.4	49-109	WG542040
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0293	88.9	40-126	WG542040
Naphthalene	mg/kg	.033	0.0264	80.1	36-100	WG542040
Phenanthrene	mg/kg	.033	0.0304	92.2	46-108	WG542040
Pyrene	mg/kg	.033	0.0293	88.8	30-136	WG542040
2-Fluorobiphenyl				74.69	33-114	WG542040

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Nitrobenzene-d5				71.00	21-120	
p-Terphenyl-d14				77.78	18-142	
TPH (GC/FID) High Fraction	ppm	60	42.2	70.4	50-150	WG542123
o-Terphenyl				61.27	50-150	WG542123
Arsenic	mg/kg	192	182.	94.8	78.6-120.8	WG542002
Barium	mg/kg	420	420.	100.	78.8-121.4	WG542002
Cadmium	mg/kg	70.1	64.6	92.2	78.5-121.5	WG542002
Chromium	mg/kg	168	172.	102.	80.4-120.2	WG542002
Copper	mg/kg	122	130.	107.	81.6-119.7	WG542002
Lead	mg/kg	113	112.	99.1	77.3-122.1	WG542002
Nickel	mg/kg	74.1	79.4	107.	78.8-121.2	WG542002
Selenium	mg/kg	176	195.	111.	75.6-125.0	WG542002
Silver	mg/kg	115	119.	103.	66-133.9	WG542002
Zinc	mg/kg	437	417.	95.4	78.5-121.7	WG542002
pH	su	6.3	6.30	100.	97.98-102.02	WG542275
Chromium,Hexavalent	mg/kg	132	98.8	74.8	50-150	WG542082
Specific Conductance	umhos/cm	445	440.	98.9	85-115	WG542098

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0470	0.0474	94.0	76-113	0.860	20	WG541973
Ethylbenzene	mg/kg	0.0476	0.0481	95.0	78-115	0.910	20	WG541973
Toluene	mg/kg	0.0500	0.0510	100.	76-114	2.04	20	WG541973
Total Xylene	mg/kg	0.140	0.140	93.0	81-118	0.490	20	WG541973
a,a,a-Trifluorotoluene(PID)				102.3	54-144			WG541973
TPH (GC/FID) Low Fraction	mg/kg	5.90	5.82	107.	67-135	1.28	20	WG541973
a,a,a-Trifluorotoluene(FID)				104.1	59-128			WG541973
1-Methylnaphthalene	mg/kg	0.0257	0.0283	78.0	41-110	9.82	24	WG542040
2-Chloronaphthalene	mg/kg	0.0252	0.0266	76.0	43-109	5.29	21	WG542040
2-Methylnaphthalene	mg/kg	0.0237	0.0246	72.0	38-104	3.90	24	WG542040
Acenaphthene	mg/kg	0.0269	0.0257	81.0	48-103	4.43	20	WG542040
Acenaphthylene	mg/kg	0.0267	0.0272	81.0	43-106	1.91	20	WG542040
Anthracene	mg/kg	0.0277	0.0290	84.0	51-110	4.57	22	WG542040
Benzo(a)anthracene	mg/kg	0.0258	0.0260	78.0	38-126	0.880	20	WG542040
Benzo(a)pyrene	mg/kg	0.0278	0.0282	84.0	47-118	1.16	20	WG542040
Benzo(b)fluoranthene	mg/kg	0.0289	0.0274	88.0	47-118	5.44	29	WG542040
Benzo(g,h,i)perylene	mg/kg	0.0282	0.0294	86.0	40-125	4.07	20	WG542040
Benzo(k)fluoranthene	mg/kg	0.0276	0.0288	84.0	45-121	4.13	31	WG542040
Chrysene	mg/kg	0.0293	0.0290	89.0	35-135	1.21	20	WG542040
Dibenz(a,h)anthracene	mg/kg	0.0279	0.0285	84.0	41-124	2.12	20	WG542040
Fluoranthene	mg/kg	0.0281	0.0290	85.0	50-114	3.47	20	WG542040
Fluorene	mg/kg	0.0282	0.0272	86.0	49-109	3.75	19	WG542040
Indeno(1,2,3-cd)pyrene	mg/kg	0.0278	0.0293	84.0	40-126	5.37	20	WG542040
Naphthalene	mg/kg	0.0247	0.0264	75.0	36-100	6.91	24	WG542040
Phenanthrene	mg/kg	0.0275	0.0304	83.0	46-108	10.2	21	WG542040
Pyrene	mg/kg	0.0286	0.0293	87.0	30-136	2.34	20	WG542040
2-Fluorobiphenyl				70.86	33-114			WG542040
Nitrobenzene-d5				65.05	21-120			WG542040

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Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec	%Rec				
p-Terphenyl-d14				73.16		18-142			
TPH (GC/FID) High Fraction	ppm	44.5	42.2	74.0		50-150	5.25	25	WG542123
o-Terphenyl				60.91		50-150			WG542123
pH	su	6.30	6.30	100.		97.98-102.02	0	20	WG542275
Chromium,Hexavalent	mg/kg	99.6	98.8	75.0		50-150	0.806	20	WG542082
Specific Conductance	umhos/	440.	440.	99.0		85-115	0	20	WG542098

Analyte	Units	MS Res	Matrix Spike		TV	% Rec	Limit	Ref Samp	Batch
			Ref Res	TV					
Benzene	mg/kg	0.218	0	.05	87.3	32-137	L522260-01	WG541973	
Ethylbenzene	mg/kg	0.222	0	.05	88.6	10-150	L522260-01	WG541973	
Toluene	mg/kg	0.235	0	.05	94.0	20-142	L522260-01	WG541973	
Total Xylene	mg/kg	0.653	0	.15	87.1	16-141	L522260-01	WG541973	
a,a,a-Trifluorotoluene(PID)					102.1	54-144		WG541973	
TPH (GC/FID) Low Fraction	mg/kg	26.7	0	5.5	97.2	55-109	L522260-01	WG541973	
a,a,a-Trifluorotoluene(FID)					104.0	59-128		WG541973	
Mercury	mg/kg	0.249	0.0510	.25	79.2	70-130	L522139-02	WG541800	
TPH (GC/FID) High Fraction	ppm	44.9	0	60	74.8	50-150	L521837-02	WG542123	
o-Terphenyl					61.68	50-150		WG542123	
Arsenic	mg/kg	52.8	5.70	50	94.2	75-125	L522346-03	WG542002	
Barium	mg/kg	277.	160.	50	234.*	75-125	L522346-03	WG542002	
Cadmium	mg/kg	44.7	0.240	50	88.9	75-125	L522346-03	WG542002	
Chromium	mg/kg	72.4	22.0	50	101.	75-125	L522346-03	WG542002	
Copper	mg/kg	63.3	10.1	50	106.	75-125	L522346-03	WG542002	
Lead	mg/kg	62.6	10.0	50	105.	75-125	L522346-03	WG542002	
Nickel	mg/kg	63.0	12.9	50	100.	75-125	L522346-03	WG542002	
Selenium	mg/kg	73.4	27.0	50	92.8	75-125	L522346-03	WG542002	
Silver	mg/kg	48.7	0	50	97.4	75-125	L522346-03	WG542002	
Zinc	mg/kg	74.5	28.3	50	92.4	75-125	L522346-03	WG542002	
Chromium,Hexavalent	mg/kg	13.8	2.60	20	56.0	50-150	L522069-07	WG542082	

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.223	0.218	89.1	32-137	2.07	39	L522260-01	WG541973
Ethylbenzene	mg/kg	0.223	0.222	89.2	10-150	0.630	44	L522260-01	WG541973
Toluene	mg/kg	0.236	0.235	94.3	20-142	0.370	42	L522260-01	WG541973
Total Xylene	mg/kg	0.656	0.653	87.4	16-141	0.370	46	L522260-01	WG541973
a,a,a-Trifluorotoluene(PID)					102.3	54-144			WG541973
TPH (GC/FID) Low Fraction	mg/kg	26.5	26.7	96.3	55-109	0.980	20	L522260-01	WG541973
a,a,a-Trifluorotoluene(FID)					103.5	59-128			WG541973
Mercury	mg/kg	0.268	0.249	86.8	70-130	7.35	20	L522139-02	WG541800

* 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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Est. 1970

EnCana Oil & Gas Inc. - CO
 Chris Hines
 2717 County Road 215, Suite 100
 Parachute, CO 81635

Quality Assurance Report
 Level II

L522259

June 24, 2011

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
TPH (GC/FID) High Fraction	ppm	47.6	44.9	79.3	50-150	5.83	25	L521837-02	WG542123
o-Terphenyl				63.12	50-150				WG542123
Arsenic	mg/kg	47.7	52.8	84.0	75-125	10.1	20	L522346-03	WG542002
Barium	mg/kg	227.	277.	134.*	75-125	19.8	20	L522346-03	WG542002
Cadmium	mg/kg	42.2	44.7	83.9	75-125	5.75	20	L522346-03	WG542002
Chromium	mg/kg	67.1	72.4	90.2	75-125	7.60	20	L522346-03	WG542002
Copper	mg/kg	59.3	63.3	98.4	75-125	6.53	20	L522346-03	WG542002
Lead	mg/kg	54.5	62.6	89.0	75-125	13.8	20	L522346-03	WG542002
Nickel	mg/kg	58.4	63.0	91.0	75-125	7.58	20	L522346-03	WG542002
Selenium	mg/kg	68.1	73.4	82.2	75-125	7.49	20	L522346-03	WG542002
Silver	mg/kg	46.0	48.7	92.0	75-125	5.70	20	L522346-03	WG542002
Zinc	mg/kg	71.2	74.5	85.8	75-125	4.53	20	L522346-03	WG542002
Chromium,Hexavalent	mg/kg	12.2	13.8	48.0*	50-150	12.3	20	L522069-07	WG542082

Batch number /Run number / Sample number cross reference

WG541973: R1734109: L522259-01
 WG541800: R1735549: L522259-01
 WG542040: R1735651: L522259-01
 WG542123: R1736649: L522259-01
 WG542002: R1736690: L522259-01
 WG542275: R1737412: L522259-01
 WG542109: R1737930: L522259-01
 WG542082: R1738150: L522259-01
 WG542098: R1738230: L522259-01

* * 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.'



YOUR LAB OF CHOICE

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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.