



G09 596 (Location: 335699)
West Pit (Facility: 425566)
East Pit (Facility: 425567)
Encana Oil & Gas (USA) Inc. (Operator: 100185)

REPORT OF WORK COMPLETED

- West Pit (Facility: 425566) - Form 27 (Doc: 2232924) (Rem: 7761)
- East Pit (Facility: 425567) - Form 27 (Doc: 2232925) (Rem: 7762)

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, cuttings disposal, and material transfer on a well pad in the North Parachute area of operation in Garfield County.

Initial pit closure and characterization efforts were carried out in July, 2010. The pit was drained, and the liner and above liner solids were removed for offsite disposal. Below-liner soil conditions were assessed with field observations and each cell of the pit was characterized with a 5-point composite sample of the pit bottom submitted to a laboratory for analysis. Sample results identified concentrations/levels above the allowable limits in COGCC Table 910-1 for TPH, benzene, EC, SAR, pH, and arsenic.

Following identification of below-liner impacts, the pit excavations were left open through the remainder of 2010 and early 2011 to allow hydrocarbon impacts to naturally attenuate through biological processes.

On June 7, 2011 a composite sample of an onsite drill cuttings stockpile was collected for laboratory analysis and comparison with COGCC Table 910-1 constituent limits.

Beginning in June, 2011 both pit cells were further characterized with a series of discrete grab samples. Those samples and field observations confirmed persistent hydrocarbon impacts in below-liner soils. A track-hoe was used to remove visually stained soils from both pits, and stockpile material on the pad to support remediation. Competent bedrock was encountered during the second excavation effort which prevented vertical and lateral pursuit of soil impacts. A final round of grab samples was collected for characterization of the excavations.

The two stockpiles of material excavated from the pit bottoms was characterized with composite samples. The stockpile from the east pit cleared in August, 2011 and was returned to the excavation. The western stockpile was laid out in a thin lift on the pad surface and water and fertilizer were applied to augment natural bioremediation. On September 14, 2011 the remediation lift from the west pit was characterized with discrete grab samples, and turned and watered. On October 19, 2011 the lift was sampled again with grab samples. To support the scheduled interim reclamation on the location, the portion of the stockpile that cleared Table 910-1 for TPH was pushed into the excavation.

Approximately 400 cubic yards of impacted pit spoil was transported to the K04 596 well pad (Location ID: 335690) for remediation and final burial with a pit closure project at that location. Both locations and connecting roads occur on Encana owned surface. Final clearance and burial information for transported material will be provided with remediation project 7768.

Analytical results are provided in the attached summary table and laboratory reports.

NOTIFICATION OF COMPLETION

After excavation efforts were completed, four (4) clearance samples from the pit bottoms were analyzed for TPH, and three (3) of the samples returned results below allowable limits in Table 910-1. All four (4) final pit bottom results remained above the allowable limit. Encana requests that the COGCC consider the following physical and temporal conditions associated with this pit closure project as an alternative to the allowable limit for TPH identified in Table 910-1:

- The samples in question were collected from the unrecoverable residual material on top of the bedrock. They are not representative of the bedrock or the geology beneath the bedrock, and only demonstrate that the removed material had hydrocarbon impacts.
- Encana has maintained an extensive water quality monitoring program in the North Parachute Properties for nearly a decade, which includes quarterly sampling at area springs and streams. The nearest established down gradient sampling point is in a stream (ENPR22ST), with nearly 4 years of sampling data since the closure of this pit without any water quality problems identified. See attached topographic map for spring location.

Arsenic concentrations in the pit bottom and stockpile, and drill cuttings stockpile 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. With regards to the inorganic constituents (SAR, EC, pH), the material represented by these samples are within the former pit footprint, are greater than five feet below the current working surface, and will be at an even greater depth below the final reclaimed working surface where the constituents will have no effect on revegetation efforts.

After bedrock refusal, the drill cuttings stockpile (approximately 1000 cubic yards), east pit spoil, and cleared spoil from the remediation lift from the west pit were placed in the pit excavations, 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

North Parachute Mountain

Garfield County, Colorado

0 3,200 6,400 Feet

1 inch = 3,000 feet

T004S-R097W

T005S-R097W

G09 Well Pad and Pits
Location ID: 335699
Facility IDs: 425566 & 425567
Rem #: 7761 & 7762

T004S-R096W

ENPR22ST
stream sampling point

T005S-R096W

ENPR1ST
stream sampling point

T004S-R095W

T005S-R095W

Encana Site Boundary
 Access Road
 Township Boundary

Surface Ownership

- Not Identified Below (clear)
- EnCana (transparent)
- USFS (transparent)
- BLM (transparent)

Analytes (BDL = Below Detection Limit; ND = Non Detect)

Location	Sample Date:	Sample Matrix	Matrix Notes	Allowable Concentration →	Organic Compounds in Soil (mg/kg (ppm))																			Inorganics in Soil			Metals in Soil (mg/kg (ppm))													
					TPH (total volatile and extractable petroleum hydrocarbons)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C36) High Fraction	0.17	85	100	175	1000	1000	0.22	0.22	2.2	0.022	22	0.022	1000	1000	0.22	23	1000	EC (<4 mmhos/cm or 2x background)	SAR (calculation)	pH	Arsenic	Barium - EPA Total Barium	Cadmium	Chromium (III)	Chromium (VI)	Copper	Lead (inorganic)	Mercury	Nickel (soluble salts)	Selenium	Silver	Zinc	
G09	07/29/10	Pit	E pit bottom		710	290	420	1.3	1.7	1.4	10	0.033	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.11	BDL	0.5	BDL	1.2	36	8.2	9.8	1200	0.51	29	BDL	24	16	0.038	22	2	BDL	59	
G09	07/29/10	Pit	W pit bottom		340	200	140	0.36	3	0.95	12	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.24	BDL	2.2	36	11	5.7	4300	0.52	20	BDL	21	23	0.02	16	1.6	BDL	44			
G09	06/07/11	Cuttings			120	BDL	120	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.19	BDL	4.6	15	12	6	3400	0.42	16	BDL	21	16	0.026	11	BDL	BDL	49		
G09	06/07/11	Pit	E pit - grab #1		111.6	1.6	110	BDL	BDL	BDL	BDL													0.47	12	8.8	7.6													
G09	06/07/11	Pit	E pit - grab #2		3000	BDL	3000	BDL	BDL	BDL	BDL													0.63	7.3	7.9	8													
G09	06/07/11	Pit	E pit - grab #3		110.68	0.68	110	BDL	BDL	BDL	BDL													0.54	13	8.6	12													
G09	06/07/11	Pit	E pit - grab #4		1405.2	5.2	1400	BDL	BDL	BDL	BDL													0.83	5.7	8.6	12													
G09	06/07/11	Pit	E pit - grab #5		31	BDL	31	0.0064	BDL	BDL	BDL													1.2	25	8.8	9.3													
G09	06/07/11	Pit	W pit - grab #1		2620	20	2600	BDL	BDL	BDL	0.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.55	31	9.1	9.1	750	1.2	33	BDL	30	18	0.037	28	9.6	BDL	75		
G09	06/07/11	Pit	W pit - grab #2		200	BDL	200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.79	12	9.1	7													
G09	06/07/11	Pit	W pit - grab #3		100	BDL	100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.23	BDL	BDL	0.82	8.2	8.9	6.3													
G09	06/07/11	Pit	W pit - grab #4		390	BDL	390	BDL	BDL	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.019	BDL	0.042	0.024	1.1	21	11	8.3												
G09	06/07/11	Pit	W pit - grab #5		3621	21	3600	BDL	BDL	BDL	BDL	0.14	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.63	BDL	0.19	BDL	1.6	11	9	5.7													
G09	07/14/11	Pit	PitX - East Pit North Central		1336	36	1300	BDL																																
G09	07/14/11	Pit	PitX - East Pit south Central		253.2	3.2	250	BDL																																
G09	07/14/11	Pit	PitX - Spoils		1101.7	1.7	1100	BDL																																
G09	07/14/11	Pit	PitX - West Pit East Bottom		1214	14	1200	BDL																																
G09	07/14/11	Pit	PitX - West Pit West bottom		1700.61	0.61	1700	BDL																																
G09	08/09/11	Pit	PitX - spoil		1700	BDL	1700																																	
G09	08/25/11	Pit	PITX-SPOIL		1100	BDL	1100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.058	BDL	0.046	BDL	2.2	16	8.1	8.6	2400	0.99	30	BDL	26	18	0.055	20	1.4	BDL	60		
G09	08/25/11	Pit	Spoil - E		74	3	71	BDL	BDL	0.0027	BDL	0.19	0.15	BDL	BDL	BDL	BDL	0.044	BDL	0.064	0.13	BDL	0.081	0.083	1	12	7.9	2.6	5100	0.43	17	BDL	20	16	0.16	7.8	BDL	BDL	36	
G09	09/14/11	Pit	Spoil - N1		730	BDL	730	BDL	BDL	BDL	BDL																													
G09	09/14/11	Pit	Spoil - N2		1300	BDL	1300	BDL	BDL	BDL	BDL																													
G09	09/14/11	Pit	Spoil - N3		1400	BDL	1400	BDL	BDL	BDL	BDL																													
G09	09/14/11	Pit	Spoil - N4		1200	BDL	1200	BDL	BDL	BDL	BDL																													
G09	10/19/11	Pit	Spoil - 1		2200	BDL	2200	BDL	BDL	BDL	BDL																													
G09	10/19/11	Pit	Spoil - 2		550	BDL	550	BDL	BDL	BDL	BDL																													
G09	10/19/11	Pit	Spoil - 3		390	BDL	390	BDL	BDL	BDL	BDL																													
G09	10/19/11	Pit	Spoil - 4		500	BDL	500	BDL	BDL	BDL	BDL																													
G09	10/19/11	Pit	Spoil - 5		680	BDL	680	BDL	BDL	BDL	BDL																													



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

Report Summary

Thursday August 05, 2010

Report Number: L471333

Samples Received: 07/30/10

Client Project: G09 Pit Closure

Description: G09 Pit Closure

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:

Jarred 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

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REPORT OF ANALYSIS

August 05, 2010

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

ESC Sample # : L471333-01

Date Received : July 30, 2010
 Description : G09 Pit Closure

Site ID :

Sample ID : G09-W PIT-072910

Project # : G09 Pit Closure

Collected By : Blair Rollins
 Collection Date : 07/29/10 10:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	08/03/10	1
Chromium,Trivalent	20.	0.50	mg/kg	Calc.	08/01/10	1
ORP	200		mV	2580	08/03/10	1
pH	11.		su	9045D	08/03/10	1
Sodium Adsorption Ratio	36.			Calc.	08/04/10	1
Specific Conductance	2200		umhos/cm	9050AMod	08/04/10	1
Mercury	0.020	0.020	mg/kg	7471	08/03/10	1
Arsenic	5.7	1.0	mg/kg	6010B	08/01/10	1
Barium	4300	0.25	mg/kg	6010B	08/01/10	1
Cadmium	0.52	0.25	mg/kg	6010B	08/01/10	1
Chromium	20.	0.50	mg/kg	6010B	08/01/10	1
Copper	21.	1.0	mg/kg	6010B	08/01/10	1
Lead	23.	0.25	mg/kg	6010B	08/01/10	1
Nickel	16.	1.0	mg/kg	6010B	08/01/10	1
Selenium	1.6	1.0	mg/kg	6010B	08/01/10	1
Silver	BDL	0.50	mg/kg	6010B	08/01/10	1
Zinc	44.	1.5	mg/kg	6010B	08/01/10	1
Benzene	0.36	0.025	mg/kg	8021/8015	07/31/10	50
Toluene	3.0	0.25	mg/kg	8021/8015	07/31/10	50
Ethylbenzene	0.95	0.025	mg/kg	8021/8015	07/31/10	50
Total Xylene	12.	0.075	mg/kg	8021/8015	07/31/10	50
TPH (GC/FID) Low Fraction	200	5.0	mg/kg	GRO	07/31/10	50
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	95.1		% Rec.	8021/8015	07/31/10	50
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021/8015	07/31/10	50
TPH (GC/FID) High Fraction	140	4.0	mg/kg	3546/DRO	08/02/10	1
Surrogate recovery(%)						
o-Terphenyl	58.2		% Rec.	3546/DRO	08/02/10	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20
Acenaphthene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20
Acenaphthylene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20
Benzo(a)anthracene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20
Benzo(a)pyrene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L471333-01 (PH) - 11.0@24.1c



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REPORT OF ANALYSIS

Chris Hines
 EnCana Oil & Gas Inc. - CO
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 Parachute, CO 81635

August 05, 2010

Date Received : July 30, 2010
 Description : G09 Pit Closure
 Sample ID : G09-W PIT-072910
 Collected By : Blair Rollins
 Collection Date : 07/29/10 10:30

ESC Sample # : L471333-01

Site ID :

Project # : G09 Pit Closure

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20
Benzo(g,h,i)perylene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20
Benzo(k)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20
Chrysene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20
Dibenz(a,h)anthracene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20
Fluoranthene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20
Fluorene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20
Indeno(1,2,3-cd)pyrene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20
Naphthalene	0.24	0.12	mg/kg	8270C-SIM	08/03/10	20
Phenanthrene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20
Pyrene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20
1-Methylnaphthalene	0.25	0.12	mg/kg	8270C-SIM	08/03/10	20
2-Methylnaphthalene	0.54	0.12	mg/kg	8270C-SIM	08/03/10	20
2-Chloronaphthalene	BDL	0.12	mg/kg	8270C-SIM	08/03/10	20
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C-SIM	08/03/10	20
2-Fluorobiphenyl	0.00		% Rec.	8270C-SIM	08/03/10	20
p-Terphenyl-d14	0.00		% Rec.	8270C-SIM	08/03/10	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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Reported: 08/05/10 16:51 Printed: 08/05/10 16:52
 L471333-01 (PH) - 11.0@24.1c



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REPORT OF ANALYSIS

August 05, 2010

Chris Hines
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 2717 County Road 215, Suite 100
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Date Received : July 30, 2010
 Description : G09 Pit Closure
 Sample ID : G09-E PIT-072910
 Collected By : Blair Rollins
 Collection Date : 07/29/10 10:50

ESC Sample # : L471333-02

Site ID :

Project # : G09 Pit Closure

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	08/03/10	1
Chromium,Trivalent	29.	0.50	mg/kg	Calc.	08/01/10	1
ORP	160		mV	2580	08/03/10	1
pH	8.2		su	9045D	08/03/10	1
Sodium Adsorption Ratio	36.			Calc.	08/04/10	1
Specific Conductance	1200		umhos/cm	9050AMod	08/04/10	1
Mercury	0.038	0.020	mg/kg	7471	08/03/10	1
Arsenic	9.8	1.0	mg/kg	6010B	08/01/10	1
Barium	1200	0.25	mg/kg	6010B	08/01/10	1
Cadmium	0.51	0.25	mg/kg	6010B	08/01/10	1
Chromium	29.	0.50	mg/kg	6010B	08/01/10	1
Copper	24.	1.0	mg/kg	6010B	08/01/10	1
Lead	16.	0.25	mg/kg	6010B	08/01/10	1
Nickel	22.	1.0	mg/kg	6010B	08/01/10	1
Selenium	2.0	1.0	mg/kg	6010B	08/01/10	1
Silver	BDL	0.50	mg/kg	6010B	08/01/10	1
Zinc	59.	1.5	mg/kg	6010B	08/01/10	1
Benzene	1.3	0.025	mg/kg	8021/8015	07/31/10	50
Toluene	1.7	0.25	mg/kg	8021/8015	07/31/10	50
Ethylbenzene	1.4	0.025	mg/kg	8021/8015	07/31/10	50
Total Xylene	10.	0.075	mg/kg	8021/8015	07/31/10	50
TPH (GC/FID) Low Fraction	290	5.0	mg/kg	GRO	07/31/10	50
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	91.1		% Rec.	8021/8015	07/31/10	50
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	07/31/10	50
TPH (GC/FID) High Fraction	420	20.	mg/kg	3546/DRO	08/02/10	5
Surrogate recovery(%)						
o-Terphenyl	70.4		% Rec.	3546/DRO	08/02/10	5
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.030	mg/kg	8270C-SIM	08/04/10	5
Acenaphthene	0.033	0.030	mg/kg	8270C-SIM	08/04/10	5
Acenaphthylene	BDL	0.030	mg/kg	8270C-SIM	08/04/10	5
Benzo(a)anthracene	BDL	0.030	mg/kg	8270C-SIM	08/04/10	5
Benzo(a)pyrene	BDL	0.030	mg/kg	8270C-SIM	08/04/10	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L471333-02 (PH) - 8.2@24.2c



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REPORT OF ANALYSIS

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 EnCana Oil & Gas Inc. - CO
 2717 County Road 215, Suite 100
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August 05, 2010

Date Received : July 30, 2010
 Description : G09 Pit Closure
 Sample ID : G09-E PIT-072910
 Collected By : Blair Rollins
 Collection Date : 07/29/10 10:50

ESC Sample # : L471333-02
 Site ID :
 Project # : G09 Pit Closure

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	08/04/10	5
Benzo(g,h,i)perylene	BDL	0.030	mg/kg	8270C-SIM	08/04/10	5
Benzo(k)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	08/04/10	5
Chrysene	BDL	0.030	mg/kg	8270C-SIM	08/04/10	5
Dibenz(a,h)anthracene	BDL	0.030	mg/kg	8270C-SIM	08/04/10	5
Fluoranthene	BDL	0.030	mg/kg	8270C-SIM	08/04/10	5
Fluorene	0.11	0.030	mg/kg	8270C-SIM	08/04/10	5
Indeno(1,2,3-cd)pyrene	BDL	0.030	mg/kg	8270C-SIM	08/04/10	5
Naphthalene	0.50	0.12	mg/kg	8270C-SIM	08/05/10	20
Phenanthrene	0.087	0.030	mg/kg	8270C-SIM	08/04/10	5
Pyrene	BDL	0.030	mg/kg	8270C-SIM	08/04/10	5
1-Methylnaphthalene	0.38	0.12	mg/kg	8270C-SIM	08/05/10	20
2-Methylnaphthalene	1.2	0.12	mg/kg	8270C-SIM	08/05/10	20
2-Chloronaphthalene	BDL	0.030	mg/kg	8270C-SIM	08/04/10	5
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C-SIM	08/05/10	20
2-Fluorobiphenyl	101.		% Rec.	8270C-SIM	08/04/10	5
p-Terphenyl-d14	106.		% Rec.	8270C-SIM	08/04/10	5

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: 08/05/10 16:51 Printed: 08/05/10 16:52
 L471333-02 (PH) - 8.2@24.2c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L471333-01	WG491255	SAMP	Nitrobenzene-d5	R1307009	J7
	WG491255	SAMP	2-Fluorobiphenyl	R1307009	J7
	WG491255	SAMP	p-Terphenyl-d14	R1307009	J7
L471333-02	WG491255	SAMP	Nitrobenzene-d5	R1307009	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

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
08/05/10 at 16:52:29

TSR Signing Reports: 358
R4 - Rush: Three Day

Create p-key for each project, and enter "project description" as Project Number and Project Name. Log all samples to separate L#s. Log all PAHs as SV8270PAHSIM. Log all BTEX samples by 8021.

Sample: L471333-01 Account: ENCANACO Received: 07/30/10 09:00 Due Date: 08/05/10 00:00 RPT Date: 08/05/10 16:51

Sample: L471333-02 Account: ENCANACO Received: 07/30/10 09:00 Due Date: 08/05/10 00:00 RPT Date: 08/05/10 16:51



YOUR LAB OF CHOICE

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 Chris Hines
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Quality Assurance Report
 Level II

L471333

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 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

August 05, 2010

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG491279	07/31/10 05:03
Ethylbenzene	< .0005	mg/kg			WG491279	07/31/10 05:03
Toluene	< .005	mg/kg			WG491279	07/31/10 05:03
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG491279	07/31/10 05:03
Total Xylene	< .0015	mg/kg			WG491279	07/31/10 05:03
a,a,a-Trifluorotoluene(FID)		% Rec.	100.2	59-128	WG491279	07/31/10 05:03
a,a,a-Trifluorotoluene(PID)		% Rec.	104.5	54-144	WG491279	07/31/10 05:03
1-Methylnaphthalene	< .006	mg/kg			WG491255	08/01/10 11:05
2-Chloronaphthalene	< .006	mg/kg			WG491255	08/01/10 11:05
2-Methylnaphthalene	< .006	mg/kg			WG491255	08/01/10 11:05
Acenaphthene	< .006	mg/kg			WG491255	08/01/10 11:05
Acenaphthylene	< .006	mg/kg			WG491255	08/01/10 11:05
Anthracene	< .006	mg/kg			WG491255	08/01/10 11:05
Benzo(a)anthracene	< .006	mg/kg			WG491255	08/01/10 11:05
Benzo(a)pyrene	< .006	mg/kg			WG491255	08/01/10 11:05
Benzo(b)fluoranthene	< .006	mg/kg			WG491255	08/01/10 11:05
Benzo(g,h,i)perylene	< .006	mg/kg			WG491255	08/01/10 11:05
Benzo(k)fluoranthene	< .006	mg/kg			WG491255	08/01/10 11:05
Chrysene	< .006	mg/kg			WG491255	08/01/10 11:05
Dibenz(a,h)anthracene	< .006	mg/kg			WG491255	08/01/10 11:05
Fluoranthene	< .006	mg/kg			WG491255	08/01/10 11:05
Fluorene	< .006	mg/kg			WG491255	08/01/10 11:05
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG491255	08/01/10 11:05
Naphthalene	< .006	mg/kg			WG491255	08/01/10 11:05
Phenanthrene	< .006	mg/kg			WG491255	08/01/10 11:05
Pyrene	< .006	mg/kg			WG491255	08/01/10 11:05
2-Fluorobiphenyl		% Rec.	73.36	21-120	WG491255	08/01/10 11:05
Nitrobenzene-d5		% Rec.	62.62	33-114	WG491255	08/01/10 11:05
p-Terphenyl-d14		% Rec.	100.1	18-142	WG491255	08/01/10 11:05
Arsenic	< 1	mg/kg			WG491238	08/01/10 17:26
Barium	< .25	mg/kg			WG491238	08/01/10 17:26
Cadmium	< .25	mg/kg			WG491238	08/01/10 17:26
Chromium	< .5	mg/kg			WG491238	08/01/10 17:26
Copper	< 1	mg/kg			WG491238	08/01/10 17:26
Lead	< .25	mg/kg			WG491238	08/01/10 17:26
Nickel	< 1	mg/kg			WG491238	08/01/10 17:26
Selenium	< 1	mg/kg			WG491238	08/01/10 17:26
Silver	< .5	mg/kg			WG491238	08/01/10 17:26
Zinc	< 1.5	mg/kg			WG491238	08/01/10 17:26
TPH (GC/FID) High Fraction	< 4	ppm			WG491253	08/02/10 14:21
o-Terphenyl		% Rec.	80.11	50-150	WG491253	08/02/10 14:21
Mercury	< .02	mg/kg			WG491179	08/03/10 09:09
pH	6.50	su			WG491330	08/03/10 15:52
Chromium,Hexavalent	< 2	mg/kg			WG491136	08/03/10 16:21
Specific Conductance	2.05	umhos/cm			WG491636	08/04/10 15:00

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Tax I.D. 62-0814289

Est. 1970

August 05, 2010

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Arsenic	mg/kg	9.40	9.00	3.92	20	L471390-04	WG491238
Barium	mg/kg	130.	120.	8.00	20	L471390-04	WG491238
Cadmium	mg/kg	0.410	0.390	4.02	20	L471390-04	WG491238
Chromium	mg/kg	13.0	13.0	3.03	20	L471390-04	WG491238
Copper	mg/kg	17.0	16.5	4.15	20	L471390-04	WG491238
Lead	mg/kg	24.0	20.0	19.8	20	L471390-04	WG491238
Nickel	mg/kg	18.0	18.3	1.65	20	L471390-04	WG491238
Selenium	mg/kg	3.60	4.40	18.6	20	L471390-04	WG491238
Silver	mg/kg	0	0	0	20	L471390-04	WG491238
Zinc	mg/kg	56.0	58.0	2.62	20	L471390-04	WG491238
Mercury	mg/kg	0.0320	0.0330	2.45	20	L471200-04	WG491179
pH	su	7.10	7.10	0	1	L471213-01	WG491330
pH	su	0	0	0	1	L471427-01	WG491330
Chromium,Hexavalent	mg/kg	0	0	0	20	L471047-01	WG491136
Chromium,Hexavalent	mg/kg	0	0	0	20	L471362-04	WG491136
ORP	mV	220.	220.	0	20	L471045-01	WG491167
ORP	mV	200.	200.	1.49	20	L471333-01	WG491167
Specific Conductance	umhos/cm	3700	3640	2.17	20	L471362-04	WG491636

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0527	105.	76-113	WG491279
Ethylbenzene	mg/kg	.05	0.0534	107.	78-115	WG491279
Toluene	mg/kg	.05	0.0534	107.	76-114	WG491279
Total Xylene	mg/kg	.15	0.166	111.	81-118	WG491279
a,a,a-Trifluorotoluene(FID)				99.70	59-128	WG491279
a,a,a-Trifluorotoluene(PID)				103.0	54-144	WG491279
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.00	109.	67-135	WG491279
a,a,a-Trifluorotoluene(FID)				94.17	59-128	WG491279
a,a,a-Trifluorotoluene(PID)				107.7	54-144	WG491279
1-Methylnaphthalene	mg/kg	.033	0.0254	77.1	41-110	WG491255
2-Chloronaphthalene	mg/kg	.033	0.0264	80.1	43-109	WG491255
2-Methylnaphthalene	mg/kg	.033	0.0259	78.4	38-104	WG491255
Acenaphthene	mg/kg	.033	0.0246	74.5	48-103	WG491255
Acenaphthylene	mg/kg	.033	0.0237	71.7	43-106	WG491255
Anthracene	mg/kg	.033	0.0247	74.9	51-110	WG491255
Benzo(a)anthracene	mg/kg	.033	0.0253	76.7	38-126	WG491255
Benzo(a)pyrene	mg/kg	.033	0.0223	67.5	47-118	WG491255
Benzo(b)fluoranthene	mg/kg	.033	0.0223	67.4	47-118	WG491255
Benzo(g,h,i)perylene	mg/kg	.033	0.0225	68.1	40-125	WG491255
Benzo(k)fluoranthene	mg/kg	.033	0.0273	82.6	45-121	WG491255
Chrysene	mg/kg	.033	0.0248	75.2	35-135	WG491255
Dibenz(a,h)anthracene	mg/kg	.033	0.0222	67.4	41-124	WG491255
Fluoranthene	mg/kg	.033	0.0222	67.2	50-114	WG491255
Fluorene	mg/kg	.033	0.0247	74.8	49-109	WG491255
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0222	67.1	40-126	WG491255

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Est. 1970

August 05, 2010

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Naphthalene	mg/kg	.033	0.0253	76.8	36-100	WG491255
Phenanthrene	mg/kg	.033	0.0242	73.4	46-108	WG491255
Pyrene	mg/kg	.033	0.0263	79.6	30-136	WG491255
2-Fluorobiphenyl				94.93	21-120	WG491255
Nitrobenzene-d5				83.61	33-114	WG491255
p-Terphenyl-d14				105.2	18-142	WG491255
Arsenic	mg/kg	192	167.	87.0	78.6-120.8	WG491238
Barium	mg/kg	420	392.	93.3	78.8-121.4	WG491238
Cadmium	mg/kg	70.1	62.7	89.4	78.5-121.5	WG491238
Chromium	mg/kg	168	157.	93.5	80.4-120.2	WG491238
Copper	mg/kg	122	114.	93.4	81.6-119.7	WG491238
Lead	mg/kg	113	93.4	82.7	77.3-122.1	WG491238
Nickel	mg/kg	74.1	75.4	102.	78.8-121.2	WG491238
Selenium	mg/kg	176	159.	90.3	75.6-125.0	WG491238
Silver	mg/kg	115	105.	91.3	66-133.9	WG491238
Zinc	mg/kg	437	394.	90.2	78.5-121.7	WG491238
TPH (GC/FID) High Fraction	ppm	60	49.7	82.8	50-150	WG491253
o-Terphenyl				101.9	50-150	WG491253
Mercury	mg/kg	8.77	10.4	119.	71.6-127.7	WG491179
pH	su	9.68	9.60	99.2	98.9-102.0	WG491330
Chromium, Hexavalent	mg/kg	100	95.5	95.5	50-143	WG491136
ORP	mV	229	220.	96.1	95.6-104.37	WG491167
Specific Conductance	umhos/cm	406	425.	105.	85-115	WG491636

Analyte	Units	Laboratory Control Sample Duplicate		Limit	RPD	Limit	Batch	
		Result	Ref					%Rec
Benzene	mg/kg	0.0518	0.0527	104.	76-113	1.63	20	WG491279
Ethylbenzene	mg/kg	0.0527	0.0534	105.	78-115	1.42	20	WG491279
Toluene	mg/kg	0.0522	0.0534	104.	76-114	2.25	20	WG491279
Total Xylene	mg/kg	0.164	0.166	109.	81-118	1.41	20	WG491279
a,a,a-Trifluorotoluene(FID)				98.76	59-128			WG491279
a,a,a-Trifluorotoluene(PID)				102.0	54-144			WG491279
TPH (GC/FID) Low Fraction	mg/kg	6.29	6.00	114.	67-135	4.68	20	WG491279
a,a,a-Trifluorotoluene(FID)				96.42	59-128			WG491279
a,a,a-Trifluorotoluene(PID)				108.4	54-144			WG491279
1-Methylnaphthalene	mg/kg	0.0260	0.0254	79.0	41-110	2.29	24	WG491255
2-Chloronaphthalene	mg/kg	0.0267	0.0264	81.0	43-109	0.895	21	WG491255
2-Methylnaphthalene	mg/kg	0.0253	0.0259	77.0	38-104	2.12	24	WG491255
Acenaphthene	mg/kg	0.0249	0.0246	76.0	48-103	1.41	20	WG491255
Acenaphthylene	mg/kg	0.0240	0.0237	73.0	43-106	1.34	20	WG491255
Anthracene	mg/kg	0.0249	0.0247	75.0	51-110	0.737	22	WG491255
Benzo(a)anthracene	mg/kg	0.0247	0.0253	75.0	38-126	2.31	20	WG491255

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Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
Benzo(a)pyrene	mg/kg	0.0234	0.0223	71.0		47-118	4.97	20	WG491255
Benzo(b)fluoranthene	mg/kg	0.0239	0.0223	72.0		47-118	7.13	29	WG491255
Benzo(g,h,i)perylene	mg/kg	0.0223	0.0225	68.0		40-125	0.652	20	WG491255
Benzo(k)fluoranthene	mg/kg	0.0297	0.0273	90.0		45-121	8.41	31	WG491255
Chrysene	mg/kg	0.0267	0.0248	81.0		35-135	7.45	20	WG491255
Dibenz(a,h)anthracene	mg/kg	0.0220	0.0222	67.0		41-124	0.938	20	WG491255
Fluoranthene	mg/kg	0.0269	0.0222	81.0		50-114	19.3	20	WG491255
Fluorene	mg/kg	0.0248	0.0247	75.0		49-109	0.493	19	WG491255
Indeno(1,2,3-cd)pyrene	mg/kg	0.0219	0.0222	66.0		40-126	0.976	20	WG491255
Naphthalene	mg/kg	0.0255	0.0253	77.0		36-100	0.748	24	WG491255
Phenanthrene	mg/kg	0.0241	0.0242	73.0		46-108	0.469	21	WG491255
Pyrene	mg/kg	0.0254	0.0263	77.0		30-136	3.24	20	WG491255
2-Fluorobiphenyl				102.8		21-120			WG491255
Nitrobenzene-d5				87.80		33-114			WG491255
p-Terphenyl-d14				114.6		18-142			WG491255
TPH (GC/FID) High Fraction	ppm	48.1	49.7	80.0		50-150	3.19	25	WG491253
o-Terphenyl				97.19		50-150			WG491253
pH	su	9.60	9.60	99.0		98.9-102.0	0	20	WG491330
Chromium,Hexavalent	mg/kg	95.0	95.5	95.0		50-143	0.525	20	WG491136
ORP	mV	220.	220.	96.0		95.6-104.37	0	20	WG491167
Specific Conductance	umhos/	425.	425.	105.		85-115	0	20	WG491636

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/kg	0.239	0	.05	95.6	32-137	L471362-02	WG491279
Ethylbenzene	mg/kg	0.224	0	.05	89.7	10-150	L471362-02	WG491279
Toluene	mg/kg	0.233	0	.05	93.4	20-142	L471362-02	WG491279
Total Xylene	mg/kg	0.701	0	.15	93.4	16-141	L471362-02	WG491279
a,a,a-Trifluorotoluene(FID)					97.83	59-128		WG491279
a,a,a-Trifluorotoluene(PID)					101.6	54-144		WG491279
TPH (GC/FID) Low Fraction	mg/kg	25.2	0	5.5	91.6	55-109	L471362-02	WG491279
a,a,a-Trifluorotoluene(FID)					93.28	59-128		WG491279
a,a,a-Trifluorotoluene(PID)					106.1	54-144		WG491279
1-Methylnaphthalene	mg/kg	0.0337	0	.033	102.	19-131	L471241-05	WG491255
2-Chloronaphthalene	mg/kg	0.0342	0	.033	104.	38-117	L471241-05	WG491255
2-Methylnaphthalene	mg/kg	0.0345	0	.033	104.	18-125	L471241-05	WG491255
Acenaphthene	mg/kg	0.0323	0	.033	98.0	31-120	L471241-05	WG491255
Acenaphthylene	mg/kg	0.0314	0	.033	95.2	34-116	L471241-05	WG491255
Anthracene	mg/kg	0.0316	0	.033	95.7	32-131	L471241-05	WG491255
Benzo(a)anthracene	mg/kg	0.0318	0	.033	96.4	32-131	L471241-05	WG491255
Benzo(a)pyrene	mg/kg	0.0311	0	.033	94.2	28-130	L471241-05	WG491255
Benzo(b)fluoranthene	mg/kg	0.0293	0	.033	88.7	37-130	L471241-05	WG491255
Benzo(g,h,i)perylene	mg/kg	0.0366	0	.033	111.	10-134	L471241-05	WG491255
Benzo(k)fluoranthene	mg/kg	0.0325	0	.033	98.5	31-129	L471241-05	WG491255
Chrysene	mg/kg	0.0319	0	.033	96.8	25-137	L471241-05	WG491255
Dibenz(a,h)anthracene	mg/kg	0.0341	0	.033	103.	20-134	L471241-05	WG491255

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August 05, 2010

Analyte	Units	MS Res	Matrix Spike			% Rec	Limit	Ref Samp	Batch
			Ref Res	TV					
Fluoranthene	mg/kg	0.0286	0	.033	86.6	27-138	L471241-05	WG491255	
Fluorene	mg/kg	0.0313	0	.033	94.9	26-136	L471241-05	WG491255	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0349	0	.033	106.	16-135	L471241-05	WG491255	
Naphthalene	mg/kg	0.0330	0	.033	100.	22-121	L471241-05	WG491255	
Phenanthrene	mg/kg	0.0341	0	.033	103.	27-133	L471241-05	WG491255	
Pyrene	mg/kg	0.0376	0	.033	114.	22-133	L471241-05	WG491255	
2-Fluorobiphenyl					119.7	21-120		WG491255	
Nitrobenzene-d5					114.8*	33-114		WG491255	
p-Terphenyl-d14					149.7*	18-142		WG491255	
Arsenic	mg/kg	51.2	9.00	50	84.4	75-125	L471390-04	WG491238	
Barium	mg/kg	182.	120.	50	124.	75-125	L471390-04	WG491238	
Cadmium	mg/kg	41.0	0.390	50	81.2	75-125	L471390-04	WG491238	
Chromium	mg/kg	56.7	13.0	50	87.4	75-125	L471390-04	WG491238	
Copper	mg/kg	61.8	16.5	50	90.6	75-125	L471390-04	WG491238	
Lead	mg/kg	69.1	20.0	50	98.2	75-125	L471390-04	WG491238	
Nickel	mg/kg	61.0	18.3	50	85.4	75-125	L471390-04	WG491238	
Selenium	mg/kg	44.6	4.40	50	80.4	75-125	L471390-04	WG491238	
Silver	mg/kg	43.2	0	50	86.4	75-125	L471390-04	WG491238	
Zinc	mg/kg	100.	58.0	50	84.0	75-125	L471390-04	WG491238	
TPH (GC/FID) High Fraction	ppm	95.6	77.0	60	31.0*	50-150	L470771-03	WG491253	
o-Terphenyl					84.43	50-150		WG491253	
Mercury	mg/kg	0.251	0.0330	.25	87.2	70-130	L471200-04	WG491179	
Chromium, Hexavalent	mg/kg	19.5	0	20	97.5	50-150	L471045-01	WG491136	

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.234	0.239	93.5	32-137	2.19	39	L471362-02	WG491279
Ethylbenzene	mg/kg	0.222	0.224	89.0	10-150	0.740	44	L471362-02	WG491279
Toluene	mg/kg	0.230	0.233	91.8	20-142	1.67	42	L471362-02	WG491279
Total Xylene	mg/kg	0.691	0.701	92.1	16-141	1.39	46	L471362-02	WG491279
a,a,a-Trifluorotoluene(FID)				97.49	59-128				WG491279
a,a,a-Trifluorotoluene(PID)				101.1	54-144				WG491279
TPH (GC/FID) Low Fraction	mg/kg	23.8	25.2	86.5	55-109	5.70	20	L471362-02	WG491279
a,a,a-Trifluorotoluene(FID)				93.25	59-128				WG491279
a,a,a-Trifluorotoluene(PID)				106.0	54-144				WG491279
1-Methylnaphthalene	mg/kg	0.0221	0.0337	66.9	19-131	41.9*	30	L471241-05	WG491255
2-Chloronaphthalene	mg/kg	0.0211	0.0342	63.8	38-117	47.6*	26	L471241-05	WG491255
2-Methylnaphthalene	mg/kg	0.0224	0.0345	67.8	18-125	42.5*	29	L471241-05	WG491255
Acenaphthene	mg/kg	0.0214	0.0323	64.8	31-120	40.8*	30	L471241-05	WG491255
Acenaphthylene	mg/kg	0.0207	0.0314	62.6	34-116	41.3*	29	L471241-05	WG491255
Anthracene	mg/kg	0.0219	0.0316	66.5	32-131	36.1*	26	L471241-05	WG491255
Benzo(a)anthracene	mg/kg	0.0212	0.0318	64.3	32-131	39.9*	31	L471241-05	WG491255
Benzo(a)pyrene	mg/kg	0.0214	0.0311	64.7	28-130	37.1*	28	L471241-05	WG491255
Benzo(b)fluoranthene	mg/kg	0.0213	0.0293	64.4	37-130	31.7	41	L471241-05	WG491255
Benzo(g,h,i)perylene	mg/kg	0.0244	0.0366	73.8	10-134	40.2*	26	L471241-05	WG491255
Benzo(k)fluoranthene	mg/kg	0.0210	0.0325	63.7	31-129	42.9*	42	L471241-05	WG491255
Chrysene	mg/kg	0.0221	0.0319	67.1	25-137	36.3*	22	L471241-05	WG491255
Dibenz(a,h)anthracene	mg/kg	0.0227	0.0341	68.7	20-134	40.2*	25	L471241-05	WG491255

* 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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Quality Assurance Report
 Level II

L471333

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August 05, 2010

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
Fluoranthene	mg/kg	0.0229	0.0286	69.2	27-138	22.2	35	L471241-05	WG491255	
Fluorene	mg/kg	0.0221	0.0313	66.9	26-136	34.6*	30	L471241-05	WG491255	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0229	0.0349	69.3	16-135	41.6*	26	L471241-05	WG491255	
Naphthalene	mg/kg	0.0220	0.0330	66.6	22-121	40.1*	30	L471241-05	WG491255	
Phenanthrene	mg/kg	0.0245	0.0341	74.3	27-133	32.7	36	L471241-05	WG491255	
Pyrene	mg/kg	0.0229	0.0376	69.4	22-133	48.4*	33	L471241-05	WG491255	
2-Fluorobiphenyl				79.53	21-120				WG491255	
Nitrobenzene-d5				72.86	33-114				WG491255	
p-Terphenyl-d14				90.34	18-142				WG491255	
Arsenic	mg/kg	55.2	51.2	92.4	75-125	7.52	20	L471390-04	WG491238	
Barium	mg/kg	192.	182.	144.*	75-125	5.35	20	L471390-04	WG491238	
Cadmium	mg/kg	44.5	41.0	88.2	75-125	8.19	20	L471390-04	WG491238	
Chromium	mg/kg	61.2	56.7	96.4	75-125	7.63	20	L471390-04	WG491238	
Copper	mg/kg	66.5	61.8	100.	75-125	7.33	20	L471390-04	WG491238	
Lead	mg/kg	69.0	69.1	98.0	75-125	0.145	20	L471390-04	WG491238	
Nickel	mg/kg	65.9	61.0	95.2	75-125	7.72	20	L471390-04	WG491238	
Selenium	mg/kg	47.3	44.6	85.8	75-125	5.88	20	L471390-04	WG491238	
Silver	mg/kg	46.6	43.2	93.2	75-125	7.57	20	L471390-04	WG491238	
Zinc	mg/kg	105.	100.	94.0	75-125	4.88	20	L471390-04	WG491238	
TPH (GC/FID) High Fraction	ppm	84.9	95.6	13.1*	50-150	11.9	25	L470771-03	WG491253	
o-Terphenyl				81.67	50-150				WG491253	
Mercury	mg/kg	0.249	0.251	86.4	70-130	0.800	20	L471200-04	WG491179	
Chromium,Hexavalent	mg/kg	18.3	19.5	91.5	50-150	6.35	20	L471045-01	WG491136	

Batch number /Run number / Sample number cross reference

WG491279: R1306750: L471333-01 02
 WG491255: R1307009: L471333-01 02
 WG491238: R1307316: L471333-01 02
 WG491253: R1309288: L471333-01 02
 WG491179: R1310329: L471333-01 02
 WG491167: R1310928: L471333-01 02
 WG491330: R1311008: L471333-01 02
 WG491136: R1311089: L471333-01 02
 WG491466: R1312148: L471333-01 02
 WG491636: R1313928: L471333-01 02

* * 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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August 05, 2010

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

Report Summary

Thursday June 16, 2011

Report Number: L519796

Samples Received: 06/08/11

Client Project:

Description: G09

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

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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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REPORT OF ANALYSIS

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

June 16, 2011

Date Received : June 08, 2011
 Description : G09
 Sample ID : G09-CUT-060711 10-12IN
 Collected By : Brannen Graff
 Collection Date : 06/07/11 12:45

ESC Sample # : L519796-01
 Site ID : G09
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/15/11	1
Chromium,Trivalent	16.	2.0	mg/kg	Calc.	06/10/11	1
ORP	23.		mV	2580	06/15/11	1
pH	12.		su	9045D	06/11/11	1
Sodium Adsorption Ratio	15.			Calc.	06/10/11	1
Specific Conductance	4600		umhos/cm	9050AMod	06/14/11	1
Mercury	0.026	0.020	mg/kg	7471	06/10/11	1
Arsenic	6.0	1.0	mg/kg	6010B	06/10/11	1
Barium	3400	0.25	mg/kg	6010B	06/10/11	1
Cadmium	0.42	0.25	mg/kg	6010B	06/10/11	1
Chromium	16.	0.50	mg/kg	6010B	06/10/11	1
Copper	21.	2.0	mg/kg	6010B	06/10/11	2
Lead	16.	0.50	mg/kg	6010B	06/10/11	2
Nickel	11.	1.0	mg/kg	6010B	06/10/11	1
Selenium	BDL	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	49.	1.5	mg/kg	6010B	06/10/11	1
Benzene	BDL	0.0025	mg/kg	8021/8015	06/09/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/09/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/09/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/09/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/09/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8021/8015	06/09/11	5
a,a,a-Trifluorotoluene(PID)	107.		% Rec.	8021/8015	06/09/11	5
TPH (GC/FID) High Fraction	120	4.0	mg/kg	3546/DRO	06/12/11	1
Surrogate recovery(%)						
o-Terphenyl	55.2		% Rec.	3546/DRO	06/12/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.060	mg/kg	8270C-SIM	06/13/11	10
Acenaphthene	BDL	0.060	mg/kg	8270C-SIM	06/13/11	10
Acenaphthylene	BDL	0.060	mg/kg	8270C-SIM	06/13/11	10
Benzo(a)anthracene	BDL	0.060	mg/kg	8270C-SIM	06/13/11	10
Benzo(a)pyrene	BDL	0.060	mg/kg	8270C-SIM	06/13/11	10

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L519796-01 (PH) - 12@20.9C



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REPORT OF ANALYSIS

June 16, 2011

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

ESC Sample # : L519796-01

Date Received : June 08, 2011
Description : G09

Site ID : G09

Sample ID : G09-CUT-060711 10-12IN

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 12:45

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include various polycyclic aromatic hydrocarbons and surrogate recovery results.

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: 06/16/11 12:21 Printed: 06/16/11 12:22
L519796-01 (PH) - 12@20.9C



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REPORT OF ANALYSIS

Chris Hines
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2717 County Road 215, Suite 100
Parachute, CO 81635

June 16, 2011

Date Received : June 08, 2011
Description : G09
Sample ID : G09-BGNE-060711 10-12IN
Collected By : Brannen Graff
Collection Date : 06/07/11 12:15

ESC Sample # : L519796-02
Site ID : G09
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	15.	1.0	mg/kg	6010B	06/09/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 06/16/11 12:21 Printed: 06/16/11 12:22



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REPORT OF ANALYSIS

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Parachute, CO 81635

June 16, 2011

Date Received : June 08, 2011
Description : G09
Sample ID : G09-BGE-060711 10-12IN
Collected By : Brannen Graff
Collection Date : 06/07/11 12:20

ESC Sample # : L519796-03

Site ID : G09

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	7.5	1.0	mg/kg	6010B	06/09/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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June 16, 2011

Date Received : June 08, 2011
Description : G09
Sample ID : G09-BGSE-060711 10-12IN
Collected By : Brannen Graff
Collection Date : 06/07/11 12:25

ESC Sample # : L519796-04
Site ID : G09
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	6.8	1.0	mg/kg	6010B	06/09/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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June 16, 2011

Date Received : June 08, 2011
Description : G09
Sample ID : G09-BGS-060711 10-12IN
Collected By : Brannen Graff
Collection Date : 06/07/11 12:31

ESC Sample # : L519796-05

Site ID : G09

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.8	1.0	mg/kg	6010B	06/09/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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

June 16, 2011

Date Received : June 08, 2011
Description : G09
Sample ID : G09-BGSW-060711 10-12IN
Collected By : Brannen Graff
Collection Date : 06/07/11 12:37

ESC Sample # : L519796-06
Site ID : G09
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.9	1.0	mg/kg	6010B	06/09/11	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: 06/16/11 12:21 Printed: 06/16/11 12:22

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L519796-01	WG539531	SAMP	TPH (GC/FID) Low Fraction	R1720792	J3
	WG540034	SAMP	Benzo(a)pyrene	R1721270	J3

Attachment B
Explanation of QC Qualifier Codes

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

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
06/16/11 at 12:22:18

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L519796-01 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 12:21
Sample: L519796-02 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 12:21
Sample: L519796-03 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 12:21
Sample: L519796-04 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 12:21
Sample: L519796-05 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 12:21
Sample: L519796-06 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 12:21



YOUR LAB OF CHOICE

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

Quality Assurance Report
 Level II

L519796

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

June 16, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Arsenic	< 1	mg/kg			WG539594	06/09/11 18:37
Arsenic	< 1	mg/kg			WG539593	06/10/11 11:07
Barium	< .25	mg/kg			WG539593	06/10/11 11:07
Cadmium	< .25	mg/kg			WG539593	06/10/11 11:07
Chromium	< .5	mg/kg			WG539593	06/10/11 11:07
Copper	< 1	mg/kg			WG539593	06/10/11 11:07
Lead	< .25	mg/kg			WG539593	06/10/11 11:07
Nickel	< 1	mg/kg			WG539593	06/10/11 11:07
Selenium	< 1	mg/kg			WG539593	06/10/11 11:07
Zinc	< 1.5	mg/kg			WG539593	06/10/11 11:07
Silver	< .5	mg/kg			WG539593	06/10/11 13:26
Mercury	< .02	mg/kg			WG539585	06/10/11 03:57
TPH (GC/FID) High Fraction	< 4	ppm			WG539462	06/12/11 03:44
o-Terphenyl		% Rec.	70.37	50-150	WG539462	06/12/11 03:44
Benzene	< .0005	mg/kg			WG539531	06/09/11 14:24
Ethylbenzene	< .0005	mg/kg			WG539531	06/09/11 14:24
Toluene	< .005	mg/kg			WG539531	06/09/11 14:24
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG539531	06/09/11 14:24
Total Xylene	< .0015	mg/kg			WG539531	06/09/11 14:24
a,a,a-Trifluorotoluene(FID)		% Rec.	101.6	59-128	WG539531	06/09/11 14:24
a,a,a-Trifluorotoluene(PID)		% Rec.	106.3	54-144	WG539531	06/09/11 14:24
pH	4.00	su			WG539889	06/11/11 14:14
1-Methylnaphthalene	< .006	mg/kg			WG540034	06/13/11 10:24
2-Chloronaphthalene	< .006	mg/kg			WG540034	06/13/11 10:24
2-Methylnaphthalene	< .006	mg/kg			WG540034	06/13/11 10:24
Acenaphthene	< .006	mg/kg			WG540034	06/13/11 10:24
Acenaphthylene	< .006	mg/kg			WG540034	06/13/11 10:24
Anthracene	< .006	mg/kg			WG540034	06/13/11 10:24
Benzo(a)anthracene	< .006	mg/kg			WG540034	06/13/11 10:24
Benzo(a)pyrene	< .006	mg/kg			WG540034	06/13/11 10:24
Benzo(b)fluoranthene	< .006	mg/kg			WG540034	06/13/11 10:24
Benzo(g,h,i)perylene	< .006	mg/kg			WG540034	06/13/11 10:24
Benzo(k)fluoranthene	< .006	mg/kg			WG540034	06/13/11 10:24
Chrysene	< .006	mg/kg			WG540034	06/13/11 10:24
Dibenz(a,h)anthracene	< .006	mg/kg			WG540034	06/13/11 10:24
Fluoranthene	< .006	mg/kg			WG540034	06/13/11 10:24
Fluorene	< .006	mg/kg			WG540034	06/13/11 10:24
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG540034	06/13/11 10:24
Naphthalene	< .006	mg/kg			WG540034	06/13/11 10:24
Phenanthrene	< .006	mg/kg			WG540034	06/13/11 10:24
Pyrene	< .006	mg/kg			WG540034	06/13/11 10:24
2-Fluorobiphenyl		% Rec.	76.20	21-120	WG540034	06/13/11 10:24
Nitrobenzene-d5		% Rec.	66.85	33-114	WG540034	06/13/11 10:24
p-Terphenyl-d14		% Rec.	82.57	18-142	WG540034	06/13/11 10:24
Specific Conductance	0.860	umhos/cm			WG540012	06/14/11 15:04

* 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

June 16, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Chromium,Hexavalent	< 2	mg/kg			WG540021	06/15/11 15:00

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Arsenic	mg/kg	6.40	6.40	0.156	20	L519815-07	WG539594
Arsenic	mg/kg	3.40	3.40	0.590	20	L519761-01	WG539593
Barium	mg/kg	110.	108.	1.87	20	L519761-01	WG539593
Cadmium	mg/kg	0	0	0	20	L519761-01	WG539593
Chromium	mg/kg	15.0	17.0	12.5	20	L519761-01	WG539593
Copper	mg/kg	16.0	16.0	2.53	20	L519761-01	WG539593
Lead	mg/kg	13.0	16.0	19.2	20	L519761-01	WG539593
Nickel	mg/kg	14.0	12.0	17.5	20	L519761-01	WG539593
Selenium	mg/kg	1.10	0	NA	20	L519761-01	WG539593
Silver	mg/kg	0	0.129	NA	20	L519761-01	WG539593
Zinc	mg/kg	49.0	48.0	1.65	20	L519761-01	WG539593
Mercury	mg/kg	0.0170	0.0160	6.06	20	L519815-01	WG539585
pH	su	8.40	8.40	0	1	L519784-01	WG539889
pH	su	6.00	6.00	0	1	L520058-04	WG539889
Specific Conductance	umhos/cm	570.	540.	5.93	20	L519788-03	WG540012
Specific Conductance	umhos/cm	4.30	4.30	0.232	20	L520080-03	WG540012
ORP	mV	82.0	73.0	11.6	20	L519772-01	WG540230
ORP	mV	96.0	92.0	4.26	20	L520373-08	WG540230
Chromium,Hexavalent	mg/kg	0	0	0	20	L519784-01	WG540021
Chromium,Hexavalent	mg/kg	0	0	0	20	L520405-01	WG540021

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Arsenic	mg/kg	192	170.	88.5	78.6-120.8	WG539594
Arsenic	mg/kg	192	164.	85.4	78.6-120.8	WG539593
Barium	mg/kg	420	382.	91.0	78.8-121.4	WG539593
Cadmium	mg/kg	70.1	60.8	86.7	78.5-121.5	WG539593
Chromium	mg/kg	168	155.	92.3	80.4-120.2	WG539593
Copper	mg/kg	122	115.	94.3	81.6-119.7	WG539593
Lead	mg/kg	113	98.2	86.9	77.3-122.1	WG539593
Nickel	mg/kg	74.1	63.6	85.8	78.8-121.2	WG539593
Selenium	mg/kg	176	158.	89.8	75.6-125.0	WG539593
Silver	mg/kg	115	106.	92.2	66-133.9	WG539593
Zinc	mg/kg	437	384.	87.9	78.5-121.7	WG539593
Mercury	mg/kg	8.77	8.60	98.1	71.6-127.7	WG539585

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
TPH (GC/FID) High Fraction	ppm	60	47.8	79.7	50-150	WG539462
o-Terphenyl				75.97	50-150	WG539462
Benzene	mg/kg	.05	0.0528	106.	76-113	WG539531
Ethylbenzene	mg/kg	.05	0.0536	107.	78-115	WG539531
Toluene	mg/kg	.05	0.0568	114.	76-114	WG539531
Total Xylene	mg/kg	.15	0.158	106.	81-118	WG539531
a,a,a-Trifluorotoluene(PID)				105.1	54-144	WG539531
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.24	114.	67-135	WG539531
a,a,a-Trifluorotoluene(FID)				107.1	59-128	WG539531
pH	su	6.3	6.30	100.	97.98-102.02	WG539889
1-Methylnaphthalene	mg/kg	.033	0.0212	64.3	41-110	WG540034
2-Chloronaphthalene	mg/kg	.033	0.0229	69.3	43-109	WG540034
2-Methylnaphthalene	mg/kg	.033	0.0218	66.2	38-104	WG540034
Acenaphthene	mg/kg	.033	0.0236	71.5	48-103	WG540034
Acenaphthylene	mg/kg	.033	0.0233	70.5	43-106	WG540034
Anthracene	mg/kg	.033	0.0261	79.2	51-110	WG540034
Benzo(a)anthracene	mg/kg	.033	0.0243	73.7	38-126	WG540034
Benzo(a)pyrene	mg/kg	.033	0.0245	74.4	47-118	WG540034
Benzo(b)fluoranthene	mg/kg	.033	0.0243	73.5	47-118	WG540034
Benzo(g,h,i)perylene	mg/kg	.033	0.0264	80.0	40-125	WG540034
Benzo(k)fluoranthene	mg/kg	.033	0.0264	80.1	45-121	WG540034
Chrysene	mg/kg	.033	0.0247	74.9	35-135	WG540034
Dibenz(a,h)anthracene	mg/kg	.033	0.0252	76.3	41-124	WG540034
Fluoranthene	mg/kg	.033	0.0272	82.5	50-114	WG540034
Fluorene	mg/kg	.033	0.0251	76.0	49-109	WG540034
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0257	77.8	40-126	WG540034
Naphthalene	mg/kg	.033	0.0217	65.6	36-100	WG540034
Phenanthrene	mg/kg	.033	0.0246	74.5	46-108	WG540034
Pyrene	mg/kg	.033	0.0270	81.9	30-136	WG540034
2-Fluorobiphenyl				68.29	33-114	WG540034
Nitrobenzene-d5				66.60	21-120	WG540034
p-Terphenyl-d14				76.71	18-142	WG540034
Specific Conductance	umhos/cm	442	440.	99.5	85-115	WG540012
ORP	mV	229	230.	100.	95.6-104.37	WG540230
Chromium,Hexavalent	mg/kg	132	100.	75.8	50-150	WG540021

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
TPH (GC/FID) High Fraction	ppm	45.6	47.8	76.0	50-150	4.74	25	WG539462
o-Terphenyl				72.28	50-150			WG539462
Benzene	mg/kg	0.0518	0.0528	104.	76-113	2.06	20	WG539531
Ethylbenzene	mg/kg	0.0527	0.0536	105.	78-115	1.77	20	WG539531
Toluene	mg/kg	0.0558	0.0568	112.	76-114	1.79	20	WG539531
Total Xylene	mg/kg	0.156	0.158	104.	81-118	1.24	20	WG539531

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Tax I.D. 62-0814289

Est. 1970

June 16, 2011

Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
a,a,a-Trifluorotoluene(PID)				106.3		54-144			
TPH (GC/FID) Low Fraction	mg/kg	6.34	6.24	115.		67-135	1.52	20	WG539531
a,a,a-Trifluorotoluene(FID)				107.2		59-128			WG539531
pH	su	6.30	6.30	100.		97.98-102.02	0	20	WG539889
1-Methylnaphthalene	mg/kg	0.0249	0.0212	76.0		41-110	16.2	24	WG540034
2-Chloronaphthalene	mg/kg	0.0256	0.0229	78.0		43-109	11.2	21	WG540034
2-Methylnaphthalene	mg/kg	0.0254	0.0218	77.0		38-104	15.2	24	WG540034
Acenaphthene	mg/kg	0.0271	0.0236	82.0		48-103	14.0	20	WG540034
Acenaphthylene	mg/kg	0.0272	0.0233	82.0		43-106	15.4	20	WG540034
Anthracene	mg/kg	0.0295	0.0261	89.0		51-110	11.9	22	WG540034
Benzo(a)anthracene	mg/kg	0.0271	0.0243	82.0		38-126	10.7	20	WG540034
Benzo(a)pyrene	mg/kg	0.0308	0.0245	93.0		47-118	22.6*	20	WG540034
Benzo(b)fluoranthene	mg/kg	0.0265	0.0243	80.0		47-118	8.81	29	WG540034
Benzo(g,h,i)perylene	mg/kg	0.0297	0.0264	90.0		40-125	11.7	20	WG540034
Benzo(k)fluoranthene	mg/kg	0.0304	0.0264	92.0		45-121	13.9	31	WG540034
Chrysene	mg/kg	0.0281	0.0247	85.0		35-135	12.8	20	WG540034
Dibenz(a,h)anthracene	mg/kg	0.0283	0.0252	86.0		41-124	11.8	20	WG540034
Fluoranthene	mg/kg	0.0305	0.0272	92.0		50-114	11.3	20	WG540034
Fluorene	mg/kg	0.0280	0.0251	85.0		49-109	11.1	19	WG540034
Indeno(1,2,3-cd)pyrene	mg/kg	0.0288	0.0257	87.0		40-126	11.5	20	WG540034
Naphthalene	mg/kg	0.0242	0.0217	73.0		36-100	11.2	24	WG540034
Phenanthrene	mg/kg	0.0278	0.0246	84.0		46-108	12.1	21	WG540034
Pyrene	mg/kg	0.0300	0.0270	91.0		30-136	10.6	20	WG540034
2-Fluorobiphenyl				79.29		33-114			WG540034
Nitrobenzene-d5				75.44		21-120			WG540034
p-Terphenyl-d14				85.12		18-142			WG540034
Specific Conductance	umhos/	440.	440.	100.		85-115	0	20	WG540012
ORP	mV	220.	230.	96.0		95.6-104.37	4.44	20	WG540230
Chromium,Hexavalent	mg/kg	110.	100.	83.0		50-150	9.52	20	WG540021

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Arsenic	mg/kg	49.7	6.40	50	86.6	75-125	L519815-07	WG539594
Arsenic	mg/kg	48.8	3.40	50	90.8	75-125	L519761-01	WG539593
Barium	mg/kg	158.	108.	50	100.	75-125	L519761-01	WG539593
Cadmium	mg/kg	46.4	0	50	92.8	75-125	L519761-01	WG539593
Chromium	mg/kg	60.7	17.0	50	87.4	75-125	L519761-01	WG539593
Copper	mg/kg	62.3	16.0	50	92.6	75-125	L519761-01	WG539593
Lead	mg/kg	62.1	16.0	50	92.2	75-125	L519761-01	WG539593
Nickel	mg/kg	50.6	12.0	50	77.2	75-125	L519761-01	WG539593
Selenium	mg/kg	45.1	0	50	90.2	75-125	L519761-01	WG539593
Silver	mg/kg	45.4	0.129	50	90.5	75-125	L519761-01	WG539593
Zinc	mg/kg	95.1	48.0	50	94.2	75-125	L519761-01	WG539593
Mercury	mg/kg	0.250	0.0160	.25	93.6	70-130	L519815-01	WG539585

* Performance of this Analyte is outside of established criteria.
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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
TPH (GC/FID) High Fraction	ppm	163.	120.	60	70.9	50-150	L519796-01	WG539462
o-Terphenyl					58.27	50-150		WG539462
Benzene	mg/kg	0.194	0	.05	77.8	32-137	L519796-01	WG539531
Ethylbenzene	mg/kg	0.158	0	.05	63.2	10-150	L519796-01	WG539531
Toluene	mg/kg	0.189	0	.05	75.6	20-142	L519796-01	WG539531
Total Xylene	mg/kg	0.466	0	.15	62.1	16-141	L519796-01	WG539531
a,a,a-Trifluorotoluene(PID)					105.4	54-144		WG539531
TPH (GC/FID) Low Fraction	mg/kg	22.2	0	5.5	80.6	55-109	L519796-01	WG539531
a,a,a-Trifluorotoluene(FID)					104.6	59-128		WG539531
1-Methylnaphthalene	mg/kg	0.0261	0	.033	79.1	19-131	L519957-03	WG540034
2-Chloronaphthalene	mg/kg	0.0272	0	.033	82.5	38-117	L519957-03	WG540034
2-Methylnaphthalene	mg/kg	0.0257	0	.033	78.0	18-125	L519957-03	WG540034
Acenaphthene	mg/kg	0.0225	0	.033	68.2	31-120	L519957-03	WG540034
Acenaphthylene	mg/kg	0.0250	0	.033	75.6	34-116	L519957-03	WG540034
Anthracene	mg/kg	0.0231	0	.033	70.0	32-131	L519957-03	WG540034
Benzo(a)anthracene	mg/kg	0.0290	0.00940	.033	59.5	32-131	L519957-03	WG540034
Benzo(a)pyrene	mg/kg	0.0248	0	.033	75.3	28-130	L519957-03	WG540034
Benzo(b)fluoranthene	mg/kg	0.0311	0.00990	.033	64.3	37-130	L519957-03	WG540034
Benzo(g,h,i)perylene	mg/kg	0.0221	0	.033	67.1	10-134	L519957-03	WG540034
Benzo(k)fluoranthene	mg/kg	0.0254	0	.033	77.0	31-129	L519957-03	WG540034
Chrysene	mg/kg	0.0242	0	.033	73.3	25-137	L519957-03	WG540034
Dibenz(a,h)anthracene	mg/kg	0.0176	0	.033	53.4	20-134	L519957-03	WG540034
Fluoranthene	mg/kg	0.0268	0	.033	81.3	27-138	L519957-03	WG540034
Fluorene	mg/kg	0.0254	0	.033	76.9	26-136	L519957-03	WG540034
Indeno(1,2,3-cd)pyrene	mg/kg	0.0181	0	.033	54.8	16-135	L519957-03	WG540034
Naphthalene	mg/kg	0.0251	0	.033	76.0	22-121	L519957-03	WG540034
Phenanthrene	mg/kg	0.0279	0	.033	84.6	27-133	L519957-03	WG540034
Pyrene	mg/kg	0.0293	0	.033	88.8	22-133	L519957-03	WG540034
2-Fluorobiphenyl					67.78	33-114		WG540034
Nitrobenzene-d5					87.09	21-120		WG540034
p-Terphenyl-d14					66.63	18-142		WG540034
Chromium,Hexavalent	mg/kg	0	0	20	0*	50-150	L520219-01	WG540021

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Arsenic	mg/kg	49.2	49.7	85.6	75-125	1.01	20	L519815-07	WG539594
Arsenic	mg/kg	45.0	48.8	83.2	75-125	8.10	20	L519761-01	WG539593
Barium	mg/kg	137.	158.	58.0*	75-125	14.2	20	L519761-01	WG539593
Cadmium	mg/kg	43.8	46.4	87.6	75-125	5.76	20	L519761-01	WG539593
Chromium	mg/kg	55.3	60.7	76.6	75-125	9.31	20	L519761-01	WG539593
Copper	mg/kg	59.7	62.3	87.4	75-125	4.26	20	L519761-01	WG539593
Lead	mg/kg	56.6	62.1	81.2	75-125	9.27	20	L519761-01	WG539593
Nickel	mg/kg	48.5	50.6	73.0*	75-125	4.24	20	L519761-01	WG539593
Selenium	mg/kg	42.6	45.1	85.2	75-125	5.70	20	L519761-01	WG539593
Silver	mg/kg	45.1	45.4	89.9	75-125	0.663	20	L519761-01	WG539593
Zinc	mg/kg	85.4	95.1	74.8*	75-125	10.7	20	L519761-01	WG539593
Mercury	mg/kg	0.240	0.250	89.6	70-130	4.08	20	L519815-01	WG539585

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

Quality Assurance Report
 Level II

L519796

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

June 16, 2011

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
TPH (GC/FID) High Fraction	ppm	174.	163.	89.7	50-150	6.71	25	L519796-01	WG539462	
o-Terphenyl				73.97	50-150				WG539462	
Benzene	mg/kg	0.222	0.194	88.9	32-137	13.4	39	L519796-01	WG539531	
Ethylbenzene	mg/kg	0.178	0.158	71.0	10-150	11.6	44	L519796-01	WG539531	
Toluene	mg/kg	0.215	0.189	85.8	20-142	12.7	42	L519796-01	WG539531	
Total Xylene	mg/kg	0.517	0.466	69.0	16-141	10.5	46	L519796-01	WG539531	
a,a,a-Trifluorotoluene(PID)				105.5	54-144				WG539531	
TPH (GC/FID) Low Fraction	mg/kg	15.8	22.2	57.6	55-109	33.3*	20	L519796-01	WG539531	
a,a,a-Trifluorotoluene(FID)				102.5	59-128				WG539531	
1-Methylnaphthalene	mg/kg	0.0236	0.0261	71.4	19-131	10.2	30	L519957-03	WG540034	
2-Chloronaphthalene	mg/kg	0.0238	0.0272	72.1	38-117	13.5	26	L519957-03	WG540034	
2-Methylnaphthalene	mg/kg	0.0217	0.0257	65.8	18-125	16.8	29	L519957-03	WG540034	
Acenaphthene	mg/kg	0.0189	0.0225	57.1	31-120	17.7	30	L519957-03	WG540034	
Acenaphthylene	mg/kg	0.0212	0.0250	64.1	34-116	16.5	29	L519957-03	WG540034	
Anthracene	mg/kg	0.0207	0.0231	62.6	32-131	11.1	26	L519957-03	WG540034	
Benzo(a)anthracene	mg/kg	0.0201	0.0290	32.4	32-131	36.4*	31	L519957-03	WG540034	
Benzo(a)pyrene	mg/kg	0.0204	0.0248	61.8	28-130	19.7	28	L519957-03	WG540034	
Benzo(b)fluoranthene	mg/kg	0.0252	0.0311	46.5	37-130	20.9	41	L519957-03	WG540034	
Benzo(g,h,i)perylene	mg/kg	0.0152	0.0221	46.0	10-134	37.2*	26	L519957-03	WG540034	
Benzo(k)fluoranthene	mg/kg	0.0205	0.0254	62.1	31-129	21.5	42	L519957-03	WG540034	
Chrysene	mg/kg	0.0212	0.0242	64.3	25-137	13.0	22	L519957-03	WG540034	
Dibenz(a,h)anthracene	mg/kg	0.0149	0.0176	45.2	20-134	16.5	25	L519957-03	WG540034	
Fluoranthene	mg/kg	0.0217	0.0268	65.6	27-138	21.3	35	L519957-03	WG540034	
Fluorene	mg/kg	0.0198	0.0254	60.0	26-136	24.7	30	L519957-03	WG540034	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0144	0.0181	43.5	16-135	22.9	26	L519957-03	WG540034	
Naphthalene	mg/kg	0.0225	0.0251	68.2	22-121	10.8	30	L519957-03	WG540034	
Phenanthrene	mg/kg	0.0234	0.0279	71.0	27-133	17.4	36	L519957-03	WG540034	
Pyrene	mg/kg	0.0244	0.0293	74.0	22-133	18.2	33	L519957-03	WG540034	
2-Fluorobiphenyl				53.94	33-114				WG540034	
Nitrobenzene-d5				71.42	21-120				WG540034	
p-Terphenyl-d14				55.27	18-142				WG540034	
Chromium,Hexavalent	mg/kg	0	0	0*	50-150	0	20	L520219-01	WG540021	

Batch number /Run number / Sample number cross reference

WG539594: R1718572: L519796-02 03 04 05 06
 WG539593: R1719159: L519796-01
 WG539566: R1719309: L519796-01
 WG539585: R1719396: L519796-01
 WG539462: R1719949: L519796-01
 WG539531: R1720792: L519796-01
 WG539889: R1720869: L519796-01
 WG540034: R1721270: L519796-01
 WG540012: R1722889: L519796-01
 WG540230: R1724289: L519796-01
 WG540021: R1724574: L519796-01

* * 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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Parachute, CO 81635

Quality Assurance Report
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Est. 1970

June 16, 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.



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

Report Summary

Friday June 17, 2011

Report Number: L519788

Samples Received: 06/08/11

Client Project:

Description: G09

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,
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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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REPORT OF ANALYSIS

June 17, 2011

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

ESC Sample # : L519788-01

Date Received : June 08, 2011
 Description : G09

Site ID : G09

Sample ID : G09-PITE1-060711

Project # :

Collected By : Brannen Graff
 Collection Date : 06/07/11 13:31

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.8		su	9045D	06/11/11	1
Sodium Adsorption Ratio	12.			Calc.	06/13/11	1
Specific Conductance	470		umhos/cm	9050AMod	06/14/11	1
Mercury	0.021	0.020	mg/kg	7471	06/10/11	1
Arsenic	7.6	1.0	mg/kg	6010B	06/10/11	1
Barium	970	0.25	mg/kg	6010B	06/10/11	1
Cadmium	BDL	0.25	mg/kg	6010B	06/10/11	1
Chromium	33.	0.50	mg/kg	6010B	06/10/11	1
Copper	18.	1.0	mg/kg	6010B	06/10/11	1
Lead	12.	0.25	mg/kg	6010B	06/10/11	1
Nickel	26.	1.0	mg/kg	6010B	06/10/11	1
Selenium	BDL	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	50.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	1.6	0.50	mg/kg	8015D/GRO	06/09/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	101.		% Rec.	602/8015	06/09/11	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	06/09/11	5
Benzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	06/09/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloroform	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	06/09/11	5
Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L519788-01 (PH) - 8.8@21.3C



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Est. 1970

REPORT OF ANALYSIS

June 17, 2011

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

ESC Sample # : L519788-01

Date Received : June 08, 2011
Description : G09

Site ID : G09

Sample ID : G09-PITE1-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 13:31

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	06/09/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	06/09/11	5
Methyl Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	06/09/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	06/09/11	5
Styrene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Toluene	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	06/09/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
o-Xylene	BDL	0.0050	mg/kg	8260B	06/09/11	5
m&p-Xylene	BDL	0.010	mg/kg	8260B	06/09/11	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	06/09/11	5
Surrogate Recovery						
Toluene-d8	97.6		% Rec.	8260B	06/09/11	5
Dibromofluoromethane	101.		% Rec.	8260B	06/09/11	5
a,a,a-Trifluorotoluene	98.1		% Rec.	8260B	06/09/11	5
4-Bromofluorobenzene	93.7		% Rec.	8260B	06/09/11	5
TPH (GC/FID) High Fraction	110	4.0	mg/kg	3546/DRO	06/12/11	1
Surrogate recovery(%)						
o-Terphenyl	52.7		% Rec.	3546/DRO	06/12/11	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: 06/17/11 14:17 Printed: 06/17/11 14:31
L519788-01 (PH) - 8.8@21.3C



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Est. 1970

REPORT OF ANALYSIS

June 17, 2011

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

ESC Sample # : L519788-02

Date Received : June 08, 2011
 Description : G09

Site ID : G09

Sample ID : G09-PITE2-060711

Project # :

Collected By : Brannen Graff
 Collection Date : 06/07/11 13:36

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	7.9		su	9045D	06/11/11	1
Sodium Adsorption Ratio	7.3			Calc.	06/13/11	1
Specific Conductance	630		umhos/cm	9050AMod	06/14/11	1
Mercury	0.12	0.020	mg/kg	7471	06/10/11	1
Arsenic	8.0	1.0	mg/kg	6010B	06/10/11	1
Barium	2500	0.25	mg/kg	6010B	06/10/11	1
Cadmium	BDL	0.25	mg/kg	6010B	06/10/11	1
Chromium	26.	0.50	mg/kg	6010B	06/10/11	1
Copper	28.	1.0	mg/kg	6010B	06/10/11	1
Lead	15.	0.25	mg/kg	6010B	06/10/11	1
Nickel	12.	1.0	mg/kg	6010B	06/10/11	1
Selenium	BDL	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	46.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	06/09/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	101.		% Rec.	602/8015	06/09/11	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	06/09/11	5
Benzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	06/09/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloroform	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	06/09/11	5
Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L519788-02 (PH) - 7.9@21.2C
 L519788-02 (SV8270PAHSIM) - Diluted due to matrix



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Est. 1970

REPORT OF ANALYSIS

June 17, 2011

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

ESC Sample # : L519788-02

Date Received : June 08, 2011
 Description : G09

Site ID : G09

Sample ID : G09-PITE2-060711

Project # :

Collected By : Brannen Graff
 Collection Date : 06/07/11 13:36

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	06/09/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	06/09/11	5
Methyl Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	06/09/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	06/09/11	5
Styrene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Toluene	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	06/09/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
o-Xylene	BDL	0.0050	mg/kg	8260B	06/09/11	5
m&p-Xylene	BDL	0.010	mg/kg	8260B	06/09/11	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	06/09/11	5
Surrogate Recovery						
Toluene-d8	91.1		% Rec.	8260B	06/09/11	5
Dibromofluoromethane	106.		% Rec.	8260B	06/09/11	5
a,a,a-Trifluorotoluene	89.8		% Rec.	8260B	06/09/11	5
4-Bromofluorobenzene	88.2		% Rec.	8260B	06/09/11	5
TPH (GC/FID) High Fraction	3000	80.	mg/kg	3546/DRO	06/12/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	06/12/11	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 06/17/11 14:17 Printed: 06/17/11 14:31

L519788-02 (PH) - 7.9@21.2C

L519788-02 (SV8270PAHSIM) - Diluted due to matrix



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REPORT OF ANALYSIS

June 17, 2011

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

ESC Sample # : L519788-03

Date Received : June 08, 2011
 Description : G09

Site ID : G09

Sample ID : G09-PITE3-060711

Project # :

Collected By : Brannen Graff
 Collection Date : 06/07/11 13:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.6		su	9045D	06/11/11	1
Sodium Adsorption Ratio	13.			Calc.	06/13/11	1
Specific Conductance	540		umhos/cm	9050AMod	06/14/11	1
Mercury	0.024	0.020	mg/kg	7471	06/10/11	1
Arsenic	12.	1.0	mg/kg	6010B	06/10/11	1
Barium	1500	0.25	mg/kg	6010B	06/10/11	1
Cadmium	BDL	0.25	mg/kg	6010B	06/10/11	1
Chromium	31.	0.50	mg/kg	6010B	06/10/11	1
Copper	24.	1.0	mg/kg	6010B	06/10/11	1
Lead	15.	0.25	mg/kg	6010B	06/10/11	1
Nickel	16.	1.0	mg/kg	6010B	06/10/11	1
Selenium	BDL	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	55.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	0.68	0.50	mg/kg	8015D/GRO	06/09/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	101.		% Rec.	602/8015	06/09/11	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	06/09/11	5
Benzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	06/09/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloroform	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	06/09/11	5
Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L519788-03 (PH) - 8.6@21.0C



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REPORT OF ANALYSIS

June 17, 2011

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

ESC Sample # : L519788-03

Date Received : June 08, 2011
Description : G09

Site ID : G09

Sample ID : G09-PITE3-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 13:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	06/09/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	06/09/11	5
Methyl Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	06/09/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	06/09/11	5
Styrene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Toluene	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	06/09/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
o-Xylene	BDL	0.0050	mg/kg	8260B	06/09/11	5
m&p-Xylene	BDL	0.010	mg/kg	8260B	06/09/11	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	06/09/11	5
Surrogate Recovery						
Toluene-d8	95.9		% Rec.	8260B	06/09/11	5
Dibromofluoromethane	101.		% Rec.	8260B	06/09/11	5
a,a,a-Trifluorotoluene	97.6		% Rec.	8260B	06/09/11	5
4-Bromofluorobenzene	92.4		% Rec.	8260B	06/09/11	5
TPH (GC/FID) High Fraction	110	4.0	mg/kg	3546/DRO	06/15/11	1
Surrogate recovery(%)						
o-Terphenyl	78.2		% Rec.	3546/DRO	06/15/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L519788-03 (PH) - 8.6@21.0C



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REPORT OF ANALYSIS

June 17, 2011

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

ESC Sample # : L519788-04

Date Received : June 08, 2011
 Description : G09

Site ID : G09

Sample ID : G09-PITE4-060711

Project # :

Collected By : Brannen Graff
 Collection Date : 06/07/11 13:43

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.6		su	9045D	06/11/11	1
Sodium Adsorption Ratio	5.7			Calc.	06/13/11	1
Specific Conductance	830		umhos/cm	9050AMod	06/14/11	1
Mercury	0.049	0.020	mg/kg	7471	06/10/11	1
Arsenic	12.	1.0	mg/kg	6010B	06/10/11	1
Barium	630	0.25	mg/kg	6010B	06/10/11	1
Cadmium	BDL	0.25	mg/kg	6010B	06/10/11	1
Chromium	32.	0.50	mg/kg	6010B	06/10/11	1
Copper	22.	1.0	mg/kg	6010B	06/10/11	1
Lead	13.	0.25	mg/kg	6010B	06/10/11	1
Nickel	19.	1.0	mg/kg	6010B	06/10/11	1
Selenium	BDL	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	59.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	5.2	0.50	mg/kg	8015D/GRO	06/09/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	101.		% Rec.	602/8015	06/09/11	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	06/09/11	5
Benzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	06/09/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloroform	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	06/09/11	5
Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L519788-04 (PH) - 8.6@21.1C



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REPORT OF ANALYSIS

June 17, 2011

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

ESC Sample # : L519788-04

Date Received : June 08, 2011
Description : G09

Site ID : G09

Sample ID : G09-PITE4-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 13:43

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	06/09/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	06/09/11	5
Methyl Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	06/09/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	06/09/11	5
Styrene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Toluene	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	06/09/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
o-Xylene	BDL	0.0050	mg/kg	8260B	06/09/11	5
m&p-Xylene	BDL	0.010	mg/kg	8260B	06/09/11	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	06/09/11	5
Surrogate Recovery						
Toluene-d8	90.4		% Rec.	8260B	06/09/11	5
Dibromofluoromethane	109.		% Rec.	8260B	06/09/11	5
a,a,a-Trifluorotoluene	90.1		% Rec.	8260B	06/09/11	5
4-Bromofluorobenzene	96.0		% Rec.	8260B	06/09/11	5
TPH (GC/FID) High Fraction	1400	80.	mg/kg	3546/DRO	06/12/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	06/12/11	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L519788-04 (PH) - 8.6@21.1C



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REPORT OF ANALYSIS

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

June 17, 2011

Date Received : June 08, 2011
 Description : G09
 Sample ID : G09-PITE5-060711
 Collected By : Brannen Graff
 Collection Date : 06/07/11 13:47

ESC Sample # : L519788-05
 Site ID : G09
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/15/11	1
Chromium,Trivalent	30.	2.0	mg/kg	Calc.	06/10/11	1
ORP	99.		mV	2580	06/09/11	1
pH	8.8		su	9045D	06/11/11	1
Sodium Adsorption Ratio	25.			Calc.	06/13/11	1
Specific Conductance	1200		umhos/cm	9050AMod	06/14/11	1
Mercury	0.040	0.020	mg/kg	7471	06/10/11	1
Arsenic	9.3	1.0	mg/kg	6010B	06/10/11	1
Barium	630	0.25	mg/kg	6010B	06/10/11	1
Cadmium	BDL	0.25	mg/kg	6010B	06/10/11	1
Chromium	30.	0.50	mg/kg	6010B	06/10/11	1
Copper	26.	1.0	mg/kg	6010B	06/10/11	1
Lead	13.	0.25	mg/kg	6010B	06/10/11	1
Nickel	23.	1.0	mg/kg	6010B	06/10/11	1
Selenium	BDL	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	65.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	06/09/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	103.		% Rec.	602/8015	06/09/11	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	06/09/11	5
Benzene	0.0064	0.0050	mg/kg	8260B	06/09/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	06/09/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloroform	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	06/09/11	5
Cyclohexane	0.0077	0.0050	mg/kg	8260B	06/09/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L519788-05 (PH) - 8.8@20.9C



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

June 17, 2011

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

ESC Sample # : L519788-05

Date Received : June 08, 2011
Description : G09

Site ID : G09

Sample ID : G09-PITE5-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 13:47

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	06/09/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	06/09/11	5
Methyl Cyclohexane	0.021	0.0050	mg/kg	8260B	06/09/11	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	06/09/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	06/09/11	5
Styrene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Toluene	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	06/09/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
o-Xylene	BDL	0.0050	mg/kg	8260B	06/09/11	5
m&p-Xylene	0.012	0.010	mg/kg	8260B	06/09/11	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	06/09/11	5
Surrogate Recovery						
Toluene-d8	94.4		% Rec.	8260B	06/09/11	5
Dibromofluoromethane	101.		% Rec.	8260B	06/09/11	5
a,a,a-Trifluorotoluene	95.1		% Rec.	8260B	06/09/11	5
4-Bromofluorobenzene	90.1		% Rec.	8260B	06/09/11	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
L519788-05 (PH) - 8.8@20.9C



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REPORT OF ANALYSIS

June 17, 2011

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

Date Received : June 08, 2011
Description : G09
Sample ID : G09-PITE5-060711
Collected By : Brannen Graff
Collection Date : 06/07/11 13:47

ESC Sample # : L519788-05
Site ID : G09
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	31.	4.0	mg/kg	3546/DRO	06/15/11	1
Surrogate recovery(%) o-Terphenyl	64.2		% Rec.	3546/DRO	06/15/11	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 06/17/11 14:17 Printed: 06/17/11 14:31
L519788-05 (PH) - 8.8@20.9C

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L519788-01	WG539511	SAMP	Styrene	R1717552	J4
L519788-02	WG539511	SAMP	Styrene	R1717552	J4
	WG539694	SAMP	o-Terphenyl	R1719950	J7
L519788-03	WG539511	SAMP	Styrene	R1717552	J4
L519788-04	WG539511	SAMP	Styrene	R1717552	J4
	WG539694	SAMP	o-Terphenyl	R1719950	J7
L519788-05	WG539511	SAMP	Styrene	R1717552	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
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

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
06/17/11 at 14:31:27

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L519788-01 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/16/11 00:00 RPT Date: 06/17/11 14:17
Deleted CR6SS, CR3, and SV8270PAHSIM per AH. AV 6/16
Sample: L519788-02 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/16/11 00:00 RPT Date: 06/17/11 14:17
Deleted CR6SS, CR3, and SV8270PAHSIM per AH. AV 6/16
Sample: L519788-03 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/16/11 00:00 RPT Date: 06/17/11 14:17
Deleted CR6SS, CR3, and SV8270PAHSIM per AH. AV 6/16
Sample: L519788-04 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/16/11 00:00 RPT Date: 06/17/11 14:17
Deleted CR6SS, CR3, and SV8270PAHSIM per AH. AV 6/16
Sample: L519788-05 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/16/11 00:00 RPT Date: 06/17/11 14:17
Deleted PAHSIM 6/17/11 TAH \$37.5 MISC for extraction of PAHSIM. 6/17/11 TAH



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Est. 1970

June 17, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
1,1,1-Trichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1,2-Trichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1-Dichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1-Dichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2,3-Trichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2,4-Trichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG539511	06/09/11 02:44
1,2-Dibromoethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dichloropropane	< .001	mg/kg			WG539511	06/09/11 02:44
1,3-Dichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,4-Dichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
2-Butanone (MEK)	< .01	mg/kg			WG539511	06/09/11 02:44
2-Hexanone	< .01	mg/kg			WG539511	06/09/11 02:44
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG539511	06/09/11 02:44
Acetone	< .05	mg/kg			WG539511	06/09/11 02:44
Benzene	< .001	mg/kg			WG539511	06/09/11 02:44
Bromochloromethane	< .001	mg/kg			WG539511	06/09/11 02:44
Bromodichloromethane	< .001	mg/kg			WG539511	06/09/11 02:44
Bromoform	< .001	mg/kg			WG539511	06/09/11 02:44
Bromomethane	< .005	mg/kg			WG539511	06/09/11 02:44
Carbon disulfide	< .001	mg/kg			WG539511	06/09/11 02:44
Carbon tetrachloride	< .001	mg/kg			WG539511	06/09/11 02:44
Chlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
Chlorodibromomethane	< .001	mg/kg			WG539511	06/09/11 02:44
Chloroethane	< .005	mg/kg			WG539511	06/09/11 02:44
Chloroform	< .005	mg/kg			WG539511	06/09/11 02:44
Chloromethane	< .0025	mg/kg			WG539511	06/09/11 02:44
cis-1,2-Dichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
cis-1,3-Dichloropropene	< .001	mg/kg			WG539511	06/09/11 02:44
Cyclohexane	< .001	mg/kg			WG539511	06/09/11 02:44
Dichlorodifluoromethane	< .005	mg/kg			WG539511	06/09/11 02:44
Ethylbenzene	< .001	mg/kg			WG539511	06/09/11 02:44
Isopropylbenzene	< .001	mg/kg			WG539511	06/09/11 02:44
m&p-Xylene	< .002	mg/kg			WG539511	06/09/11 02:44
Methyl Acetate	< .02	mg/kg			WG539511	06/09/11 02:44
Methyl Cyclohexane	< .001	mg/kg			WG539511	06/09/11 02:44
Methyl tert-butyl ether	< .001	mg/kg			WG539511	06/09/11 02:44
Methylene Chloride	< .005	mg/kg			WG539511	06/09/11 02:44
n-Hexane	< .01	mg/kg			WG539511	06/09/11 02:44
o-Xylene	< .001	mg/kg			WG539511	06/09/11 02:44
Styrene	< .001	mg/kg			WG539511	06/09/11 02:44
Tetrachloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
Toluene	< .005	mg/kg			WG539511	06/09/11 02:44
trans-1,2-Dichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
trans-1,3-Dichloropropene	< .001	mg/kg			WG539511	06/09/11 02:44
Trichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
Trichlorofluoromethane	< .005	mg/kg			WG539511	06/09/11 02:44
Vinyl chloride	< .001	mg/kg			WG539511	06/09/11 02:44
Xylenes, Total	< .003	mg/kg			WG539511	06/09/11 02:44
4-Bromofluorobenzene		% Rec.	100.1	59-140	WG539511	06/09/11 02:44
Dibromofluoromethane		% Rec.	100.7	63-139	WG539511	06/09/11 02:44
Toluene-d8		% Rec.	99.02	84-116	WG539511	06/09/11 02:44
a,a,a-Trifluorotoluene		% Rec.	100.1	80-118	WG539511	06/09/11 02:44

* 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

June 17, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG539698	06/09/11 16:43
a,a,a-Trifluorotoluene(FID)		% Rec.	95.12	59-128	WG539698	06/09/11 16:43
Arsenic	< 1	mg/kg			WG539593	06/10/11 11:07
Barium	< .25	mg/kg			WG539593	06/10/11 11:07
Cadmium	< .25	mg/kg			WG539593	06/10/11 11:07
Chromium	< .5	mg/kg			WG539593	06/10/11 11:07
Copper	< 1	mg/kg			WG539593	06/10/11 11:07
Lead	< .25	mg/kg			WG539593	06/10/11 11:07
Nickel	< 1	mg/kg			WG539593	06/10/11 11:07
Selenium	< 1	mg/kg			WG539593	06/10/11 11:07
Zinc	< 1.5	mg/kg			WG539593	06/10/11 11:07
Silver	< .5	mg/kg			WG539593	06/10/11 13:26
Mercury	< .02	mg/kg			WG539585	06/10/11 03:57
1-Methylnaphthalene	< .006	mg/kg			WG539568	06/10/11 11:38
2-Chloronaphthalene	< .006	mg/kg			WG539568	06/10/11 11:38
2-Methylnaphthalene	< .006	mg/kg			WG539568	06/10/11 11:38
Acenaphthene	< .006	mg/kg			WG539568	06/10/11 11:38
Acenaphthylene	< .006	mg/kg			WG539568	06/10/11 11:38
Anthracene	< .006	mg/kg			WG539568	06/10/11 11:38
Benzo(a)anthracene	< .006	mg/kg			WG539568	06/10/11 11:38
Benzo(a)pyrene	< .006	mg/kg			WG539568	06/10/11 11:38
Benzo(b)fluoranthene	< .006	mg/kg			WG539568	06/10/11 11:38
Benzo(g,h,i)perylene	< .006	mg/kg			WG539568	06/10/11 11:38
Benzo(k)fluoranthene	< .006	mg/kg			WG539568	06/10/11 11:38
Chrysene	< .006	mg/kg			WG539568	06/10/11 11:38
Dibenz(a,h)anthracene	< .006	mg/kg			WG539568	06/10/11 11:38
Fluoranthene	< .006	mg/kg			WG539568	06/10/11 11:38
Fluorene	< .006	mg/kg			WG539568	06/10/11 11:38
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG539568	06/10/11 11:38
Naphthalene	< .006	mg/kg			WG539568	06/10/11 11:38
Phenanthrene	< .006	mg/kg			WG539568	06/10/11 11:38
Pyrene	< .006	mg/kg			WG539568	06/10/11 11:38
2-Fluorobiphenyl		% Rec.	63.39	21-120	WG539568	06/10/11 11:38
Nitrobenzene-d5		% Rec.	56.39	33-114	WG539568	06/10/11 11:38
p-Terphenyl-d14		% Rec.	72.40	18-142	WG539568	06/10/11 11:38
TPH (GC/FID) High Fraction	< 4	ppm			WG539694	06/11/11 10:54
o-Terphenyl		% Rec.	71.47	50-150	WG539694	06/11/11 10:54
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG539531	06/09/11 14:24
a,a,a-Trifluorotoluene(FID)		% Rec.	101.6	59-128	WG539531	06/09/11 14:24
pH	4.00	su			WG539889	06/11/11 14:14
Specific Conductance	0.860	umhos/cm			WG540012	06/14/11 15:04
TPH (GC/FID) High Fraction	< 4	ppm			WG540045	06/15/11 01:55
o-Terphenyl		% Rec.	70.71	50-150	WG540045	06/15/11 01:55

* 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

June 17, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Chromium,Hexavalent	< 2	mg/kg			WG540021	06/15/11 15:00

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
ORP	mV	69.0	66.0	4.44	20	L519614-03	WG539516
ORP	mV	120.	110.	7.02	20	L519788-04	WG539516
Arsenic	mg/kg	3.40	3.40	0.590	20	L519761-01	WG539593
Barium	mg/kg	110.	108.	1.87	20	L519761-01	WG539593
Cadmium	mg/kg	0	0	0	20	L519761-01	WG539593
Chromium	mg/kg	15.0	17.0	12.5	20	L519761-01	WG539593
Copper	mg/kg	16.0	16.0	2.53	20	L519761-01	WG539593
Lead	mg/kg	13.0	16.0	19.2	20	L519761-01	WG539593
Nickel	mg/kg	14.0	12.0	17.5	20	L519761-01	WG539593
Selenium	mg/kg	1.10	0	NA	20	L519761-01	WG539593
Silver	mg/kg	0	0.129	NA	20	L519761-01	WG539593
Zinc	mg/kg	49.0	48.0	1.65	20	L519761-01	WG539593
Mercury	mg/kg	0.0170	0.0160	6.06	20	L519815-01	WG539585
pH	su	8.40	8.40	0	1	L519784-01	WG539889
pH	su	6.00	6.00	0	1	L520058-04	WG539889
Specific Conductance	umhos/cm	570.	540.	5.93	20	L519788-03	WG540012
Specific Conductance	umhos/cm	4.30	4.30	0.232	20	L520080-03	WG540012
Chromium,Hexavalent	mg/kg	0	0	0	20	L519784-01	WG540021
Chromium,Hexavalent	mg/kg	0	0	0	20	L520405-01	WG540021

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
ORP	mV	229	230.	100.	95.6-104.37	WG539516
1,1,1-Trichloroethane	mg/kg	.025	0.0279	112.	62-135	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0246	98.6	74-129	WG539511
1,1,2-Trichloroethane	mg/kg	.025	0.0252	101.	77-124	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.025	0.0337	135.	49-155	WG539511
1,1-Dichloroethane	mg/kg	.025	0.0287	115.	61-134	WG539511
1,1-Dichloroethene	mg/kg	.025	0.0322	129.	53-136	WG539511
1,2,3-Trichlorobenzene	mg/kg	.025	0.0255	102.	62-146	WG539511
1,2,4-Trichlorobenzene	mg/kg	.025	0.0264	106.	61-148	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0272	109.	61-134	WG539511
1,2-Dibromoethane	mg/kg	.025	0.0258	103.	76-127	WG539511
1,2-Dichlorobenzene	mg/kg	.025	0.0256	102.	77-123	WG539511
1,2-Dichloroethane	mg/kg	.025	0.0270	108.	58-141	WG539511
1,2-Dichloropropane	mg/kg	.025	0.0259	103.	71-128	WG539511
1,3-Dichlorobenzene	mg/kg	.025	0.0248	99.1	71-132	WG539511
1,4-Dichlorobenzene	mg/kg	.025	0.0259	104.	72-123	WG539511
2-Butanone (MEK)	mg/kg	.125	0.141	113.	51-131	WG539511
2-Hexanone	mg/kg	.125	0.137	110.	62-145	WG539511
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.143	114.	61-143	WG539511

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 Chris Hines
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Quality Assurance Report
 Level II

L519788

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

June 17, 2011

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Acetone	mg/kg	.125	0.146	117.	44-140	WG539511
Benzene	mg/kg	.025	0.0278	111.	65-128	WG539511
Bromochloromethane	mg/kg	.025	0.0284	114.	73-130	WG539511
Bromodichloromethane	mg/kg	.025	0.0257	103.	66-126	WG539511
Bromoform	mg/kg	.025	0.0217	86.6	64-139	WG539511
Bromomethane	mg/kg	.025	0.0292	117.	41-175	WG539511
Carbon disulfide	mg/kg	.025	0.0341	136.	36-161	WG539511
Carbon tetrachloride	mg/kg	.025	0.0289	116.	60-140	WG539511
Chlorobenzene	mg/kg	.025	0.0247	99.0	75-125	WG539511
Chlorodibromomethane	mg/kg	.025	0.0257	103.	72-137	WG539511
Chloroethane	mg/kg	.025	0.0269	108.	44-159	WG539511
Chloroform	mg/kg	.025	0.0280	112.	63-123	WG539511
Chloromethane	mg/kg	.025	0.0261	104.	42-149	WG539511
cis-1,2-Dichloroethene	mg/kg	.025	0.0278	111.	71-129	WG539511
cis-1,3-Dichloropropene	mg/kg	.025	0.0268	107.	73-132	WG539511
Dichlorodifluoromethane	mg/kg	.025	0.0286	115.	26-186	WG539511
Ethylbenzene	mg/kg	.025	0.0249	99.8	74-128	WG539511
Isopropylbenzene	mg/kg	.025	0.0276	110.	73-130	WG539511
m&p-Xylene	mg/kg	.05	0.0504	101.	73-127	WG539511
Methyl tert-butyl ether	mg/kg	.025	0.0303	121.	44-148	WG539511
Methylene Chloride	mg/kg	.025	0.0293	117.	57-129	WG539511
n-Hexane	mg/kg	.025	0.0256	103.	28-169	WG539511
o-Xylene	mg/kg	.025	0.0250	99.8	75-129	WG539511
Styrene	mg/kg	.025	0.0190	75.9*	76-133	WG539511
Tetrachloroethene	mg/kg	.025	0.0248	99.3	65-135	WG539511
Toluene	mg/kg	.025	0.0254	102.	70-120	WG539511
trans-1,2-Dichloroethene	mg/kg	.025	0.0289	116.	61-133	WG539511
trans-1,3-Dichloropropene	mg/kg	.025	0.0262	105.	70-135	WG539511
Trichloroethene	mg/kg	.025	0.0260	104.	71-126	WG539511
Trichlorofluoromethane	mg/kg	.025	0.0285	114.	52-147	WG539511
Vinyl chloride	mg/kg	.025	0.0273	109.	50-151	WG539511
Xylenes, Total	mg/kg	.075	0.0753	100.	74-127	WG539511
4-Bromofluorobenzene				92.91	59-140	WG539511
Dibromofluoromethane				109.8	63-139	WG539511
Toluene-d8				98.29	84-116	WG539511
a,a,a-Trifluorotoluene				100.1	80-118	WG539511
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.97	127.	67-135	WG539698
a,a,a-Trifluorotoluene(FID)				99.44	59-128	WG539698
Arsenic	mg/kg	192	164.	85.4	78.6-120.8	WG539593
Barium	mg/kg	420	382.	91.0	78.8-121.4	WG539593
Cadmium	mg/kg	70.1	60.8	86.7	78.5-121.5	WG539593
Chromium	mg/kg	168	155.	92.3	80.4-120.2	WG539593
Copper	mg/kg	122	115.	94.3	81.6-119.7	WG539593
Lead	mg/kg	113	98.2	86.9	77.3-122.1	WG539593
Nickel	mg/kg	74.1	63.6	85.8	78.8-121.2	WG539593
Selenium	mg/kg	176	158.	89.8	75.6-125.0	WG539593
Silver	mg/kg	115	106.	92.2	66-133.9	WG539593
Zinc	mg/kg	437	384.	87.9	78.5-121.7	WG539593
Mercury	mg/kg	8.77	8.60	98.1	71.6-127.7	WG539585
1-Methylnaphthalene	mg/kg	.033	0.0209	63.3	41-110	WG539568
2-Chloronaphthalene	mg/kg	.033	0.0210	63.6	43-109	WG539568

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
2-Methylnaphthalene	mg/kg	.033	0.0204	61.8	38-104	WG539568
Acenaphthene	mg/kg	.033	0.0221	66.9	48-103	WG539568
Acenaphthylene	mg/kg	.033	0.0225	68.1	43-106	WG539568
Anthracene	mg/kg	.033	0.0233	70.6	51-110	WG539568
Benzo(a)anthracene	mg/kg	.033	0.0249	75.4	38-126	WG539568
Benzo(a)pyrene	mg/kg	.033	0.0229	69.4	47-118	WG539568
Benzo(b)fluoranthene	mg/kg	.033	0.0274	83.1	47-118	WG539568
Benzo(g,h,i)perylene	mg/kg	.033	0.0277	84.0	40-125	WG539568
Benzo(k)fluoranthene	mg/kg	.033	0.0223	67.6	45-121	WG539568
Chrysene	mg/kg	.033	0.0225	68.3	35-135	WG539568
Dibenz(a,h)anthracene	mg/kg	.033	0.0263	79.8	41-124	WG539568
Fluoranthene	mg/kg	.033	0.0238	72.1	50-114	WG539568
Fluorene	mg/kg	.033	0.0234	70.8	49-109	WG539568
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0264	80.0	40-126	WG539568
Naphthalene	mg/kg	.033	0.0212	64.3	36-100	WG539568
Phenanthrene	mg/kg	.033	0.0238	72.1	46-108	WG539568
Pyrene	mg/kg	.033	0.0226	68.3	30-136	WG539568
2-Fluorobiphenyl				63.13	33-114	WG539568
Nitrobenzene-d5				58.34	21-120	WG539568
p-Terphenyl-d14				65.45	18-142	WG539568
TPH (GC/FID) High Fraction	ppm	60	50.7	84.5	50-150	WG539694
o-Terphenyl				69.54	50-150	WG539694
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.24	114.	67-135	WG539531
a,a,a-Trifluorotoluene(FID)				107.1	59-128	WG539531
pH	su	6.3	6.30	100.	97.98-102.02	WG539889
Specific Conductance	umhos/cm	442	440.	99.5	85-115	WG540012
TPH (GC/FID) High Fraction	ppm	60	47.9	79.8	50-150	WG540045
o-Terphenyl				73.61	50-150	WG540045
Chromium,Hexavalent	mg/kg	132	100.	75.8	50-150	WG540021

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
ORP	mV	220.	230.	96.0	95.6-104.37	4.44	20	WG539516
1,1,1-Trichloroethane	mg/kg	0.0258	0.0279	103.	62-135	7.82	20	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	0.0225	0.0246	90.0	74-129	9.22	20	WG539511
1,1,2-Trichloroethane	mg/kg	0.0231	0.0252	92.0	77-124	8.74	20	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0306	0.0337	122.	49-155	9.59	20	WG539511
1,1-Dichloroethane	mg/kg	0.0260	0.0287	104.	61-134	9.93	20	WG539511
1,1-Dichloroethene	mg/kg	0.0291	0.0322	116.	53-136	9.89	20	WG539511
1,2,3-Trichlorobenzene	mg/kg	0.0223	0.0255	89.0	62-146	13.5	20	WG539511
1,2,4-Trichlorobenzene	mg/kg	0.0232	0.0264	93.0	61-148	12.8	20	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	0.0221	0.0272	88.0	61-134	20.9	21	WG539511
1,2-Dibromoethane	mg/kg	0.0233	0.0258	93.0	76-127	9.96	20	WG539511
1,2-Dichlorobenzene	mg/kg	0.0227	0.0256	91.0	77-123	11.9	20	WG539511

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Analyte	Units	Laboratory Control		Sample Duplicate	Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
1,2-Dichloroethane	mg/kg	0.0243	0.0270	97.0	58-141	10.6	20	WG539511
1,2-Dichloropropane	mg/kg	0.0229	0.0259	91.0	71-128	12.4	20	WG539511
1,3-Dichlorobenzene	mg/kg	0.0234	0.0248	94.0	71-132	5.62	20	WG539511
1,4-Dichlorobenzene	mg/kg	0.0233	0.0259	93.0	72-123	10.8	20	WG539511
2-Butanone (MEK)	mg/kg	0.119	0.141	96.0	51-131	16.4	25	WG539511
2-Hexanone	mg/kg	0.122	0.137	98.0	62-145	11.7	23	WG539511
4-Methyl-2-pentanone (MIBK)	mg/kg	0.120	0.143	96.0	61-143	16.8	23	WG539511
Acetone	mg/kg	0.123	0.146	99.0	44-140	16.7	25	WG539511
Benzene	mg/kg	0.0252	0.0278	101.	65-128	9.53	20	WG539511
Bromochloromethane	mg/kg	0.0253	0.0284	101.	73-130	11.8	20	WG539511
Bromodichloromethane	mg/kg	0.0227	0.0257	91.0	66-126	12.3	20	WG539511
Bromoform	mg/kg	0.0200	0.0217	80.0	64-139	7.92	20	WG539511
Bromomethane	mg/kg	0.0276	0.0292	110.	41-175	5.53	20	WG539511
Carbon disulfide	mg/kg	0.0319	0.0341	128.	36-161	6.67	20	WG539511
Carbon tetrachloride	mg/kg	0.0262	0.0289	105.	60-140	9.65	20	WG539511
Chlorobenzene	mg/kg	0.0229	0.0247	92.0	75-125	7.77	20	WG539511
Chlorodibromomethane	mg/kg	0.0232	0.0257	93.0	72-137	10.3	20	WG539511
Chloroethane	mg/kg	0.0253	0.0269	101.	44-159	5.89	20	WG539511
Chloroform	mg/kg	0.0253	0.0280	101.	63-123	10.1	20	WG539511
Chloromethane	mg/kg	0.0240	0.0261	96.0	42-149	8.65	20	WG539511
cis-1,2-Dichloroethene	mg/kg	0.0252	0.0278	101.	71-129	9.52	20	WG539511
cis-1,3-Dichloropropene	mg/kg	0.0238	0.0268	95.0	73-132	11.9	20	WG539511
Dichlorodifluoromethane	mg/kg	0.0257	0.0286	103.	26-186	10.7	22	WG539511
Ethylbenzene	mg/kg	0.0234	0.0249	94.0	74-128	6.19	20	WG539511
Isopropylbenzene	mg/kg	0.0260	0.0276	104.	73-130	5.67	20	WG539511
m&p-Xylene	mg/kg	0.0473	0.0504	94.0	73-127	6.37	20	WG539511
Methyl tert-butyl ether	mg/kg	0.0271	0.0303	108.	44-148	11.3	20	WG539511
Methylene Chloride	mg/kg	0.0260	0.0293	104.	57-129	11.7	20	WG539511
n-Hexane	mg/kg	0.0232	0.0256	93.0	28-169	10.1	20	WG539511
o-Xylene	mg/kg	0.0233	0.0250	93.0	75-129	6.73	20	WG539511
Styrene	mg/kg	0.0175	0.0190	70*	76-133	7.90	20	WG539511
Tetrachloroethene	mg/kg	0.0229	0.0248	91.0	65-135	8.26	20	WG539511
Toluene	mg/kg	0.0226	0.0254	90.0	70-120	11.5	20	WG539511
trans-1,2-Dichloroethene	mg/kg	0.0260	0.0289	104.	61-133	10.5	20	WG539511
trans-1,3-Dichloropropene	mg/kg	0.0226	0.0262	90.0	70-135	15.0	20	WG539511
Trichloroethene	mg/kg	0.0233	0.0260	93.0	71-126	10.8	20	WG539511
Trichlorofluoromethane	mg/kg	0.0267	0.0285	107.	52-147	6.50	20	WG539511
Vinyl chloride	mg/kg	0.0252	0.0273	101.	50-151	8.28	20	WG539511
Xylenes, Total	mg/kg	0.0706	0.0753	94.0	74-127	6.49	20	WG539511
4-Bromofluorobenzene				99.51	59-140			WG539511
Dibromofluoromethane				104.4	63-139			WG539511
Toluene-d8				98.26	84-116			WG539511
a,a,a-Trifluorotoluene				98.97	80-118			WG539511
TPH (GC/FID) Low Fraction	mg/kg	6.04	6.97	110.	67-135	14.3	20	WG539698
a,a,a-Trifluorotoluene(FID)				93.60	59-128			WG539698
1-Methylnaphthalene	mg/kg	0.0240	0.0209	73.0	41-110	14.1	24	WG539568
2-Chloronaphthalene	mg/kg	0.0243	0.0210	74.0	43-109	14.4	21	WG539568
2-Methylnaphthalene	mg/kg	0.0231	0.0204	70.0	38-104	12.6	24	WG539568
Acenaphthene	mg/kg	0.0250	0.0221	76.0	48-103	12.3	20	WG539568
Acenaphthylene	mg/kg	0.0253	0.0225	77.0	43-106	11.9	20	WG539568
Anthracene	mg/kg	0.0264	0.0233	80.0	51-110	12.3	22	WG539568
Benzo(a)anthracene	mg/kg	0.0293	0.0249	89.0	38-126	16.4	20	WG539568
Benzo(a)pyrene	mg/kg	0.0266	0.0229	81.0	47-118	15.0	20	WG539568
Benzo(b)fluoranthene	mg/kg	0.0295	0.0274	89.0	47-118	7.19	29	WG539568
Benzo(g,h,i)perylene	mg/kg	0.0327	0.0277	99.0	40-125	16.5	20	WG539568

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Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
Benzo(k)fluoranthene	mg/kg	0.0279	0.0223	85.0		45-121	22.4	31	WG539568
Chrysene	mg/kg	0.0247	0.0225	75.0		35-135	9.27	20	WG539568
Dibenz(a,h)anthracene	mg/kg	0.0308	0.0263	93.0		41-124	15.7	20	WG539568
Fluoranthene	mg/kg	0.0277	0.0238	84.0		50-114	15.2	20	WG539568
Fluorene	mg/kg	0.0261	0.0234	79.0		49-109	11.1	19	WG539568
Indeno(1,2,3-cd)pyrene	mg/kg	0.0309	0.0264	94.0		40-126	15.6	20	WG539568
Naphthalene	mg/kg	0.0248	0.0212	75.0		36-100	15.6	24	WG539568
Phenanthrene	mg/kg	0.0282	0.0238	85.0		46-108	17.0	21	WG539568
Pyrene	mg/kg	0.0264	0.0226	80.0		30-136	15.6	20	WG539568
2-Fluorobiphenyl				71.57		33-114			WG539568
Nitrobenzene-d5				65.90		21-120			WG539568
p-Terphenyl-d14				73.75		18-142			WG539568
TPH (GC/FID) High Fraction	ppm	49.4	50.7	82.0		50-150	2.51	25	WG539694
o-Terphenyl				66.51		50-150			WG539694
TPH (GC/FID) Low Fraction	mg/kg	6.34	6.24	115.		67-135	1.52	20	WG539531
a,a,a-Trifluorotoluene(FID)				107.2		59-128			WG539531
pH	su	6.30	6.30	100.		97.98-102.02	0	20	WG539889
Specific Conductance	umhos/	440.	440.	100.		85-115	0	20	WG540012
TPH (GC/FID) High Fraction	ppm	47.4	47.9	79.0		50-150	0.917	20	WG540045
o-Terphenyl				73.94		50-150			WG540045
Chromium,Hexavalent	mg/kg	110.	100.	83.0		50-150	9.52	20	WG540021

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
1,1,1-Trichloroethane	mg/kg	0.147	0	.025	117.	23-147	L519783-02	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	0.108	0	.025	86.6	18-150	L519783-02	WG539511
1,1,2-Trichloroethane	mg/kg	0.120	0	.025	96.2	35-140	L519783-02	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.179	0	.025	143.	10-145	L519783-02	WG539511
1,1-Dichloroethane	mg/kg	0.142	0	.025	113.	24-148	L519783-02	WG539511
1,1-Dichloroethene	mg/kg	0.167	0	.025	133.	10-149	L519783-02	WG539511
1,2,3-Trichlorobenzene	mg/kg	0.0695	0	.025	55.6	10-129	L519783-02	WG539511
1,2,4-Trichlorobenzene	mg/kg	0.0789	0	.025	63.1	10-119	L519783-02	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	0.136	0	.025	109.	19-145	L519783-02	WG539511
1,2-Dibromoethane	mg/kg	0.119	0	.025	94.8	24-145	L519783-02	WG539511
1,2-Dichlorobenzene	mg/kg	0.113	0	.025	90.5	12-130	L519783-02	WG539511
1,2-Dichloroethane	mg/kg	0.127	0	.025	102.	21-155	L519783-02	WG539511
1,2-Dichloropropane	mg/kg	0.119	0	.025	95.0	28-144	L519783-02	WG539511
1,3-Dichlorobenzene	mg/kg	0.0957	0	.025	76.6	10-129	L519783-02	WG539511
1,4-Dichlorobenzene	mg/kg	0.118	0	.025	94.4	10-121	L519783-02	WG539511
2-Butanone (MEK)	mg/kg	0.697	0	.125	112.	21-143	L519783-02	WG539511
2-Hexanone	mg/kg	0.692	0	.125	111.	22-151	L519783-02	WG539511
4-Methyl-2-pentanone (MIBK)	mg/kg	0.688	0	.125	110.	31-151	L519783-02	WG539511
Acetone	mg/kg	0.749	0	.125	120.	13-158	L519783-02	WG539511
Benzene	mg/kg	0.135	0	.025	108.	16-143	L519783-02	WG539511
Bromochloromethane	mg/kg	0.131	0	.025	104.	25-152	L519783-02	WG539511
Bromodichloromethane	mg/kg	0.118	0	.025	94.5	27-139	L519783-02	WG539511

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YOUR LAB OF CHOICE

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 Chris Hines
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Quality Assurance Report
 Level II

L519788

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

June 17, 2011

Analyte	Units	MS Res	Matrix Spike			% Rec	Limit	Ref Samp	Batch
			Ref Res	TV					
Bromoform	mg/kg	0.0966	0	.025	77.3	21-144	L519783-02	WG539511	
Bromomethane	mg/kg	0.140	0	.025	112.	0-180	L519783-02	WG539511	
Carbon disulfide	mg/kg	0.153	0	.025	122.	10-156	L519783-02	WG539511	
Carbon tetrachloride	mg/kg	0.149	0	.025	119.	12-149	L519783-02	WG539511	
Chlorobenzene	mg/kg	0.113	0	.025	90.3	17-134	L519783-02	WG539511	
Chlorodibromomethane	mg/kg	0.118	0	.025	94.8	28-147	L519783-02	WG539511	
Chloroethane	mg/kg	0.138	0	.025	111.	0-172	L519783-02	WG539511	
Chloroform	mg/kg	0.138	0	.025	111.	28-138	L519783-02	WG539511	
Chloromethane	mg/kg	0.126	0	.025	100.	10-158	L519783-02	WG539511	
cis-1,2-Dichloroethene	mg/kg	0.133	0	.025	107.	21-147	L519783-02	WG539511	
cis-1,3-Dichloropropene	mg/kg	0.122	0	.025	97.4	17-145	L519783-02	WG539511	
Dichlorodifluoromethane	mg/kg	0.133	0	.025	106.	0-192	L519783-02	WG539511	
Ethylbenzene	mg/kg	0.118	0	.025	94.4	12-137	L519783-02	WG539511	
Isopropylbenzene	mg/kg	0.126	0	.025	100.	14-134	L519783-02	WG539511	
m&p-Xylene	mg/kg	0.234	0	.05	93.6	10-135	L519783-02	WG539511	
Methyl tert-butyl ether	mg/kg	0.146	0	.025	117.	21-157	L519783-02	WG539511	
Methylene Chloride	mg/kg	0.140	0	.025	112.	12-149	L519783-02	WG539511	
n-Hexane	mg/kg	0.0926	0	.025	74.1	10-129	L519783-02	WG539511	
o-Xylene	mg/kg	0.114	0	.025	91.0	14-140	L519783-02	WG539511	
Styrene	mg/kg	0.0819	0	.025	65.5	10-140	L519783-02	WG539511	
Tetrachloroethene	mg/kg	0.119	0	.025	95.2	10-131	L519783-02	WG539511	
Toluene	mg/kg	0.122	0	.025	97.6	12-136	L519783-02	WG539511	
trans-1,2-Dichloroethene	mg/kg	0.140	0	.025	112.	10-143	L519783-02	WG539511	
trans-1,3-Dichloropropene	mg/kg	0.116	0	.025	93.1	16-147	L519783-02	WG539511	
Trichloroethene	mg/kg	0.129	0	.025	103.	10-155	L519783-02	WG539511	
Trichlorofluoromethane	mg/kg	0.155	0	.025	124.	10-154	L519783-02	WG539511	
Vinyl chloride	mg/kg	0.140	0	.025	112.	10-159	L519783-02	WG539511	
Xylenes, Total	mg/kg	0.348	0	.075	92.8	10-138	L519783-02	WG539511	
4-Bromofluorobenzene					89.10	59-140		WG539511	
Dibromofluoromethane					109.7	63-139		WG539511	
Toluene-d8					97.03	84-116		WG539511	
a,a,a-Trifluorotoluene					96.67	80-118		WG539511	
TPH (GC/FID) Low Fraction	mg/kg	29.9	4.80	5.5	91.2	55-109	L519859-01	WG539698	
a,a,a-Trifluorotoluene(FID)					101.6	59-128		WG539698	
Arsenic	mg/kg	48.8	3.40	50	90.8	75-125	L519761-01	WG539593	
Barium	mg/kg	158.	108.	50	100.	75-125	L519761-01	WG539593	
Cadmium	mg/kg	46.4	0	50	92.8	75-125	L519761-01	WG539593	
Chromium	mg/kg	60.7	17.0	50	87.4	75-125	L519761-01	WG539593	
Copper	mg/kg	62.3	16.0	50	92.6	75-125	L519761-01	WG539593	
Lead	mg/kg	62.1	16.0	50	92.2	75-125	L519761-01	WG539593	
Nickel	mg/kg	50.6	12.0	50	77.2	75-125	L519761-01	WG539593	
Selenium	mg/kg	45.1	0	50	90.2	75-125	L519761-01	WG539593	
Silver	mg/kg	45.4	0.129	50	90.5	75-125	L519761-01	WG539593	
Zinc	mg/kg	95.1	48.0	50	94.2	75-125	L519761-01	WG539593	
Mercury	mg/kg	0.250	0.0160	.25	93.6	70-130	L519815-01	WG539585	
1-Methylnaphthalene	mg/kg	0.0214	0	.033	64.8	19-131	L519830-01	WG539568	
2-Chloronaphthalene	mg/kg	0.0232	0	.033	70.4	38-117	L519830-01	WG539568	
2-Methylnaphthalene	mg/kg	0.0232	0	.033	70.2	18-125	L519830-01	WG539568	
Acenaphthene	mg/kg	0.0249	0	.033	75.6	31-120	L519830-01	WG539568	
Acenaphthylene	mg/kg	0.0252	0	.033	76.3	34-116	L519830-01	WG539568	
Anthracene	mg/kg	0.0253	0	.033	76.6	32-131	L519830-01	WG539568	

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Est. 1970

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Benzo(a)anthracene	mg/kg	0.0332	0.00640	.033	81.1	32-131	L519830-01	WG539568
Benzo(a)pyrene	mg/kg	0.0281	0.00620	.033	66.3	28-130	L519830-01	WG539568
Benzo(b)fluoranthene	mg/kg	0.0354	0.00730	.033	85.0	37-130	L519830-01	WG539568
Benzo(g,h,i)perylene	mg/kg	0.0193	0	.033	58.6	10-134	L519830-01	WG539568
Benzo(k)fluoranthene	mg/kg	0.0257	0	.033	77.8	31-129	L519830-01	WG539568
Chrysene	mg/kg	0.0244	0	.033	74.0	25-137	L519830-01	WG539568
Dibenz(a,h)anthracene	mg/kg	0.0197	0	.033	59.6	20-134	L519830-01	WG539568
Fluoranthene	mg/kg	0.0334	0.00900	.033	73.9	27-138	L519830-01	WG539568
Fluorene	mg/kg	0.0261	0	.033	79.2	26-136	L519830-01	WG539568
Indeno(1,2,3-cd)pyrene	mg/kg	0.0199	0	.033	60.3	16-135	L519830-01	WG539568
Naphthalene	mg/kg	0.0239	0	.033	72.4	22-121	L519830-01	WG539568
Phenanthrene	mg/kg	0.0299	0	.033	90.6	27-133	L519830-01	WG539568
Pyrene	mg/kg	0.0283	0.00730	.033	63.6	22-133	L519830-01	WG539568
2-Fluorobiphenyl					71.25	33-114		WG539568
Nitrobenzene-d5					68.19	21-120		WG539568
p-Terphenyl-d14					66.68	18-142		WG539568
TPH (GC/FID) Low Fraction	mg/kg	22.2	0	5.5	80.6	55-109	L519796-01	WG539531
a,a,a-Trifluorotoluene(FID)					104.6	59-128		WG539531
TPH (GC/FID) High Fraction	ppm	47.0	0.380	60	77.6	50-150	L520052-05	WG540045
o-Terphenyl					75.24	50-150		WG540045
Chromium,Hexavalent	mg/kg	0	0	20	0*	50-150	L520219-01	WG540021

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
1,1,1-Trichloroethane	mg/kg	0.136	0.147	108.	23-147	7.82	32	L519783-02	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	0.0938	0.108	75.0	18-150	14.4	33	L519783-02	WG539511
1,1,2-Trichloroethane	mg/kg	0.106	0.120	85.0	35-140	12.3	29	L519783-02	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.158	0.179	126.	10-145	12.7	35	L519783-02	WG539511
1,1-Dichloroethane	mg/kg	0.130	0.142	104.	24-148	8.91	31	L519783-02	WG539511
1,1-Dichloroethene	mg/kg	0.146	0.167	117.	10-149	13.1	34	L519783-02	WG539511
1,2,3-Trichlorobenzene	mg/kg	0.0587	0.0695	47.0	10-129	16.9	43	L519783-02	WG539511
1,2,4-Trichlorobenzene	mg/kg	0.0681	0.0789	54.4	10-119	14.7	44	L519783-02	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	0.122	0.136	97.4	19-145	11.2	35	L519783-02	WG539511
1,2-Dibromoethane	mg/kg	0.104	0.119	83.0	24-145	13.2	31	L519783-02	WG539511
1,2-Dichlorobenzene	mg/kg	0.102	0.113	81.9	12-130	9.92	35	L519783-02	WG539511
1,2-Dichloroethane	mg/kg	0.116	0.127	93.1	21-155	8.95	29	L519783-02	WG539511
1,2-Dichloropropane	mg/kg	0.109	0.119	87.5	28-144	8.21	30	L519783-02	WG539511
1,3-Dichlorobenzene	mg/kg	0.0826	0.0957	66.1	10-129	14.8	38	L519783-02	WG539511
1,4-Dichlorobenzene	mg/kg	0.108	0.118	86.7	10-121	8.50	36	L519783-02	WG539511
2-Butanone (MEK)	mg/kg	0.621	0.697	99.4	21-143	11.5	37	L519783-02	WG539511
2-Hexanone	mg/kg	0.586	0.692	93.7	22-151	16.6	38	L519783-02	WG539511
4-Methyl-2-pentanone (MIBK)	mg/kg	0.596	0.688	95.4	31-151	14.2	36	L519783-02	WG539511
Acetone	mg/kg	0.650	0.749	104.	13-158	14.2	34	L519783-02	WG539511
Benzene	mg/kg	0.122	0.135	97.8	16-143	9.69	31	L519783-02	WG539511
Bromochloromethane	mg/kg	0.120	0.131	95.9	25-152	8.57	29	L519783-02	WG539511
Bromodichloromethane	mg/kg	0.109	0.118	87.1	27-139	8.16	30	L519783-02	WG539511
Bromoform	mg/kg	0.0831	0.0966	66.5	21-144	15.0	34	L519783-02	WG539511
Bromomethane	mg/kg	0.130	0.140	104.	0-180	7.38	41	L519783-02	WG539511
Carbon disulfide	mg/kg	0.136	0.153	108.	10-156	11.9	38	L519783-02	WG539511
Carbon tetrachloride	mg/kg	0.134	0.149	107.	12-149	10.6	34	L519783-02	WG539511
Chlorobenzene	mg/kg	0.0986	0.113	78.9	17-134	13.5	34	L519783-02	WG539511
Chlorodibromomethane	mg/kg	0.103	0.118	82.7	28-147	13.6	32	L519783-02	WG539511

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Chloroethane	mg/kg	0.126	0.138	101.	0-172	9.42	38	L519783-02	WG539511
Chloroform	mg/kg	0.126	0.138	101.	28-138	9.10	30	L519783-02	WG539511
Chloromethane	mg/kg	0.115	0.126	92.2	10-158	8.68	35	L519783-02	WG539511
cis-1,2-Dichloroethene	mg/kg	0.122	0.133	97.8	21-147	8.68	31	L519783-02	WG539511
cis-1,3-Dichloropropene	mg/kg	0.111	0.122	89.0	17-145	9.01	32	L519783-02	WG539511
Dichlorodifluoromethane	mg/kg	0.117	0.133	93.4	0-192	12.9	38	L519783-02	WG539511
Ethylbenzene	mg/kg	0.103	0.118	82.5	12-137	13.4	36	L519783-02	WG539511
Isopropylbenzene	mg/kg	0.109	0.126	87.4	14-134	14.1	37	L519783-02	WG539511
m&p-Xylene	mg/kg	0.206	0.234	82.2	10-135	13.0	37	L519783-02	WG539511
Methyl tert-butyl ether	mg/kg	0.134	0.146	107.	21-157	8.61	31	L519783-02	WG539511
Methylene Chloride	mg/kg	0.126	0.140	101.	12-149	9.91	31	L519783-02	WG539511
n-Hexane	mg/kg	0.0804	0.0926	64.3	10-129	14.2	42	L519783-02	WG539511
o-Xylene	mg/kg	0.100	0.114	80.0	14-140	12.8	35	L519783-02	WG539511
Styrene	mg/kg	0.0710	0.0819	56.8	10-140	14.3	35	L519783-02	WG539511
Tetrachloroethene	mg/kg	0.103	0.119	82.0	10-131	14.8	35	L519783-02	WG539511
Toluene	mg/kg	0.109	0.122	87.4	12-136	11.0	32	L519783-02	WG539511
trans-1,2-Dichloroethene	mg/kg	0.125	0.140	100.	10-143	11.3	33	L519783-02	WG539511
trans-1,3-Dichloropropene	mg/kg	0.106	0.116	84.7	16-147	9.47	32	L519783-02	WG539511
Trichloroethene	mg/kg	0.116	0.129	93.1	10-155	10.2	33	L519783-02	WG539511
Trichlorofluoromethane	mg/kg	0.141	0.155	113.	10-154	9.62	32	L519783-02	WG539511
Vinyl chloride	mg/kg	0.125	0.140	99.7	10-159	11.9	36	L519783-02	WG539511
Xylenes, Total	mg/kg	0.306	0.348	81.5	10-138	12.9	36	L519783-02	WG539511
4-Bromofluorobenzene				85.48	59-140				WG539511
Dibromofluoromethane				106.0	63-139				WG539511
Toluene-d8				96.95	84-116				WG539511
a,a,a-Trifluorotoluene				95.61	80-118				WG539511
TPH (GC/FID) Low Fraction	mg/kg	32.9	29.9	102.	55-109	9.74	20	L519859-01	WG539698
a,a,a-Trifluorotoluene(FID)				102.5	59-128				WG539698
Arsenic	mg/kg	45.0	48.8	83.2	75-125	8.10	20	L519761-01	WG539593
Barium	mg/kg	137.	158.	58.0*	75-125	14.2	20	L519761-01	WG539593
Cadmium	mg/kg	43.8	46.4	87.6	75-125	5.76	20	L519761-01	WG539593
Chromium	mg/kg	55.3	60.7	76.6	75-125	9.31	20	L519761-01	WG539593
Copper	mg/kg	59.7	62.3	87.4	75-125	4.26	20	L519761-01	WG539593
Lead	mg/kg	56.6	62.1	81.2	75-125	9.27	20	L519761-01	WG539593
Nickel	mg/kg	48.5	50.6	73.0*	75-125	4.24	20	L519761-01	WG539593
Selenium	mg/kg	42.6	45.1	85.2	75-125	5.70	20	L519761-01	WG539593
Silver	mg/kg	45.1	45.4	89.9	75-125	0.663	20	L519761-01	WG539593
Zinc	mg/kg	85.4	95.1	74.8*	75-125	10.7	20	L519761-01	WG539593
Mercury	mg/kg	0.240	0.250	89.6	70-130	4.08	20	L519815-01	WG539585
1-Methylnaphthalene	mg/kg	0.0224	0.0214	68.0	19-131	4.76	30	L519830-01	WG539568
2-Chloronaphthalene	mg/kg	0.0232	0.0232	70.4	38-117	0.0723	26	L519830-01	WG539568
2-Methylnaphthalene	mg/kg	0.0233	0.0232	70.5	18-125	0.421	29	L519830-01	WG539568
Acenaphthene	mg/kg	0.0236	0.0249	71.6	31-120	5.35	30	L519830-01	WG539568
Acenaphthylene	mg/kg	0.0249	0.0252	75.5	34-116	1.03	29	L519830-01	WG539568
Anthracene	mg/kg	0.0255	0.0253	77.2	32-131	0.798	26	L519830-01	WG539568
Benzo(a)anthracene	mg/kg	0.0385	0.0332	97.4	32-131	14.9	31	L519830-01	WG539568
Benzo(a)pyrene	mg/kg	0.0323	0.0281	79.0	28-130	13.9	28	L519830-01	WG539568
Benzo(b)fluoranthene	mg/kg	0.0393	0.0354	96.9	37-130	10.5	41	L519830-01	WG539568
Benzo(g,h,i)perylene	mg/kg	0.0189	0.0193	57.2	10-134	2.37	26	L519830-01	WG539568
Benzo(k)fluoranthene	mg/kg	0.0248	0.0257	75.2	31-129	3.38	42	L519830-01	WG539568
Chrysene	mg/kg	0.0261	0.0244	78.9	25-137	6.42	22	L519830-01	WG539568

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Dibenz(a,h)anthracene	mg/kg	0.0190	0.0197	57.6	20-134	3.41	25	L519830-01	WG539568
Fluoranthene	mg/kg	0.0415	0.0334	98.3	27-138	21.6	35	L519830-01	WG539568
Fluorene	mg/kg	0.0271	0.0261	82.1	26-136	3.60	30	L519830-01	WG539568
Indeno(1,2,3-cd)pyrene	mg/kg	0.0197	0.0199	59.8	16-135	0.853	26	L519830-01	WG539568
Naphthalene	mg/kg	0.0249	0.0239	75.6	22-121	4.20	30	L519830-01	WG539568
Phenanthrene	mg/kg	0.0332	0.0299	100.	27-133	10.3	36	L519830-01	WG539568
Pyrene	mg/kg	0.0351	0.0283	84.3	22-133	21.5	33	L519830-01	WG539568
2-Fluorobiphenyl				69.60	33-114				WG539568
Nitrobenzene-d5				66.50	21-120				WG539568
p-Terphenyl-d14				64.67	18-142				WG539568
TPH (GC/FID) Low Fraction	mg/kg	15.8	22.2	57.6	55-109	33.3*	20	L519796-01	WG539531
a,a,a-Trifluorotoluene(FID)				102.5	59-128				WG539531
TPH (GC/FID) High Fraction	ppm	47.8	47.0	79.0	50-150	1.79	20	L520052-05	WG540045
o-Terphenyl				75.38	50-150				WG540045
Chromium,Hexavalent	mg/kg	0	0	0*	50-150	0	20	L520219-01	WG540021

Batch number /Run number / Sample number cross reference

WG539516: R1717549: L519788-01 02 03 04 05
 WG539511: R1717552: L519788-01 02 03 04 05
 WG539698: R1718129: L519788-05
 WG539593: R1719159: L519788-01 02 03 04 05
 WG539585: R1719396: L519788-01 02 03 04 05
 WG539568: R1719432: L519788-02
 WG539694: R1719950: L519788-01 02 04
 WG539531: R1720792: L519788-01 02 03 04
 WG539889: R1720869: L519788-01 02 03 04 05
 WG539525: R1721352: L519788-01 02 03 04 05
 WG540012: R1722889: L519788-01 02 03 04 05
 WG540045: R1723610: L519788-03 05
 WG540021: R1724574: L519788-01 02 03 04 05

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

Parachute, CO 81635

Quality Assurance Report
Level II

L519788

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Tax I.D. 62-0814289

Est. 1970

June 17, 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.



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

Report Summary

Thursday June 16, 2011

Report Number: L519783

Samples Received: 06/08/11

Client Project:

Description: G09

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

June 16, 2011

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

Date Received : June 08, 2011
 Description : G09
 Sample ID : G09-PITW1
 Collected By : Brannen Graff
 Collection Date : 06/07/11 14:12

ESC Sample # : L519783-01
 Site ID : G09
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/14/11	1
Chromium,Trivalent	33.	2.0	mg/kg	Calc.	06/10/11	1
ORP	43.		mV	2580	06/09/11	1
pH	9.1		su	9045D	06/10/11	1
Sodium Adsorption Ratio	31.			Calc.	06/12/11	1
Specific Conductance	550		umhos/cm	9050AMod	06/09/11	1
Mercury	0.037	0.020	mg/kg	7471	06/10/11	1
Arsenic	9.1	2.0	mg/kg	6010B	06/10/11	2
Barium	750	0.25	mg/kg	6010B	06/10/11	1
Cadmium	1.2	0.25	mg/kg	6010B	06/10/11	1
Chromium	33.	0.50	mg/kg	6010B	06/10/11	1
Copper	30.	1.0	mg/kg	6010B	06/10/11	1
Lead	18.	0.25	mg/kg	6010B	06/10/11	1
Nickel	28.	2.0	mg/kg	6010B	06/10/11	2
Selenium	9.6	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	75.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	20.	5.0	mg/kg	8015D/GRO	06/09/11	50
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	104.		% Rec.	602/8015	06/09/11	50
Volatile Organics						
Acetone	BDL	2.5	mg/kg	8260B	06/09/11	50
Benzene	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromochloromethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromodichloromethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromoform	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromomethane	BDL	0.25	mg/kg	8260B	06/09/11	50
Carbon disulfide	BDL	0.050	mg/kg	8260B	06/09/11	50
Carbon tetrachloride	BDL	0.050	mg/kg	8260B	06/09/11	50
Chlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
Chlorodibromomethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Chloroethane	BDL	0.25	mg/kg	8260B	06/09/11	50
Chloroform	BDL	0.25	mg/kg	8260B	06/09/11	50
Chloromethane	BDL	0.12	mg/kg	8260B	06/09/11	50
Cyclohexane	BDL	0.050	mg/kg	8260B	06/09/11	50

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L519783-01 (V8260TCL) - Non-target compounds too high to run at a lower dilution.
 L519783-01 (PH) - 9.1@21.0c



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REPORT OF ANALYSIS

June 16, 2011

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

ESC Sample # : L519783-01

Date Received : June 08, 2011
 Description : G09

Site ID : G09

Sample ID : G09-PITW1

Project # :

Collected By : Brannen Graff
 Collection Date : 06/07/11 14:12

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dibromo-3-Chloropropane	BDL	0.25	mg/kg	8260B	06/09/11	50
1,2-Dibromoethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Dichlorodifluoromethane	BDL	0.25	mg/kg	8260B	06/09/11	50
1,1-Dichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2-Dichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2-Dichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,3-Dichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,4-Dichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1-Dichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
cis-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
trans-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2-Dichloropropane	BDL	0.050	mg/kg	8260B	06/09/11	50
cis-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	06/09/11	50
trans-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	06/09/11	50
Ethylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
n-Hexane	BDL	0.50	mg/kg	8260B	06/09/11	50
2-Hexanone	BDL	0.50	mg/kg	8260B	06/09/11	50
Isopropylbenzene	BDL	0.50	mg/kg	8260B	06/09/11	50
2-Butanone (MEK)	BDL	0.50	mg/kg	8260B	06/09/11	50
Methyl Acetate	BDL	1.0	mg/kg	8260B	06/09/11	50
Methyl Cyclohexane	0.12	0.050	mg/kg	8260B	06/09/11	50
Methylene Chloride	BDL	0.25	mg/kg	8260B	06/09/11	50
4-Methyl-2-pentanone (MIBK)	BDL	0.50	mg/kg	8260B	06/09/11	50
Methyl tert-butyl ether	BDL	0.050	mg/kg	8260B	06/09/11	50
Styrene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1,2,2-Tetrachloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Tetrachloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
Toluene	BDL	0.25	mg/kg	8260B	06/09/11	50
1,2,3-Trichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2,4-Trichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1,1-Trichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1,2-Trichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Trichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
Trichlorofluoromethane	BDL	0.25	mg/kg	8260B	06/09/11	50
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.050	mg/kg	8260B	06/09/11	50
Vinyl chloride	BDL	0.050	mg/kg	8260B	06/09/11	50
o-Xylene	BDL	0.050	mg/kg	8260B	06/09/11	50
m&p-Xylene	0.17	0.10	mg/kg	8260B	06/09/11	50
Xylenes, Total	0.20	0.15	mg/kg	8260B	06/09/11	50
Surrogate Recovery						
Toluene-d8	98.4		% Rec.	8260B	06/09/11	50
Dibromofluoromethane	99.0		% Rec.	8260B	06/09/11	50
a,a,a-Trifluorotoluene	99.9		% Rec.	8260B	06/09/11	50
4-Bromofluorobenzene	113.		% Rec.	8260B	06/09/11	50

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L519783-01 (V8260TCL) - Non-target compounds too high to run at a lower dilution.
 L519783-01 (PH) - 9.1@21.0c



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REPORT OF ANALYSIS

June 16, 2011

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

ESC Sample # : L519783-01

Date Received : June 08, 2011
Description : G09

Site ID : G09

Sample ID : G09-PITW1

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 14:12

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include TPH (GC/FID) High Fraction, Surrogate recovery(%), o-Terphenyl, Polynuclear Aromatic Hydrocarbons, Anthracene, Acenaphthene, Acenaphthylene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene, 1-Methylnaphthalene, 2-Methylnaphthalene, 2-Chloronaphthalene, Surrogate Recovery, Nitrobenzene-d5, 2-Fluorobiphenyl, p-Terphenyl-d14.

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: 06/16/11 10:28 Printed: 06/16/11 10:28

L519783-01 (V8260TCL) - Non-target compounds too high to run at a lower dilution.

L519783-01 (PH) - 9.1@21.0c



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REPORT OF ANALYSIS

June 16, 2011

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

Date Received : June 08, 2011
 Description : G09
 Sample ID : G09-PITW2
 Collected By : Brannen Graff
 Collection Date : 06/07/11 14:14

ESC Sample # : L519783-02
 Site ID : G09
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/14/11	1
Chromium,Trivalent	29.	2.0	mg/kg	Calc.	06/10/11	1
ORP	62.		mV	2580	06/09/11	1
pH	9.1		su	9045D	06/10/11	1
Sodium Adsorption Ratio	12.			Calc.	06/12/11	1
Specific Conductance	790		umhos/cm	9050AMod	06/09/11	1
Mercury	0.027	0.020	mg/kg	7471	06/10/11	1
Arsenic	7.0	1.0	mg/kg	6010B	06/10/11	1
Barium	2800	0.25	mg/kg	6010B	06/10/11	1
Cadmium	0.85	0.25	mg/kg	6010B	06/10/11	1
Chromium	29.	0.50	mg/kg	6010B	06/10/11	1
Copper	19.	1.0	mg/kg	6010B	06/10/11	1
Lead	16.	0.25	mg/kg	6010B	06/10/11	1
Nickel	17.	1.0	mg/kg	6010B	06/10/11	1
Selenium	9.1	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	54.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	06/09/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	103.		% Rec.	602/8015	06/09/11	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	06/09/11	5
Benzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	06/09/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloroform	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	06/09/11	5
Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L519783-02 (PH) - 9.1@20.5c



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Est. 1970

REPORT OF ANALYSIS

June 16, 2011

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

ESC Sample # : L519783-02

Date Received : June 08, 2011
 Description : G09

Site ID : G09

Sample ID : G09-PITW2

Project # :

Collected By : Brannen Graff
 Collection Date : 06/07/11 14:14

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	06/09/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	06/09/11	5
Methyl Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	06/09/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	06/09/11	5
Styrene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Toluene	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	06/09/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
o-Xylene	BDL	0.0050	mg/kg	8260B	06/09/11	5
m&p-Xylene	BDL	0.010	mg/kg	8260B	06/09/11	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	06/09/11	5
Surrogate Recovery						
Toluene-d8	96.0		% Rec.	8260B	06/09/11	5
Dibromofluoromethane	104.		% Rec.	8260B	06/09/11	5
a,a,a-Trifluorotoluene	95.5		% Rec.	8260B	06/09/11	5
4-Bromofluorobenzene	90.5		% Rec.	8260B	06/09/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 L519783-02 (PH) - 9.1@20.5c



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Est. 1970

REPORT OF ANALYSIS

June 16, 2011

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

ESC Sample # : L519783-02

Date Received : June 08, 2011
 Description : G09

Site ID : G09

Sample ID : G09-PITW2

Project # :

Collected By : Brannen Graff
 Collection Date : 06/07/11 14:14

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	200	4.0	mg/kg	3546/DRO	06/12/11	1
Surrogate recovery(%) o-Terphenyl	72.9		% Rec.	3546/DRO	06/12/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
2-Methylnaphthalene	0.014	0.0060	mg/kg	8270C-SIM	06/13/11	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Surrogate Recovery						
Nitrobenzene-d5	68.0		% Rec.	8270C-SIM	06/13/11	1
2-Fluorobiphenyl	69.7		% Rec.	8270C-SIM	06/13/11	1
p-Terphenyl-d14	66.0		% Rec.	8270C-SIM	06/13/11	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: 06/16/11 10:28 Printed: 06/16/11 10:28
 L519783-02 (PH) - 9.1@20.5c



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REPORT OF ANALYSIS

June 16, 2011

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

Date Received : June 08, 2011
 Description : G09
 Sample ID : G09-PITW3
 Collected By : Brannen Graff
 Collection Date : 06/07/11 14:18

ESC Sample # : L519783-03
 Site ID : G09
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/14/11	1
Chromium,Trivalent	22.	2.0	mg/kg	Calc.	06/10/11	1
ORP	84.		mV	2580	06/09/11	1
pH	8.9		su	9045D	06/10/11	1
Sodium Adsorption Ratio	8.2			Calc.	06/12/11	1
Specific Conductance	820		umhos/cm	9050AMod	06/09/11	1
Mercury	0.030	0.020	mg/kg	7471	06/10/11	1
Arsenic	6.3	1.0	mg/kg	6010B	06/10/11	1
Barium	3200	0.25	mg/kg	6010B	06/10/11	1
Cadmium	0.92	0.25	mg/kg	6010B	06/10/11	1
Chromium	22.	0.50	mg/kg	6010B	06/10/11	1
Copper	21.	1.0	mg/kg	6010B	06/10/11	1
Lead	14.	0.25	mg/kg	6010B	06/10/11	1
Nickel	18.	1.0	mg/kg	6010B	06/10/11	1
Selenium	4.5	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	54.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	06/09/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	103.		% Rec.	602/8015	06/09/11	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	06/09/11	5
Benzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	06/09/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloroform	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	06/09/11	5
Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L519783-03 (PH) - 8.9@20.7c



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REPORT OF ANALYSIS

June 16, 2011

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

ESC Sample # : L519783-03

Date Received : June 08, 2011
 Description : G09

Site ID : G09

Sample ID : G09-PITW3

Project # :

Collected By : Brannen Graff
 Collection Date : 06/07/11 14:18

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	06/09/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	06/09/11	5
Methyl Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	06/09/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	06/09/11	5
Styrene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Toluene	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	06/09/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
o-Xylene	BDL	0.0050	mg/kg	8260B	06/09/11	5
m&p-Xylene	BDL	0.010	mg/kg	8260B	06/09/11	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	06/09/11	5
Surrogate Recovery						
Toluene-d8	95.0		% Rec.	8260B	06/09/11	5
Dibromofluoromethane	104.		% Rec.	8260B	06/09/11	5
a,a,a-Trifluorotoluene	96.6		% Rec.	8260B	06/09/11	5
4-Bromofluorobenzene	91.8		% Rec.	8260B	06/09/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
 L519783-03 (PH) - 8.9@20.7c



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REPORT OF ANALYSIS

June 16, 2011

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

Date Received : June 08, 2011
 Description : G09
 Sample ID : G09-PITW3
 Collected By : Brannen Graff
 Collection Date : 06/07/11 14:18

ESC Sample # : L519783-03
 Site ID : G09
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	100	4.0	mg/kg	3546/DRO	06/12/11	1
Surrogate recovery(%) o-Terphenyl	73.8		% Rec.	3546/DRO	06/12/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Acenaphthene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Acenaphthylene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(a)anthracene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(a)pyrene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(b)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(g,h,i)perylene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(k)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Chrysene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Dibenz(a,h)anthracene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Fluorene	0.23	0.12	mg/kg	8270C-SIM	06/14/11	20
Indeno(1,2,3-cd)pyrene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Naphthalene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Phenanthrene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Pyrene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
1-Methylnaphthalene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
2-Methylnaphthalene	0.23	0.12	mg/kg	8270C-SIM	06/14/11	20
2-Chloronaphthalene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C-SIM	06/14/11	20
2-Fluorobiphenyl	0.00		% Rec.	8270C-SIM	06/14/11	20
p-Terphenyl-d14	0.00		% Rec.	8270C-SIM	06/14/11	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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 L519783-03 (PH) - 8.9@20.7c



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REPORT OF ANALYSIS

June 16, 2011

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

Date Received : June 08, 2011
 Description : G09
 Sample ID : G09-PITW4
 Collected By : Brannen Graff
 Collection Date : 06/07/11 14:22

ESC Sample # : L519783-04
 Site ID : G09
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/14/11	1
Chromium,Trivalent	29.	2.0	mg/kg	Calc.	06/10/11	1
ORP	64.		mV	2580	06/09/11	1
pH	11.		su	9045D	06/10/11	1
Sodium Adsorption Ratio	21.			Calc.	06/12/11	1
Specific Conductance	1100		umhos/cm	9050AMod	06/09/11	1
Mercury	0.027	0.020	mg/kg	7471	06/10/11	1
Arsenic	8.3	1.0	mg/kg	6010B	06/10/11	1
Barium	3200	0.25	mg/kg	6010B	06/10/11	1
Cadmium	0.92	0.25	mg/kg	6010B	06/10/11	1
Chromium	29.	0.50	mg/kg	6010B	06/10/11	1
Copper	20.	1.0	mg/kg	6010B	06/10/11	1
Lead	16.	0.25	mg/kg	6010B	06/10/11	1
Nickel	19.	1.0	mg/kg	6010B	06/10/11	1
Selenium	7.9	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	51.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	06/09/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	103.		% Rec.	602/8015	06/09/11	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	06/09/11	5
Benzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	06/09/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloroform	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	06/09/11	5
Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L519783-04 (PH) - 11@20.8c



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REPORT OF ANALYSIS

June 16, 2011

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

ESC Sample # : L519783-04

Date Received : June 08, 2011
 Description : G09

Site ID : G09

Sample ID : G09-PITW4

Project # :

Collected By : Brannen Graff
 Collection Date : 06/07/11 14:22

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	06/09/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	06/09/11	5
Methyl Cyclohexane	0.012	0.0050	mg/kg	8260B	06/09/11	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	06/09/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	06/09/11	5
Styrene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Toluene	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	06/09/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
o-Xylene	BDL	0.0050	mg/kg	8260B	06/09/11	5
m&p-Xylene	BDL	0.010	mg/kg	8260B	06/09/11	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	06/09/11	5
Surrogate Recovery						
Toluene-d8	96.0		% Rec.	8260B	06/09/11	5
Dibromofluoromethane	98.3		% Rec.	8260B	06/09/11	5
a,a,a-Trifluorotoluene	95.8		% Rec.	8260B	06/09/11	5
4-Bromofluorobenzene	94.6		% Rec.	8260B	06/09/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L519783-04 (PH) - 11@20.8c



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

June 16, 2011

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

ESC Sample # : L519783-04

Date Received : June 08, 2011
 Description : G09

Site ID : G09

Sample ID : G09-PITW4

Project # :

Collected By : Brannen Graff
 Collection Date : 06/07/11 14:22

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	390	4.0	mg/kg	3546/DRO	06/12/11	1
Surrogate recovery(%)						
o-Terphenyl	76.3		% Rec.	3546/DRO	06/12/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Acenaphthene	0.0099	0.0060	mg/kg	8270C-SIM	06/13/11	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Fluorene	0.019	0.0060	mg/kg	8270C-SIM	06/13/11	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Naphthalene	0.042	0.0060	mg/kg	8270C-SIM	06/13/11	1
Phenanthrene	0.041	0.0060	mg/kg	8270C-SIM	06/13/11	1
Pyrene	0.024	0.0060	mg/kg	8270C-SIM	06/13/11	1
1-Methylnaphthalene	0.041	0.0060	mg/kg	8270C-SIM	06/13/11	1
2-Methylnaphthalene	0.096	0.0060	mg/kg	8270C-SIM	06/13/11	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Surrogate Recovery						
Nitrobenzene-d5	59.2		% Rec.	8270C-SIM	06/13/11	1
2-Fluorobiphenyl	51.9		% Rec.	8270C-SIM	06/13/11	1
p-Terphenyl-d14	76.9		% Rec.	8270C-SIM	06/13/11	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: 06/16/11 10:28 Printed: 06/16/11 10:28
 L519783-04 (PH) - 11@20.8c



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Est. 1970

REPORT OF ANALYSIS

June 16, 2011

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

Date Received : June 08, 2011
 Description : G09
 Sample ID : G09-PITW5
 Collected By : Brannen Graff
 Collection Date : 06/07/11 14:25

ESC Sample # : L519783-05
 Site ID : G09
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/14/11	1
Chromium,Trivalent	23.	2.0	mg/kg	Calc.	06/10/11	1
ORP	80.		mV	2580	06/09/11	1
pH	9.0		su	9045D	06/10/11	1
Sodium Adsorption Ratio	11.			Calc.	06/12/11	1
Specific Conductance	1600		umhos/cm	9050AMod	06/09/11	1
Mercury	0.025	0.020	mg/kg	7471	06/10/11	1
Arsenic	5.7	1.0	mg/kg	6010B	06/10/11	1
Barium	2900	0.25	mg/kg	6010B	06/10/11	1
Cadmium	0.88	0.25	mg/kg	6010B	06/10/11	1
Chromium	23.	0.50	mg/kg	6010B	06/10/11	1
Copper	21.	1.0	mg/kg	6010B	06/10/11	1
Lead	16.	0.25	mg/kg	6010B	06/10/11	1
Nickel	15.	1.0	mg/kg	6010B	06/10/11	1
Selenium	7.5	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	46.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	21.	5.0	mg/kg	8015D/GRO	06/09/11	50
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	105.		% Rec.	602/8015	06/09/11	50
Volatile Organics						
Acetone	BDL	2.5	mg/kg	8260B	06/09/11	50
Benzene	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromochloromethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromodichloromethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromoform	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromomethane	BDL	0.25	mg/kg	8260B	06/09/11	50
Carbon disulfide	BDL	0.050	mg/kg	8260B	06/09/11	50
Carbon tetrachloride	BDL	0.050	mg/kg	8260B	06/09/11	50
Chlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
Chlorodibromomethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Chloroethane	BDL	0.25	mg/kg	8260B	06/09/11	50
Chloroform	BDL	0.25	mg/kg	8260B	06/09/11	50
Chloromethane	BDL	0.12	mg/kg	8260B	06/09/11	50
Cyclohexane	BDL	0.050	mg/kg	8260B	06/09/11	50

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L519783-05 (V8260TCL) - Non-target compounds too high to run at a lower dilution.
 L519783-05 (PH) - 9.0@20.8c



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REPORT OF ANALYSIS

June 16, 2011

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

ESC Sample # : L519783-05

Date Received : June 08, 2011
 Description : G09

Site ID : G09

Sample ID : G09-PITW5

Project # :

Collected By : Brannen Graff
 Collection Date : 06/07/11 14:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dibromo-3-Chloropropane	BDL	0.25	mg/kg	8260B	06/09/11	50
1,2-Dibromoethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Dichlorodifluoromethane	BDL	0.25	mg/kg	8260B	06/09/11	50
1,1-Dichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2-Dichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2-Dichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,3-Dichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,4-Dichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1-Dichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
cis-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
trans-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2-Dichloropropane	BDL	0.050	mg/kg	8260B	06/09/11	50
cis-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	06/09/11	50
trans-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	06/09/11	50
Ethylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
n-Hexane	BDL	0.50	mg/kg	8260B	06/09/11	50
2-Hexanone	BDL	0.50	mg/kg	8260B	06/09/11	50
Isopropylbenzene	BDL	0.50	mg/kg	8260B	06/09/11	50
2-Butanone (MEK)	BDL	0.50	mg/kg	8260B	06/09/11	50
Methyl Acetate	BDL	1.0	mg/kg	8260B	06/09/11	50
Methyl Cyclohexane	BDL	0.050	mg/kg	8260B	06/09/11	50
Methylene Chloride	BDL	0.25	mg/kg	8260B	06/09/11	50
4-Methyl-2-pentanone (MIBK)	BDL	0.50	mg/kg	8260B	06/09/11	50
Methyl tert-butyl ether	BDL	0.050	mg/kg	8260B	06/09/11	50
Styrene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1,2,2-Tetrachloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Tetrachloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
Toluene	BDL	0.25	mg/kg	8260B	06/09/11	50
1,2,3-Trichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2,4-Trichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1,1-Trichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1,2-Trichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Trichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
Trichlorofluoromethane	BDL	0.25	mg/kg	8260B	06/09/11	50
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.050	mg/kg	8260B	06/09/11	50
Vinyl chloride	BDL	0.050	mg/kg	8260B	06/09/11	50
o-Xylene	BDL	0.050	mg/kg	8260B	06/09/11	50
m&p-Xylene	BDL	0.10	mg/kg	8260B	06/09/11	50
Xylenes, Total	BDL	0.15	mg/kg	8260B	06/09/11	50
Surrogate Recovery						
Toluene-d8	97.1		% Rec.	8260B	06/09/11	50
Dibromofluoromethane	96.1		% Rec.	8260B	06/09/11	50
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	06/09/11	50
4-Bromofluorobenzene	110.		% Rec.	8260B	06/09/11	50

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

L519783-05 (V8260TCL) - Non-target compounds too high to run at a lower dilution.

L519783-05 (PH) - 9.0@20.8c



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Est. 1970

REPORT OF ANALYSIS

June 16, 2011

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

Date Received : June 08, 2011
 Description : G09
 Sample ID : G09-PITW5
 Collected By : Brannen Graff
 Collection Date : 06/07/11 14:25

ESC Sample # : L519783-05
 Site ID : G09
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	3600	80.	mg/kg	3546/DRO	06/12/11	20
Surrogate recovery(%) o-Terphenyl	0.00		% Rec.	3546/DRO	06/12/11	20
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Acenaphthene	0.14	0.12	mg/kg	8270C-SIM	06/14/11	20
Acenaphthylene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(a)anthracene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(a)pyrene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(b)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(g,h,i)perylene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(k)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Chrysene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Dibenz(a,h)anthracene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Fluorene	0.63	0.12	mg/kg	8270C-SIM	06/14/11	20
Indeno(1,2,3-cd)pyrene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Naphthalene	0.19	0.12	mg/kg	8270C-SIM	06/14/11	20
Phenanthrene	0.37	0.12	mg/kg	8270C-SIM	06/14/11	20
Pyrene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
1-Methylnaphthalene	0.26	0.12	mg/kg	8270C-SIM	06/14/11	20
2-Methylnaphthalene	0.54	0.12	mg/kg	8270C-SIM	06/14/11	20
2-Chloronaphthalene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C-SIM	06/14/11	20
2-Fluorobiphenyl	0.00		% Rec.	8270C-SIM	06/14/11	20
p-Terphenyl-d14	0.00		% Rec.	8270C-SIM	06/14/11	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 06/16/11 10:28 Printed: 06/16/11 10:28

L519783-05 (V8260TCL) - Non-target compounds too high to run at a lower dilution.

L519783-05 (PH) - 9.0@20.8c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L519783-01	WG539511	SAMP	Styrene	R1717552	J4
	WG539694	SAMP	o-Terphenyl	R1719950	J7
L519783-02	WG539511	SAMP	Styrene	R1717552	J4
L519783-03	WG539568	SAMP	Nitrobenzene-d5	R1719432	J7
	WG539568	SAMP	2-Fluorobiphenyl	R1719432	J7
	WG539568	SAMP	p-Terphenyl-d14	R1719432	J7
L519783-04	WG539511	SAMP	Styrene	R1717552	J4
	WG539511	SAMP	Styrene	R1717552	J4
	WG539511	SAMP	Styrene	R1717552	J4
L519783-05	WG539568	SAMP	Nitrobenzene-d5	R1719432	J7
	WG539568	SAMP	2-Fluorobiphenyl	R1719432	J7
	WG539568	SAMP	p-Terphenyl-d14	R1719432	J7
	WG539511	SAMP	Styrene	R1717552	J4
	WG539694	SAMP	o-Terphenyl	R1719950	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
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

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
06/16/11 at 10:28:50

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L519783-01 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 10:28
Sample: L519783-02 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 10:28
Sample: L519783-03 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 10:28
Sample: L519783-04 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 10:28
Sample: L519783-05 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 10:28



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

Quality Assurance Report
 Level II

L519783

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

Tax I.D. 62-0814289

Est. 1970

June 16, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
1,1,1-Trichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1,2-Trichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1-Dichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1-Dichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2,3-Trichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2,4-Trichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG539511	06/09/11 02:44
1,2-Dibromoethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dichloropropane	< .001	mg/kg			WG539511	06/09/11 02:44
1,3-Dichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,4-Dichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
2-Butanone (MEK)	< .01	mg/kg			WG539511	06/09/11 02:44
2-Hexanone	< .01	mg/kg			WG539511	06/09/11 02:44
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG539511	06/09/11 02:44
Acetone	< .05	mg/kg			WG539511	06/09/11 02:44
Benzene	< .001	mg/kg			WG539511	06/09/11 02:44
Bromochloromethane	< .001	mg/kg			WG539511	06/09/11 02:44
Bromodichloromethane	< .001	mg/kg			WG539511	06/09/11 02:44
Bromoform	< .001	mg/kg			WG539511	06/09/11 02:44
Bromomethane	< .005	mg/kg			WG539511	06/09/11 02:44
Carbon disulfide	< .001	mg/kg			WG539511	06/09/11 02:44
Carbon tetrachloride	< .001	mg/kg			WG539511	06/09/11 02:44
Chlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
Chlorodibromomethane	< .001	mg/kg			WG539511	06/09/11 02:44
Chloroethane	< .005	mg/kg			WG539511	06/09/11 02:44
Chloroform	< .005	mg/kg			WG539511	06/09/11 02:44
Chloromethane	< .0025	mg/kg			WG539511	06/09/11 02:44
cis-1,2-Dichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
cis-1,3-Dichloropropene	< .001	mg/kg			WG539511	06/09/11 02:44
Cyclohexane	< .001	mg/kg			WG539511	06/09/11 02:44
Dichlorodifluoromethane	< .005	mg/kg			WG539511	06/09/11 02:44
Ethylbenzene	< .001	mg/kg			WG539511	06/09/11 02:44
Isopropylbenzene	< .001	mg/kg			WG539511	06/09/11 02:44
m&p-Xylene	< .002	mg/kg			WG539511	06/09/11 02:44
Methyl Acetate	< .02	mg/kg			WG539511	06/09/11 02:44
Methyl Cyclohexane	< .001	mg/kg			WG539511	06/09/11 02:44
Methyl tert-butyl ether	< .001	mg/kg			WG539511	06/09/11 02:44
Methylene Chloride	< .005	mg/kg			WG539511	06/09/11 02:44
n-Hexane	< .01	mg/kg			WG539511	06/09/11 02:44
o-Xylene	< .001	mg/kg			WG539511	06/09/11 02:44
Styrene	< .001	mg/kg			WG539511	06/09/11 02:44
Tetrachloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
Toluene	< .005	mg/kg			WG539511	06/09/11 02:44
trans-1,2-Dichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
trans-1,3-Dichloropropene	< .001	mg/kg			WG539511	06/09/11 02:44
Trichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
Trichlorofluoromethane	< .005	mg/kg			WG539511	06/09/11 02:44
Vinyl chloride	< .001	mg/kg			WG539511	06/09/11 02:44
Xylenes, Total	< .003	mg/kg			WG539511	06/09/11 02:44
4-Bromofluorobenzene		% Rec.	100.1	59-140	WG539511	06/09/11 02:44
Dibromofluoromethane		% Rec.	100.7	63-139	WG539511	06/09/11 02:44
Toluene-d8		% Rec.	99.02	84-116	WG539511	06/09/11 02:44
a,a,a-Trifluorotoluene		% Rec.	100.1	80-118	WG539511	06/09/11 02:44

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Quality Assurance Report
 Level II

L519783

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

June 16, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Specific Conductance	1.10	umhos/cm			WG539561	06/09/11 15:12
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG539506	06/09/11 12:25
a,a,a-Trifluorotoluene(FID)		% Rec.	104.5	59-128	WG539506	06/09/11 12:25
Arsenic	< 1	mg/kg			WG539592	06/10/11 11:02
Barium	< .25	mg/kg			WG539592	06/10/11 11:02
Cadmium	< .25	mg/kg			WG539592	06/10/11 11:02
Chromium	< .5	mg/kg			WG539592	06/10/11 11:02
Copper	< 1	mg/kg			WG539592	06/10/11 11:02
Lead	< .25	mg/kg			WG539592	06/10/11 11:02
Nickel	< 1	mg/kg			WG539592	06/10/11 11:02
Selenium	< 1	mg/kg			WG539592	06/10/11 11:02
Silver	< .5	mg/kg			WG539592	06/10/11 11:02
Zinc	< 1.5	mg/kg			WG539592	06/10/11 11:02
Mercury	< .02	mg/kg			WG539584	06/10/11 02:26
Mercury	< .02	mg/kg			WG539585	06/10/11 03:57
pH	4.00	su			WG539718	06/10/11 15:39
1-Methylnaphthalene	< .006	mg/kg			WG539568	06/10/11 11:38
2-Chloronaphthalene	< .006	mg/kg			WG539568	06/10/11 11:38
2-Methylnaphthalene	< .006	mg/kg			WG539568	06/10/11 11:38
Acenaphthene	< .006	mg/kg			WG539568	06/10/11 11:38
Acenaphthylene	< .006	mg/kg			WG539568	06/10/11 11:38
Anthracene	< .006	mg/kg			WG539568	06/10/11 11:38
Benzo(a)anthracene	< .006	mg/kg			WG539568	06/10/11 11:38
Benzo(a)pyrene	< .006	mg/kg			WG539568	06/10/11 11:38
Benzo(b)fluoranthene	< .006	mg/kg			WG539568	06/10/11 11:38
Benzo(g,h,i)perylene	< .006	mg/kg			WG539568	06/10/11 11:38
Benzo(k)fluoranthene	< .006	mg/kg			WG539568	06/10/11 11:38
Chrysene	< .006	mg/kg			WG539568	06/10/11 11:38
Dibenz(a,h)anthracene	< .006	mg/kg			WG539568	06/10/11 11:38
Fluoranthene	< .006	mg/kg			WG539568	06/10/11 11:38
Fluorene	< .006	mg/kg			WG539568	06/10/11 11:38
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG539568	06/10/11 11:38
Naphthalene	< .006	mg/kg			WG539568	06/10/11 11:38
Phenanthrene	< .006	mg/kg			WG539568	06/10/11 11:38
Pyrene	< .006	mg/kg			WG539568	06/10/11 11:38
2-Fluorobiphenyl		% Rec.	63.39	21-120	WG539568	06/10/11 11:38
Nitrobenzene-d5		% Rec.	56.39	33-114	WG539568	06/10/11 11:38
p-Terphenyl-d14		% Rec.	72.40	18-142	WG539568	06/10/11 11:38
TPH (GC/FID) High Fraction	< 4	ppm			WG539694	06/11/11 10:54
o-Terphenyl		% Rec.	71.47	50-150	WG539694	06/11/11 10:54
Chromium,Hexavalent	< 2	mg/kg			WG539674	06/14/11 14:17

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Tax I.D. 62-0814289

Est. 1970

June 16, 2011

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate					
ORP	mV	69.0	66.0	4.44	20	L519614-03	WG539516	
ORP	mV	120.	110.	7.02	20	L519788-04	WG539516	
Specific Conductance	umhos/cm	4700	5000	7.04	20	L519614-03	WG539561	
Specific Conductance	umhos/cm	0	440.	NA	20	L519784-05	WG539561	
Arsenic	mg/kg	5.70	3.85	39.2*	20	L519756-07	WG539592	
Barium	mg/kg	48.0	38.4	21.6*	20	L519756-07	WG539592	
Cadmium	mg/kg	0.370	0.320	15.0	20	L519756-07	WG539592	
Chromium	mg/kg	12.0	9.85	22.1*	20	L519756-07	WG539592	
Copper	mg/kg	9.60	7.95	18.8	20	L519756-07	WG539592	
Lead	mg/kg	36.0	47.7	26.6*	20	L519756-07	WG539592	
Nickel	mg/kg	8.60	6.47	28.0*	20	L519756-07	WG539592	
Selenium	mg/kg	6.90	6.25	10.3	20	L519756-07	WG539592	
Silver	mg/kg	0	0.0236	NA	20	L519756-07	WG539592	
Zinc	mg/kg	33.0	34.0	2.08	20	L519756-07	WG539592	
Mercury	mg/kg	0.0450	0.0390	14.7	20	L519741-03	WG539584	
Mercury	mg/kg	0.0170	0.0160	6.06	20	L519815-01	WG539585	
pH	su	8.40	8.40	0	1	L519125-01	WG539718	
pH	su	9.00	9.00	0	1	L519783-05	WG539718	
Chromium,Hexavalent	mg/kg	0	0	0	20	L519501-03	WG539674	
Chromium,Hexavalent	mg/kg	0	0	0	20	L519783-05	WG539674	

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
ORP	mV	229	230.	100.	95.6-104.37	WG539516
1,1,1-Trichloroethane	mg/kg	.025	0.0279	112.	62-135	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0246	98.6	74-129	WG539511
1,1,2-Trichloroethane	mg/kg	.025	0.0252	101.	77-124	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.025	0.0337	135.	49-155	WG539511
1,1-Dichloroethane	mg/kg	.025	0.0287	115.	61-134	WG539511
1,1-Dichloroethene	mg/kg	.025	0.0322	129.	53-136	WG539511
1,2,3-Trichlorobenzene	mg/kg	.025	0.0255	102.	62-146	WG539511
1,2,4-Trichlorobenzene	mg/kg	.025	0.0264	106.	61-148	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0272	109.	61-134	WG539511
1,2-Dibromoethane	mg/kg	.025	0.0258	103.	76-127	WG539511
1,2-Dichlorobenzene	mg/kg	.025	0.0256	102.	77-123	WG539511
1,2-Dichloroethane	mg/kg	.025	0.0270	108.	58-141	WG539511
1,2-Dichloropropane	mg/kg	.025	0.0259	103.	71-128	WG539511
1,3-Dichlorobenzene	mg/kg	.025	0.0248	99.1	71-132	WG539511
1,4-Dichlorobenzene	mg/kg	.025	0.0259	104.	72-123	WG539511
2-Butanone (MEK)	mg/kg	.125	0.141	113.	51-131	WG539511
2-Hexanone	mg/kg	.125	0.137	110.	62-145	WG539511
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.143	114.	61-143	WG539511
Acetone	mg/kg	.125	0.146	117.	44-140	WG539511
Benzene	mg/kg	.025	0.0278	111.	65-128	WG539511
Bromochloromethane	mg/kg	.025	0.0284	114.	73-130	WG539511

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Bromodichloromethane	mg/kg	.025	0.0257	103.	66-126	WG539511
Bromoform	mg/kg	.025	0.0217	86.6	64-139	WG539511
Bromomethane	mg/kg	.025	0.0292	117.	41-175	WG539511
Carbon disulfide	mg/kg	.025	0.0341	136.	36-161	WG539511
Carbon tetrachloride	mg/kg	.025	0.0289	116.	60-140	WG539511
Chlorobenzene	mg/kg	.025	0.0247	99.0	75-125	WG539511
Chlorodibromomethane	mg/kg	.025	0.0257	103.	72-137	WG539511
Chloroethane	mg/kg	.025	0.0269	108.	44-159	WG539511
Chloroform	mg/kg	.025	0.0280	112.	63-123	WG539511
Chloromethane	mg/kg	.025	0.0261	104.	42-149	WG539511
cis-1,2-Dichloroethene	mg/kg	.025	0.0278	111.	71-129	WG539511
cis-1,3-Dichloropropene	mg/kg	.025	0.0268	107.	73-132	WG539511
Dichlorodifluoromethane	mg/kg	.025	0.0286	115.	26-186	WG539511
Ethylbenzene	mg/kg	.025	0.0249	99.8	74-128	WG539511
Isopropylbenzene	mg/kg	.025	0.0276	110.	73-130	WG539511
m&p-Xylene	mg/kg	.05	0.0504	101.	73-127	WG539511
Methyl tert-butyl ether	mg/kg	.025	0.0303	121.	44-148	WG539511
Methylene Chloride	mg/kg	.025	0.0293	117.	57-129	WG539511
n-Hexane	mg/kg	.025	0.0256	103.	28-169	WG539511
o-Xylene	mg/kg	.025	0.0250	99.8	75-129	WG539511
Styrene	mg/kg	.025	0.0190	75.9*	76-133	WG539511
Tetrachloroethene	mg/kg	.025	0.0248	99.3	65-135	WG539511
Toluene	mg/kg	.025	0.0254	102.	70-120	WG539511
trans-1,2-Dichloroethene	mg/kg	.025	0.0289	116.	61-133	WG539511
trans-1,3-Dichloropropene	mg/kg	.025	0.0262	105.	70-135	WG539511
Trichloroethene	mg/kg	.025	0.0260	104.	71-126	WG539511
Trichlorofluoromethane	mg/kg	.025	0.0285	114.	52-147	WG539511
Vinyl chloride	mg/kg	.025	0.0273	109.	50-151	WG539511
Xylenes, Total	mg/kg	.075	0.0753	100.	74-127	WG539511
4-Bromofluorobenzene				92.91	59-140	WG539511
Dibromofluoromethane				109.8	63-139	WG539511
Toluene-d8				98.29	84-116	WG539511
a,a,a-Trifluorotoluene				100.1	80-118	WG539511
Specific Conductance	umhos/cm	556	560.	101.	85-115	WG539561
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.77	105.	67-135	WG539506
a,a,a-Trifluorotoluene(FID)				110.9	59-128	WG539506
Arsenic	mg/kg	192	187.	97.4	78.6-120.8	WG539592
Barium	mg/kg	420	418.	99.5	78.8-121.4	WG539592
Cadmium	mg/kg	70.1	66.7	95.2	78.5-121.5	WG539592
Chromium	mg/kg	168	170.	101.	80.4-120.2	WG539592
Copper	mg/kg	122	127.	104.	81.6-119.7	WG539592
Lead	mg/kg	113	113.	100.	77.3-122.1	WG539592
Nickel	mg/kg	74.1	78.0	105.	78.8-121.2	WG539592
Selenium	mg/kg	176	185.	105.	75.6-125.0	WG539592
Silver	mg/kg	115	116.	101.	66-133.9	WG539592
Zinc	mg/kg	437	424.	97.0	78.5-121.7	WG539592
Mercury	mg/kg	8.77	10.4	119.	71.6-127.7	WG539584
Mercury	mg/kg	8.77	8.60	98.1	71.6-127.7	WG539585

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
pH	su	6.3	6.30	100.	97.98-102.02	WG539718
1-Methylnaphthalene	mg/kg	.033	0.0209	63.3	41-110	WG539568
2-Chloronaphthalene	mg/kg	.033	0.0210	63.6	43-109	WG539568
2-Methylnaphthalene	mg/kg	.033	0.0204	61.8	38-104	WG539568
Acenaphthene	mg/kg	.033	0.0221	66.9	48-103	WG539568
Acenaphthylene	mg/kg	.033	0.0225	68.1	43-106	WG539568
Anthracene	mg/kg	.033	0.0233	70.6	51-110	WG539568
Benzo(a)anthracene	mg/kg	.033	0.0249	75.4	38-126	WG539568
Benzo(a)pyrene	mg/kg	.033	0.0229	69.4	47-118	WG539568
Benzo(b)fluoranthene	mg/kg	.033	0.0274	83.1	47-118	WG539568
Benzo(g,h,i)perylene	mg/kg	.033	0.0277	84.0	40-125	WG539568
Benzo(k)fluoranthene	mg/kg	.033	0.0223	67.6	45-121	WG539568
Chrysene	mg/kg	.033	0.0225	68.3	35-135	WG539568
Dibenz(a,h)anthracene	mg/kg	.033	0.0263	79.8	41-124	WG539568
Fluoranthene	mg/kg	.033	0.0238	72.1	50-114	WG539568
Fluorene	mg/kg	.033	0.0234	70.8	49-109	WG539568
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0264	80.0	40-126	WG539568
Naphthalene	mg/kg	.033	0.0212	64.3	36-100	WG539568
Phenanthrene	mg/kg	.033	0.0238	72.1	46-108	WG539568
Pyrene	mg/kg	.033	0.0226	68.3	30-136	WG539568
2-Fluorobiphenyl				63.13	33-114	WG539568
Nitrobenzene-d5				58.34	21-120	WG539568
p-Terphenyl-d14				65.45	18-142	WG539568
TPH (GC/FID) High Fraction	ppm	60	50.7	84.5	50-150	WG539694
o-Terphenyl				69.54	50-150	WG539694
Chromium,Hexavalent	mg/kg	132	120.	90.9	50-150	WG539674

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
ORP	mV	220.	230.	96.0	95.6-104.37	4.44	20	WG539516
1,1,1-Trichloroethane	mg/kg	0.0258	0.0279	103.	62-135	7.82	20	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	0.0225	0.0246	90.0	74-129	9.22	20	WG539511
1,1,2-Trichloroethane	mg/kg	0.0231	0.0252	92.0	77-124	8.74	20	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0306	0.0337	122.	49-155	9.59	20	WG539511
1,1-Dichloroethane	mg/kg	0.0260	0.0287	104.	61-134	9.93	20	WG539511
1,1-Dichloroethene	mg/kg	0.0291	0.0322	116.	53-136	9.89	20	WG539511
1,2,3-Trichlorobenzene	mg/kg	0.0223	0.0255	89.0	62-146	13.5	20	WG539511
1,2,4-Trichlorobenzene	mg/kg	0.0232	0.0264	93.0	61-148	12.8	20	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	0.0221	0.0272	88.0	61-134	20.9	21	WG539511
1,2-Dibromoethane	mg/kg	0.0233	0.0258	93.0	76-127	9.96	20	WG539511
1,2-Dichlorobenzene	mg/kg	0.0227	0.0256	91.0	77-123	11.9	20	WG539511
1,2-Dichloroethane	mg/kg	0.0243	0.0270	97.0	58-141	10.6	20	WG539511
1,2-Dichloropropane	mg/kg	0.0229	0.0259	91.0	71-128	12.4	20	WG539511
1,3-Dichlorobenzene	mg/kg	0.0234	0.0248	94.0	71-132	5.62	20	WG539511
1,4-Dichlorobenzene	mg/kg	0.0233	0.0259	93.0	72-123	10.8	20	WG539511
2-Butanone (MEK)	mg/kg	0.119	0.141	96.0	51-131	16.4	25	WG539511
2-Hexanone	mg/kg	0.122	0.137	98.0	62-145	11.7	23	WG539511
4-Methyl-2-pentanone (MIBK)	mg/kg	0.120	0.143	96.0	61-143	16.8	23	WG539511
Acetone	mg/kg	0.123	0.146	99.0	44-140	16.7	25	WG539511

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Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
Benzene	mg/kg	0.0252	0.0278	101.		65-128	9.53	20	WG539511
Bromochloromethane	mg/kg	0.0253	0.0284	101.		73-130	11.8	20	WG539511
Bromodichloromethane	mg/kg	0.0227	0.0257	91.0		66-126	12.3	20	WG539511
Bromoform	mg/kg	0.0200	0.0217	80.0		64-139	7.92	20	WG539511
Bromomethane	mg/kg	0.0276	0.0292	110.		41-175	5.53	20	WG539511
Carbon disulfide	mg/kg	0.0319	0.0341	128.		36-161	6.67	20	WG539511
Carbon tetrachloride	mg/kg	0.0262	0.0289	105.		60-140	9.65	20	WG539511
Chlorobenzene	mg/kg	0.0229	0.0247	92.0		75-125	7.77	20	WG539511
Chlorodibromomethane	mg/kg	0.0232	0.0257	93.0		72-137	10.3	20	WG539511
Chloroethane	mg/kg	0.0253	0.0269	101.		44-159	5.89	20	WG539511
Chloroform	mg/kg	0.0253	0.0280	101.		63-123	10.1	20	WG539511
Chloromethane	mg/kg	0.0240	0.0261	96.0		42-149	8.65	20	WG539511
cis-1,2-Dichloroethene	mg/kg	0.0252	0.0278	101.		71-129	9.52	20	WG539511
cis-1,3-Dichloropropene	mg/kg	0.0238	0.0268	95.0		73-132	11.9	20	WG539511
Dichlorodifluoromethane	mg/kg	0.0257	0.0286	103.		26-186	10.7	22	WG539511
Ethylbenzene	mg/kg	0.0234	0.0249	94.0		74-128	6.19	20	WG539511
Isopropylbenzene	mg/kg	0.0260	0.0276	104.		73-130	5.67	20	WG539511
m&p-Xylene	mg/kg	0.0473	0.0504	94.0		73-127	6.37	20	WG539511
Methyl tert-butyl ether	mg/kg	0.0271	0.0303	108.		44-148	11.3	20	WG539511
Methylene Chloride	mg/kg	0.0260	0.0293	104.		57-129	11.7	20	WG539511
n-Hexane	mg/kg	0.0232	0.0256	93.0		28-169	10.1	20	WG539511
o-Xylene	mg/kg	0.0233	0.0250	93.0		75-129	6.73	20	WG539511
Styrene	mg/kg	0.0175	0.0190	70*		76-133	7.90	20	WG539511
Tetrachloroethene	mg/kg	0.0229	0.0248	91.0		65-135	8.26	20	WG539511
Toluene	mg/kg	0.0226	0.0254	90.0		70-120	11.5	20	WG539511
trans-1,2-Dichloroethene	mg/kg	0.0260	0.0289	104.		61-133	10.5	20	WG539511
trans-1,3-Dichloropropene	mg/kg	0.0226	0.0262	90.0		70-135	15.0	20	WG539511
Trichloroethene	mg/kg	0.0233	0.0260	93.0		71-126	10.8	20	WG539511
Trichlorofluoromethane	mg/kg	0.0267	0.0285	107.		52-147	6.50	20	WG539511
Vinyl chloride	mg/kg	0.0252	0.0273	101.		50-151	8.28	20	WG539511
Xylenes, Total	mg/kg	0.0706	0.0753	94.0		74-127	6.49	20	WG539511
4-Bromofluorobenzene				99.51		59-140			WG539511
Dibromofluoromethane				104.4		63-139			WG539511
Toluene-d8				98.26		84-116			WG539511
a,a,a-Trifluorotoluene				98.97		80-118			WG539511
Specific Conductance	umhos/	560.	560.	101.		85-115	0	20	WG539561
TPH (GC/FID) Low Fraction	mg/kg	5.80	5.77	105.		67-135	0.450	20	WG539506
a,a,a-Trifluorotoluene(FID)				111.0		59-128			WG539506
pH	su	6.30	6.30	100.		97.98-102.02	0	20	WG539718
1-Methylnaphthalene	mg/kg	0.0240	0.0209	73.0		41-110	14.1	24	WG539568
2-Chloronaphthalene	mg/kg	0.0243	0.0210	74.0		43-109	14.4	21	WG539568
2-Methylnaphthalene	mg/kg	0.0231	0.0204	70.0		38-104	12.6	24	WG539568
Acenaphthene	mg/kg	0.0250	0.0221	76.0		48-103	12.3	20	WG539568
Acenaphthylene	mg/kg	0.0253	0.0225	77.0		43-106	11.9	20	WG539568
Anthracene	mg/kg	0.0264	0.0233	80.0		51-110	12.3	22	WG539568
Benzo(a)anthracene	mg/kg	0.0293	0.0249	89.0		38-126	16.4	20	WG539568
Benzo(a)pyrene	mg/kg	0.0266	0.0229	81.0		47-118	15.0	20	WG539568
Benzo(b)fluoranthene	mg/kg	0.0295	0.0274	89.0		47-118	7.19	29	WG539568
Benzo(g,h,i)perylene	mg/kg	0.0327	0.0277	99.0		40-125	16.5	20	WG539568
Benzo(k)fluoranthene	mg/kg	0.0279	0.0223	85.0		45-121	22.4	31	WG539568
Chrysene	mg/kg	0.0247	0.0225	75.0		35-135	9.27	20	WG539568

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L519783

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

Tax I.D. 62-0814289

Est. 1970

June 16, 2011

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Dibenz(a,h)anthracene	mg/kg	0.0308	0.0263	93.0	41-124	15.7	20	WG539568
Fluoranthene	mg/kg	0.0277	0.0238	84.0	50-114	15.2	20	WG539568
Fluorene	mg/kg	0.0261	0.0234	79.0	49-109	11.1	19	WG539568
Indeno(1,2,3-cd)pyrene	mg/kg	0.0309	0.0264	94.0	40-126	15.6	20	WG539568
Naphthalene	mg/kg	0.0248	0.0212	75.0	36-100	15.6	24	WG539568
Phenanthrene	mg/kg	0.0282	0.0238	85.0	46-108	17.0	21	WG539568
Pyrene	mg/kg	0.0264	0.0226	80.0	30-136	15.6	20	WG539568
2-Fluorobiphenyl				71.57	33-114			WG539568
Nitrobenzene-d5				65.90	21-120			WG539568
p-Terphenyl-d14				73.75	18-142			WG539568

TPH (GC/FID) High Fraction	ppm	49.4	50.7	82.0	50-150	2.51	25	WG539694
o-Terphenyl				66.51	50-150			WG539694

Chromium,Hexavalent	mg/kg	120.	120.	91.0	50-150	0	20	WG539674
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Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
1,1,1-Trichloroethane	mg/kg	0.147	0	.025	117.	23-147	L519783-02	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	0.108	0	.025	86.6	18-150	L519783-02	WG539511
1,1,2-Trichloroethane	mg/kg	0.120	0	.025	96.2	35-140	L519783-02	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.179	0	.025	143.	10-145	L519783-02	WG539511
1,1-Dichloroethane	mg/kg	0.142	0	.025	113.	24-148	L519783-02	WG539511
1,1-Dichloroethene	mg/kg	0.167	0	.025	133.	10-149	L519783-02	WG539511
1,2,3-Trichlorobenzene	mg/kg	0.0695	0	.025	55.6	10-129	L519783-02	WG539511
1,2,4-Trichlorobenzene	mg/kg	0.0789	0	.025	63.1	10-119	L519783-02	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	0.136	0	.025	109.	19-145	L519783-02	WG539511
1,2-Dibromoethane	mg/kg	0.119	0	.025	94.8	24-145	L519783-02	WG539511
1,2-Dichlorobenzene	mg/kg	0.113	0	.025	90.5	12-130	L519783-02	WG539511
1,2-Dichloroethane	mg/kg	0.127	0	.025	102.	21-155	L519783-02	WG539511
1,2-Dichloropropane	mg/kg	0.119	0	.025	95.0	28-144	L519783-02	WG539511
1,3-Dichlorobenzene	mg/kg	0.0957	0	.025	76.6	10-129	L519783-02	WG539511
1,4-Dichlorobenzene	mg/kg	0.118	0	.025	94.4	10-121	L519783-02	WG539511
2-Butanone (MEK)	mg/kg	0.697	0	.125	112.	21-143	L519783-02	WG539511
2-Hexanone	mg/kg	0.692	0	.125	111.	22-151	L519783-02	WG539511
4-Methyl-2-pentanone (MIBK)	mg/kg	0.688	0	.125	110.	31-151	L519783-02	WG539511
Acetone	mg/kg	0.749	0	.125	120.	13-158	L519783-02	WG539511
Benzene	mg/kg	0.135	0	.025	108.	16-143	L519783-02	WG539511
Bromochloromethane	mg/kg	0.131	0	.025	104.	25-152	L519783-02	WG539511
Bromodichloromethane	mg/kg	0.118	0	.025	94.5	27-139	L519783-02	WG539511
Bromoform	mg/kg	0.0966	0	.025	77.3	21-144	L519783-02	WG539511
Bromomethane	mg/kg	0.140	0	.025	112.	0-180	L519783-02	WG539511
Carbon disulfide	mg/kg	0.153	0	.025	122.	10-156	L519783-02	WG539511
Carbon tetrachloride	mg/kg	0.149	0	.025	119.	12-149	L519783-02	WG539511
Chlorobenzene	mg/kg	0.113	0	.025	90.3	17-134	L519783-02	WG539511
Chlorodibromomethane	mg/kg	0.118	0	.025	94.8	28-147	L519783-02	WG539511
Chloroethane	mg/kg	0.138	0	.025	111.	0-172	L519783-02	WG539511
Chloroform	mg/kg	0.138	0	.025	111.	28-138	L519783-02	WG539511
Chloromethane	mg/kg	0.126	0	.025	100.	10-158	L519783-02	WG539511
cis-1,2-Dichloroethene	mg/kg	0.133	0	.025	107.	21-147	L519783-02	WG539511
cis-1,3-Dichloropropene	mg/kg	0.122	0	.025	97.4	17-145	L519783-02	WG539511
Dichlorodifluoromethane	mg/kg	0.133	0	.025	106.	0-192	L519783-02	WG539511
Ethylbenzene	mg/kg	0.118	0	.025	94.4	12-137	L519783-02	WG539511
Isopropylbenzene	mg/kg	0.126	0	.025	100.	14-134	L519783-02	WG539511
m&p-Xylene	mg/kg	0.234	0	.05	93.6	10-135	L519783-02	WG539511
Methyl tert-butyl ether	mg/kg	0.146	0	.025	117.	21-157	L519783-02	WG539511

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Est. 1970

June 16, 2011

Analyte	Units	MS Res	Matrix Spike			Limit	Ref Samp	Batch
			Ref Res	TV	% Rec			
Methylene Chloride	mg/kg	0.140	0	.025	112.	12-149	L519783-02	WG539511
n-Hexane	mg/kg	0.0926	0	.025	74.1	10-129	L519783-02	WG539511
o-Xylene	mg/kg	0.114	0	.025	91.0	14-140	L519783-02	WG539511
Styrene	mg/kg	0.0819	0	.025	65.5	10-140	L519783-02	WG539511
Tetrachloroethene	mg/kg	0.119	0	.025	95.2	10-131	L519783-02	WG539511
Toluene	mg/kg	0.122	0	.025	97.6	12-136	L519783-02	WG539511
trans-1,2-Dichloroethene	mg/kg	0.140	0	.025	112.	10-143	L519783-02	WG539511
trans-1,3-Dichloropropene	mg/kg	0.116	0	.025	93.1	16-147	L519783-02	WG539511
Trichloroethene	mg/kg	0.129	0	.025	103.	10-155	L519783-02	WG539511
Trichlorofluoromethane	mg/kg	0.155	0	.025	124.	10-154	L519783-02	WG539511
Vinyl chloride	mg/kg	0.140	0	.025	112.	10-159	L519783-02	WG539511
Xylenes, Total	mg/kg	0.348	0	.075	92.8	10-138	L519783-02	WG539511
4-Bromofluorobenzene					89.10	59-140		WG539511
Dibromofluoromethane					109.7	63-139		WG539511
Toluene-d8					97.03	84-116		WG539511
a,a,a-Trifluorotoluene					96.67	80-118		WG539511
TPH (GC/FID) Low Fraction	mg/kg	22.0	0	5.5	80.2	55-109	L519637-08	WG539506
a,a,a-Trifluorotoluene(FID)					106.3	59-128		WG539506
Arsenic	mg/kg	52.3	3.85	50	96.9	75-125	L519756-07	WG539592
Barium	mg/kg	85.8	38.4	50	94.8	75-125	L519756-07	WG539592
Cadmium	mg/kg	47.5	0.320	50	94.4	75-125	L519756-07	WG539592
Chromium	mg/kg	58.4	9.85	50	97.1	75-125	L519756-07	WG539592
Copper	mg/kg	59.1	7.95	50	102.	75-125	L519756-07	WG539592
Lead	mg/kg	97.8	47.7	50	100.	75-125	L519756-07	WG539592
Nickel	mg/kg	55.8	6.47	50	98.7	75-125	L519756-07	WG539592
Selenium	mg/kg	52.9	6.25	50	93.3	75-125	L519756-07	WG539592
Silver	mg/kg	49.5	0.0236	50	99.0	75-125	L519756-07	WG539592
Zinc	mg/kg	81.5	34.0	50	95.0	75-125	L519756-07	WG539592
Mercury	mg/kg	0.296	0.0390	.25	103.	70-130	L519741-03	WG539584
Mercury	mg/kg	0.250	0.0160	.25	93.6	70-130	L519815-01	WG539585
1-Methylnaphthalene	mg/kg	0.0214	0	.033	64.8	19-131	L519830-01	WG539568
2-Chloronaphthalene	mg/kg	0.0232	0	.033	70.4	38-117	L519830-01	WG539568
2-Methylnaphthalene	mg/kg	0.0232	0	.033	70.2	18-125	L519830-01	WG539568
Acenaphthene	mg/kg	0.0249	0	.033	75.6	31-120	L519830-01	WG539568
Acenaphthylene	mg/kg	0.0252	0	.033	76.3	34-116	L519830-01	WG539568
Anthracene	mg/kg	0.0253	0	.033	76.6	32-131	L519830-01	WG539568
Benzo(a)anthracene	mg/kg	0.0332	0.00640	.033	81.1	32-131	L519830-01	WG539568
Benzo(a)pyrene	mg/kg	0.0281	0.00620	.033	66.3	28-130	L519830-01	WG539568
Benzo(b)fluoranthene	mg/kg	0.0354	0.00730	.033	85.0	37-130	L519830-01	WG539568
Benzo(g,h,i)perylene	mg/kg	0.0193	0	.033	58.6	10-134	L519830-01	WG539568
Benzo(k)fluoranthene	mg/kg	0.0257	0	.033	77.8	31-129	L519830-01	WG539568
Chrysene	mg/kg	0.0244	0	.033	74.0	25-137	L519830-01	WG539568
Dibenz(a,h)anthracene	mg/kg	0.0197	0	.033	59.6	20-134	L519830-01	WG539568
Fluoranthene	mg/kg	0.0334	0.00900	.033	73.9	27-138	L519830-01	WG539568
Fluorene	mg/kg	0.0261	0	.033	79.2	26-136	L519830-01	WG539568
Indeno(1,2,3-cd)pyrene	mg/kg	0.0199	0	.033	60.3	16-135	L519830-01	WG539568
Naphthalene	mg/kg	0.0239	0	.033	72.4	22-121	L519830-01	WG539568
Phenanthrene	mg/kg	0.0299	0	.033	90.6	27-133	L519830-01	WG539568
Pyrene	mg/kg	0.0283	0.00730	.033	63.6	22-133	L519830-01	WG539568

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
2-Fluorobiphenyl					71.25	33-114		
Nitrobenzene-d5					68.19	21-120		
p-Terphenyl-d14					66.68	18-142		
Chromium,Hexavalent	mg/kg	0	0	20	0*	50-150	L519501-04	WG539674

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
1,1,1-Trichloroethane	mg/kg	0.136	0.147	108.	23-147	7.82	32	L519783-02	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	0.0938	0.108	75.0	18-150	14.4	33	L519783-02	WG539511
1,1,2-Trichloroethane	mg/kg	0.106	0.120	85.0	35-140	12.3	29	L519783-02	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.158	0.179	126.	10-145	12.7	35	L519783-02	WG539511
1,1-Dichloroethane	mg/kg	0.130	0.142	104.	24-148	8.91	31	L519783-02	WG539511
1,1-Dichloroethene	mg/kg	0.146	0.167	117.	10-149	13.1	34	L519783-02	WG539511
1,2,3-Trichlorobenzene	mg/kg	0.0587	0.0695	47.0	10-129	16.9	43	L519783-02	WG539511
1,2,4-Trichlorobenzene	mg/kg	0.0681	0.0789	54.4	10-119	14.7	44	L519783-02	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	0.122	0.136	97.4	19-145	11.2	35	L519783-02	WG539511
1,2-Dibromoethane	mg/kg	0.104	0.119	83.0	24-145	13.2	31	L519783-02	WG539511
1,2-Dichlorobenzene	mg/kg	0.102	0.113	81.9	12-130	9.92	35	L519783-02	WG539511
1,2-Dichloroethane	mg/kg	0.116	0.127	93.1	21-155	8.95	29	L519783-02	WG539511
1,2-Dichloropropane	mg/kg	0.109	0.119	87.5	28-144	8.21	30	L519783-02	WG539511
1,3-Dichlorobenzene	mg/kg	0.0826	0.0957	66.1	10-129	14.8	38	L519783-02	WG539511
1,4-Dichlorobenzene	mg/kg	0.108	0.118	86.7	10-121	8.50	36	L519783-02	WG539511
2-Butanone (MEK)	mg/kg	0.621	0.697	99.4	21-143	11.5	37	L519783-02	WG539511
2-Hexanone	mg/kg	0.586	0.692	93.7	22-151	16.6	38	L519783-02	WG539511
4-Methyl-2-pentanone (MIBK)	mg/kg	0.596	0.688	95.4	31-151	14.2	36	L519783-02	WG539511
Acetone	mg/kg	0.650	0.749	104.	13-158	14.2	34	L519783-02	WG539511
Benzene	mg/kg	0.122	0.135	97.8	16-143	9.69	31	L519783-02	WG539511
Bromochloromethane	mg/kg	0.120	0.131	95.9	25-152	8.57	29	L519783-02	WG539511
Bromodichloromethane	mg/kg	0.109	0.118	87.1	27-139	8.16	30	L519783-02	WG539511
Bromoform	mg/kg	0.0831	0.0966	66.5	21-144	15.0	34	L519783-02	WG539511
Bromomethane	mg/kg	0.130	0.140	104.	0-180	7.38	41	L519783-02	WG539511
Carbon disulfide	mg/kg	0.136	0.153	108.	10-156	11.9	38	L519783-02	WG539511
Carbon tetrachloride	mg/kg	0.134	0.149	107.	12-149	10.6	34	L519783-02	WG539511
Chlorobenzene	mg/kg	0.0986	0.113	78.9	17-134	13.5	34	L519783-02	WG539511
Chlorodibromomethane	mg/kg	0.103	0.118	82.7	28-147	13.6	32	L519783-02	WG539511
Chloroethane	mg/kg	0.126	0.138	101.	0-172	9.42	38	L519783-02	WG539511
Chloroform	mg/kg	0.126	0.138	101.	28-138	9.10	30	L519783-02	WG539511
Chloromethane	mg/kg	0.115	0.126	92.2	10-158	8.68	35	L519783-02	WG539511
cis-1,2-Dichloroethene	mg/kg	0.122	0.133	97.8	21-147	8.68	31	L519783-02	WG539511
cis-1,3-Dichloropropene	mg/kg	0.111	0.122	89.0	17-145	9.01	32	L519783-02	WG539511
Dichlorodifluoromethane	mg/kg	0.117	0.133	93.4	0-192	12.9	38	L519783-02	WG539511
Ethylbenzene	mg/kg	0.103	0.118	82.5	12-137	13.4	36	L519783-02	WG539511
Isopropylbenzene	mg/kg	0.109	0.126	87.4	14-134	14.1	37	L519783-02	WG539511
m&p-Xylene	mg/kg	0.206	0.234	82.2	10-135	13.0	37	L519783-02	WG539511
Methyl tert-butyl ether	mg/kg	0.134	0.146	107.	21-157	8.61	31	L519783-02	WG539511
Methylene Chloride	mg/kg	0.126	0.140	101.	12-149	9.91	31	L519783-02	WG539511
n-Hexane	mg/kg	0.0804	0.0926	64.3	10-129	14.2	42	L519783-02	WG539511
o-Xylene	mg/kg	0.100	0.114	80.0	14-140	12.8	35	L519783-02	WG539511
Styrene	mg/kg	0.0710	0.0819	56.8	10-140	14.3	35	L519783-02	WG539511
Tetrachloroethene	mg/kg	0.103	0.119	82.0	10-131	14.8	35	L519783-02	WG539511
Toluene	mg/kg	0.109	0.122	87.4	12-136	11.0	32	L519783-02	WG539511
trans-1,2-Dichloroethene	mg/kg	0.125	0.140	100.	10-143	11.3	33	L519783-02	WG539511
trans-1,3-Dichloropropene	mg/kg	0.106	0.116	84.7	16-147	9.47	32	L519783-02	WG539511
Trichloroethene	mg/kg	0.116	0.129	93.1	10-155	10.2	33	L519783-02	WG539511
Trichlorofluoromethane	mg/kg	0.141	0.155	113.	10-154	9.62	32	L519783-02	WG539511
Vinyl chloride	mg/kg	0.125	0.140	99.7	10-159	11.9	36	L519783-02	WG539511
Xylenes, Total	mg/kg	0.306	0.348	81.5	10-138	12.9	36	L519783-02	WG539511
4-Bromofluorobenzene				85.48	59-140				WG539511

* Performance of this Analyte is outside of established criteria.
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June 16, 2011

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
Dibromofluoromethane				106.0	63-139					
Toluene-d8				96.95	84-116					
a,a,a-Trifluorotoluene				95.61	80-118					
TPH (GC/FID) Low Fraction	mg/kg	27.6	22.0	100.	55-109	22.5*	20	L519637-08		WG539506
a,a,a-Trifluorotoluene(FID)				108.3	59-128					WG539506
Arsenic	mg/kg	49.6	52.3	91.5	75-125	5.30	20	L519756-07		WG539592
Barium	mg/kg	78.8	85.8	80.8	75-125	8.51	20	L519756-07		WG539592
Cadmium	mg/kg	45.2	47.5	89.8	75-125	4.96	20	L519756-07		WG539592
Chromium	mg/kg	56.0	58.4	92.3	75-125	4.20	20	L519756-07		WG539592
Copper	mg/kg	58.1	59.1	100.	75-125	1.71	20	L519756-07		WG539592
Lead	mg/kg	130.	97.8	165.*	75-125	28.3*	20	L519756-07		WG539592
Nickel	mg/kg	53.2	55.8	93.5	75-125	4.77	20	L519756-07		WG539592
Selenium	mg/kg	52.0	52.9	91.5	75-125	1.72	20	L519756-07		WG539592
Silver	mg/kg	48.5	49.5	97.0	75-125	2.04	20	L519756-07		WG539592
Zinc	mg/kg	79.2	81.5	90.4	75-125	2.86	20	L519756-07		WG539592
Mercury	mg/kg	0.263	0.296	89.6	70-130	11.8	20	L519741-03		WG539584
Mercury	mg/kg	0.240	0.250	89.6	70-130	4.08	20	L519815-01		WG539585
1-Methylnaphthalene	mg/kg	0.0224	0.0214	68.0	19-131	4.76	30	L519830-01		WG539568
2-Chloronaphthalene	mg/kg	0.0232	0.0232	70.4	38-117	0.0723	26	L519830-01		WG539568
2-Methylnaphthalene	mg/kg	0.0233	0.0232	70.5	18-125	0.421	29	L519830-01		WG539568
Acenaphthene	mg/kg	0.0236	0.0249	71.6	31-120	5.35	30	L519830-01		WG539568
Acenaphthylene	mg/kg	0.0249	0.0252	75.5	34-116	1.03	29	L519830-01		WG539568
Anthracene	mg/kg	0.0255	0.0253	77.2	32-131	0.798	26	L519830-01		WG539568
Benzo(a)anthracene	mg/kg	0.0385	0.0332	97.4	32-131	14.9	31	L519830-01		WG539568
Benzo(a)pyrene	mg/kg	0.0323	0.0281	79.0	28-130	13.9	28	L519830-01		WG539568
Benzo(b)fluoranthene	mg/kg	0.0393	0.0354	96.9	37-130	10.5	41	L519830-01		WG539568
Benzo(g,h,i)perylene	mg/kg	0.0189	0.0193	57.2	10-134	2.37	26	L519830-01		WG539568
Benzo(k)fluoranthene	mg/kg	0.0248	0.0257	75.2	31-129	3.38	42	L519830-01		WG539568
Chrysene	mg/kg	0.0261	0.0244	78.9	25-137	6.42	22	L519830-01		WG539568
Dibenz(a,h)anthracene	mg/kg	0.0190	0.0197	57.6	20-134	3.41	25	L519830-01		WG539568
Fluoranthene	mg/kg	0.0415	0.0334	98.3	27-138	21.6	35	L519830-01		WG539568
Fluorene	mg/kg	0.0271	0.0261	82.1	26-136	3.60	30	L519830-01		WG539568
Indeno(1,2,3-cd)pyrene	mg/kg	0.0197	0.0199	59.8	16-135	0.853	26	L519830-01		WG539568
Naphthalene	mg/kg	0.0249	0.0239	75.6	22-121	4.20	30	L519830-01		WG539568
Phenanthrene	mg/kg	0.0332	0.0299	100.	27-133	10.3	36	L519830-01		WG539568
Pyrene	mg/kg	0.0351	0.0283	84.3	22-133	21.5	33	L519830-01		WG539568
2-Fluorobiphenyl				69.60	33-114					WG539568
Nitrobenzene-d5				66.50	21-120					WG539568
p-Terphenyl-d14				64.67	18-142					WG539568
Chromium,Hexavalent	mg/kg	0	0	0*	50-150	0	20	L519501-04		WG539674

Batch number /Run number / Sample number cross reference

WG539516: R1717549: L519783-01 02 03 04 05
 WG539511: R1717552: L519783-01 02 03 04 05
 WG539561: R1717770: L519783-01 02 03 04 05
 WG539506: R1718452: L519783-01 02 03 04 05
 WG539592: R1719111: L519783-01 02 03 04 05

* 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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WG539584: R1719395: L519783-01 02 03 04
WG539585: R1719396: L519783-05
WG539718: R1719397: L519783-01 02 03 04 05
WG539568: R1719432: L519783-01 02 03 04 05
WG539694: R1719950: L519783-01 02 03 04 05
WG539716: R1720949: L519783-01 02 03 04 05
WG539674: R1722909: L519783-01 02 03 04 05

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
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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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Chris Hines / Jake Harris
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Friday July 22, 2011

Report Number: L526470

Samples Received: 07/16/11

Client Project: G09

Description: G09

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

Entire Report Reviewed By:

Jared Willis, ESC Representative

Laboratory Certification Numbers

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

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

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

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REPORT OF ANALYSIS

July 22, 2011

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

Date Received : July 16, 2011
Description : G09
Sample ID : G09-PITX-EP-SC.BOTTOM-071411
Collected By : Robert Stockton
Collection Date : 07/14/11 14:37

ESC Sample # : L526470-01
Site ID : G09
Project # : G09

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

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: 07/22/11 09:33 Printed: 07/22/11 09:49
L526470-01 (DRO) - Previous run also had low IS/SURR recovery. Matrix effect.



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REPORT OF ANALYSIS

July 22, 2011

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

Date Received : July 16, 2011
 Description : G09
 Sample ID : G09-PITX-EP-NC.BOTTOM-071411
 Collected By : Robert Stockton
 Collection Date : 07/14/11 14:49

ESC Sample # : L526470-02
 Site ID : G09
 Project # : G09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	07/19/11	5
TPH (GC/FID) Low Fraction	36.	0.50	mg/kg	GRO	07/19/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	95.5		% Rec.	8021/8015	07/19/11	5
a,a,a-Trifluorotoluene(PID)	99.5		% Rec.	8021/8015	07/19/11	5
TPH (GC/FID) High Fraction	1300	80.	mg/kg	3546/DRO	07/20/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	07/20/11	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/22/11 09:33 Printed: 07/22/11 09:49



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July 22, 2011

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Date Received : July 16, 2011
Description : G09
Sample ID : G09-PITX-WP-E.BOTTOM-071411
Collected By : Robert Stockton
Collection Date : 07/14/11 15:00

ESC Sample # : L526470-03
Site ID : G09
Project # : G09

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

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 07/22/11 09:33 Printed: 07/22/11 09:49



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REPORT OF ANALYSIS

July 22, 2011

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ESC Sample # : L526470-04

Date Received : July 16, 2011
Description : G09

Site ID : G09

Sample ID : G09-PITX-WP-W.BOTTOM-071411

Project # : G09

Collected By : Robert Stockton
Collection Date : 07/14/11 15:11

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

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: 07/22/11 09:33 Printed: 07/22/11 09:49

L526470-04 (DRO) - Previous run also had low SURR recovery. Matrix effect.



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REPORT OF ANALYSIS

July 22, 2011

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Date Received : July 16, 2011
Description : G09
Sample ID : G09-PITX-SPOILS-071411
Collected By : Robert Stockton
Collection Date : 07/14/11 15:37

ESC Sample # : L526470-05
Site ID : G09
Project # : G09

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

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: 07/22/11 09:33 Printed: 07/22/11 09:50
L526470-05 (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
L526470-01	WG546407	SAMP	o-Terphenyl	R1773470	J2
L526470-02	WG546153	SAMP	o-Terphenyl	R1770350	J7
L526470-03	WG546153	SAMP	o-Terphenyl	R1770350	J7
L526470-04	WG546509	SAMP	o-Terphenyl	R1776730	J2
L526470-05	WG546509	SAMP	o-Terphenyl	R1776730	J2

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

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
07/22/11 at 09:50:00

TSR Signing Reports: 358
R3 - Rush: Two Day

TPH = GRO/DRO

Sample: L526470-01 Account: ENCANACO Received: 07/16/11 09:00 Due Date: 07/22/11 00:00 RPT Date: 07/22/11 09:33

Sample: L526470-02 Account: ENCANACO Received: 07/16/11 09:00 Due Date: 07/22/11 00:00 RPT Date: 07/22/11 09:33

Sample: L526470-03 Account: ENCANACO Received: 07/16/11 09:00 Due Date: 07/22/11 00:00 RPT Date: 07/22/11 09:33

Sample: L526470-04 Account: ENCANACO Received: 07/16/11 09:00 Due Date: 07/22/11 00:00 RPT Date: 07/22/11 09:33

Sample: L526470-05 Account: ENCANACO Received: 07/16/11 09:00 Due Date: 07/22/11 00:00 RPT Date: 07/22/11 09:33



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July 22, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG546134	07/18/11 20:00
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG546134	07/18/11 20:00
a,a,a-Trifluorotoluene(FID)		% Rec.	96.47	59-128	WG546134	07/18/11 20:00
a,a,a-Trifluorotoluene(PID)		% Rec.	99.62	54-144	WG546134	07/18/11 20:00
TPH (GC/FID) High Fraction	< 4	ppm			WG546153	07/19/11 11:08
o-Terphenyl		% Rec.	75.14	50-150	WG546153	07/19/11 11:08
Benzene	< .0005	mg/kg			WG546284	07/19/11 17:35
a,a,a-Trifluorotoluene(FID)		% Rec.	102.6	59-128	WG546284	07/19/11 17:35
a,a,a-Trifluorotoluene(PID)		% Rec.	106.3	54-144	WG546284	07/19/11 17:35
TPH (GC/FID) High Fraction	< 4	ppm			WG546407	07/20/11 14:04
o-Terphenyl		% Rec.	69.52	50-150	WG546407	07/20/11 14:04
TPH (GC/FID) High Fraction	< 4	ppm			WG546509	07/21/11 18:52
o-Terphenyl		% Rec.	83.44	50-150	WG546509	07/21/11 18:52

Analyte	Units	Laboratory Control		% Rec	Limit	Batch
		Known Val	Sample Result			
Benzene	mg/kg	.05	0.0467	93.3	76-113	WG546134
a,a,a-Trifluorotoluene(PID)				99.09	54-144	WG546134
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.94	108.	67-135	WG546134
a,a,a-Trifluorotoluene(FID)				102.1	59-128	WG546134
TPH (GC/FID) High Fraction	ppm	60	47.3	78.8	50-150	WG546153
o-Terphenyl				60.46	50-150	WG546153
Benzene	mg/kg	.05	0.0539	108.	76-113	WG546284
a,a,a-Trifluorotoluene(PID)				103.6	54-144	WG546284
TPH (GC/FID) High Fraction	ppm	60	49.2	82.0	50-150	WG546407
o-Terphenyl				69.06	50-150	WG546407
TPH (GC/FID) High Fraction	ppm	60	54.4	90.7	50-150	WG546509
o-Terphenyl				69.51	50-150	WG546509

Analyte	Units	Laboratory Control			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0436	0.0467	87.0	76-113	6.71	20	WG546134
a,a,a-Trifluorotoluene(PID)				99.36	54-144			WG546134
TPH (GC/FID) Low Fraction	mg/kg	5.87	5.94	107.	67-135	1.07	20	WG546134
a,a,a-Trifluorotoluene(FID)				101.8	59-128			WG546134
TPH (GC/FID) High Fraction	ppm	52.2	47.3	87.0	50-150	9.87	20	WG546153
o-Terphenyl				68.33	50-150			WG546153

* 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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Chris Hines / Jake Harris
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L526470

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

July 22, 2011

Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
Benzene	mg/kg	0.0515	0.0539	103.		76-113	4.55	20	WG546284
a,a,a-Trifluorotoluene(PID)				104.8		54-144			WG546284
TPH (GC/FID) High Fraction	ppm	43.7	49.2	73.0		50-150	11.9	25	WG546407
o-Terphenyl				58.95		50-150			WG546407
TPH (GC/FID) High Fraction	ppm	56.7	54.4	94.0		50-150	4.14	25	WG546509
o-Terphenyl				72.23		50-150			WG546509

Analyte	Units	MS Res	Matrix Spike			Limit	Ref Samp	Batch
			Ref Res	TV	% Rec			
Benzene	mg/kg	0.249	0.00320	.05	98.4	32-137	L526470-04	WG546134
a,a,a-Trifluorotoluene(PID)					98.76	54-144		WG546134
TPH (GC/FID) Low Fraction	mg/kg	23.4	0.610	5.5	83.0	55-109	L526470-04	WG546134
a,a,a-Trifluorotoluene(FID)					99.32	59-128		WG546134
Benzene	mg/kg	0.263	0	.05	105.	32-137	L526619-01	WG546284
a,a,a-Trifluorotoluene(PID)					104.9	54-144		WG546284
TPH (GC/FID) High Fraction	ppm	98.8	40.5	60	97.2	50-150	L526217-01	WG546153
o-Terphenyl					63.26	50-150		WG546153
TPH (GC/FID) High Fraction	ppm	576.	400.	60	58.6	50-150	L526469-01	WG546509
o-Terphenyl					36.64*	50-150		WG546509

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.230	0.249	90.5	32-137	8.22	39	L526470-04	WG546134
a,a,a-Trifluorotoluene(PID)				99.23	54-144				WG546134
TPH (GC/FID) Low Fraction	mg/kg	22.1	23.4	78.3	55-109	5.65	20	L526470-04	WG546134
a,a,a-Trifluorotoluene(FID)				98.69	59-128				WG546134
Benzene	mg/kg	0.228	0.263	91.1	32-137	14.4	39	L526619-01	WG546284
a,a,a-Trifluorotoluene(PID)				104.1	54-144				WG546284
TPH (GC/FID) High Fraction	ppm	103.	98.8	103.	50-150	3.67	20	L526217-01	WG546153
o-Terphenyl				62.50	50-150				WG546153
TPH (GC/FID) High Fraction	ppm	577.	576.	59.0	50-150	0.251	25	L526469-01	WG546509
o-Terphenyl				47.15*	50-150				WG546509

Batch number /Run number / Sample number cross reference

WG546134: R1769910: L526470-01 02 03 04 05
 WG546153: R1770350: L526470-02 03
 WG546284: R1771330: L526470-04
 WG546407: R1773470: L526470-01
 WG546509: R1776730: L526470-04 05

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

* Performance of this Analyte is outside of established criteria.

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July 22, 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.



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

Report Summary

Friday August 12, 2011

Report Number: L530211


Samples Received: 08/10/11

Client Project:

Description: G09 Pit Closure

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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REPORT OF ANALYSIS

August 12, 2011

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

ESC Sample # : L530211-01

Date Received : August 10, 2011
Description : G09 Pit Closure

Site ID : G09

Sample ID : G09-PITX-SPOIL-080911 4-6IN

Project # :

Collected By : Brennen Graff
Collection Date : 08/09/11 11:24

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	08/10/11	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	96.3		% Rec.	602/8015	08/10/11	5
TPH (GC/FID) High Fraction	1700	80.	mg/kg	3546/DRO	08/12/11	20
Surrogate recovery(%) o-Terphenyl	0.00		% Rec.	3546/DRO	08/12/11	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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Reported: 08/12/11 14:06 Printed: 08/12/11 14:06

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L530211-01	WG549763	SAMP	o-Terphenyl	R1811890	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

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
08/12/11 at 14:06:34

TSR Signing Reports: 358
R3 - Rush: Two Day

Sample: L530211-01 Account: ENCANACO Received: 08/10/11 09:00 Due Date: 08/12/11 00:00 RPT Date: 08/12/11 14:06



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

Parachute, CO 81635

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Est. 1970

August 12, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG549816	08/10/11 15:34
a,a,a-Trifluorotoluene(FID)		% Rec.	98.13	59-128	WG549816	08/10/11 15:34
TPH (GC/FID) High Fraction	< 4	ppm			WG549763	08/11/11 15:43
o-Terphenyl		% Rec.	65.13	50-150	WG549763	08/11/11 15:43

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.45	99.1	67-135	WG549816
a,a,a-Trifluorotoluene(FID)				105.0	59-128	WG549816
TPH (GC/FID) High Fraction	ppm	60	47.6	79.3	50-150	WG549763
o-Terphenyl				72.80	50-150	WG549763

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
TPH (GC/FID) Low Fraction	mg/kg	5.99	5.45	109.	67-135	9.39	20	WG549816
a,a,a-Trifluorotoluene(FID)				105.6	59-128			WG549816
TPH (GC/FID) High Fraction	ppm	49.4	47.6	82.0	50-150	3.87	25	WG549763
o-Terphenyl				74.82	50-150			WG549763

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
TPH (GC/FID) Low Fraction	mg/kg	24.6	0	5.5	89.5	55-109	L530126-01	WG549816
a,a,a-Trifluorotoluene(FID)					101.6	59-128		WG549816
TPH (GC/FID) High Fraction	ppm	40.5	0	60	67.4	50-150	L529828-01	WG549763
o-Terphenyl					61.16	50-150		WG549763

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
TPH (GC/FID) Low Fraction	mg/kg	22.4	24.6	81.6	55-109	9.21	20	L530126-01	WG549816
a,a,a-Trifluorotoluene(FID)				100.1	59-128				WG549816
TPH (GC/FID) High Fraction	ppm	45.0	40.5	74.9	50-150	10.5	25	L529828-01	WG549763
o-Terphenyl				68.29	50-150				WG549763

Batch number /Run number / Sample number cross reference

WG549816: R1810457: L530211-01
WG549763: R1811890: L530211-01

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

Report Summary

Thursday September 01, 2011

Report Number: L533395

Samples Received: 08/30/11

Client Project:

Description: G09-Pit X

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

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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

September 01, 2011

Date Received : August 30, 2011
 Description : G09-Pit X
 Sample ID : G09-PITX-SPOIL-082511
 Collected By : Brennan Graff
 Collection Date : 08/25/11 12:28

ESC Sample # : L533395-01
 Site ID : G09
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Corrosivity	Non-Corrosive			9045D	08/31/11	1
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	08/31/11	1
Chromium, Trivalent	30.	0.50	mg/kg	Calc.	08/31/11	1
Ignitability	See Footnote		Deg. F	D93/1010A	08/31/11	1
ORP	60.		mV	2580	08/31/11	1
pH	8.1		su	9045D	08/31/11	1
Paint Filter Test	See Footnote		%	9095B	09/01/11	1
Reactive CN (SW846 7.3.3.2)	BDL	0.125	mg/kg	9012B	09/01/11	1
Reactive Sulf. (SW846 7.3.4.1)	BDL	25.	mg/kg	9034/9030B	08/30/11	1
Sodium Adsorption Ratio	16.			Calc.	08/31/11	1
Specific Conductance	2200		umhos/cm	9050AMod	08/31/11	1
Mercury	0.055	0.020	mg/kg	7471	08/31/11	1
Arsenic	8.6	1.0	mg/kg	6010B	08/31/11	1
Barium	2400	0.25	mg/kg	6010B	08/31/11	1
Cadmium	0.99	0.25	mg/kg	6010B	08/31/11	1
Chromium	30.	0.50	mg/kg	6010B	08/31/11	1
Copper	26.	1.0	mg/kg	6010B	08/31/11	1
Lead	18.	0.25	mg/kg	6010B	08/31/11	1
Nickel	20.	1.0	mg/kg	6010B	08/31/11	1
Selenium	1.4	1.0	mg/kg	6010B	08/31/11	1
Silver	BDL	0.50	mg/kg	6010B	08/31/11	1
Zinc	60.	1.5	mg/kg	6010B	08/31/11	1
Benzene	BDL	0.0025	mg/kg	8021/8015	08/30/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	08/30/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	08/30/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	08/30/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	08/30/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.1		% Rec.	8021/8015	08/30/11	5
a,a,a-Trifluorotoluene(PID)	99.4		% Rec.	8021/8015	08/30/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L533395-01 (IGNITABILITY) - Did not ignite @ 170f
 L533395-01 (PH) - 8.07@20.8c
 L533395-01 (PAINT) - Contains No Free Liquid



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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

September 01, 2011

Date Received : August 30, 2011
 Description : G09-Pit X
 Sample ID : G09-PITX-SPOIL-082511
 Collected By : Brennan Graff
 Collection Date : 08/25/11 12:28

ESC Sample # : L533395-01
 Site ID : G09
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	1100	20.	mg/kg	3546/DRO	08/31/11	5
Surrogate recovery(%) o-Terphenyl	64.7		% Rec.	3546/DRO	08/31/11	5
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Acenaphthene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Acenaphthylene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Benzo(a)anthracene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Benzo(a)pyrene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Benzo(b)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Benzo(g,h,i)perylene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Benzo(k)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Chrysene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Dibenz(a,h)anthracene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Fluoranthene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Fluorene	0.058	0.030	mg/kg	8270C-SIM	08/31/11	5
Indeno(1,2,3-cd)pyrene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Naphthalene	0.046	0.030	mg/kg	8270C-SIM	08/31/11	5
Phenanthrene	0.053	0.030	mg/kg	8270C-SIM	08/31/11	5
Pyrene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
1-Methylnaphthalene	0.057	0.030	mg/kg	8270C-SIM	08/31/11	5
2-Methylnaphthalene	0.14	0.030	mg/kg	8270C-SIM	08/31/11	5
2-Chloronaphthalene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Surrogate Recovery						
Nitrobenzene-d5	67.5		% Rec.	8270C-SIM	08/31/11	5
2-Fluorobiphenyl	61.7		% Rec.	8270C-SIM	08/31/11	5
p-Terphenyl-d14	64.9		% Rec.	8270C-SIM	08/31/11	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 09/01/11 16:52 Printed: 09/01/11 16:58
 L533395-01 (IGNITABILITY) - Did not ignite @ 170f
 L533395-01 (PH) - 8.07@20.8c
 L533395-01 (PAINT) - Contains No Free Liquid



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REPORT OF ANALYSIS

September 01, 2011

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

Date Received : August 30, 2011
 Description : G09-Pit X
 Sample ID : G09-PITX-SPOIL-082511
 Collected By : Brennan Graff
 Collection Date : 08/25/11 12:28

ESC Sample # : L533395-02
 Site ID : G09
 Project :

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	08/31/11 0700	MVE	1
Mercury	BDL	0.0010	mg/l	0.20	7470A	08/31/11 1657	MDC	1
Arsenic	BDL	0.050	mg/l	5.0	6010B	08/31/11 1802	ARF	1
Barium	0.78	0.15	mg/l	100	6010B	08/31/11 1802	ARF	1
Cadmium	BDL	0.050	mg/l	1.0	6010B	08/31/11 1802	ARF	1
Chromium	BDL	0.050	mg/l	5.0	6010B	08/31/11 1802	ARF	1
Lead	BDL	0.050	mg/l	5.0	6010B	08/31/11 1802	ARF	1
Selenium	BDL	0.050	mg/l	1.0	6010B	08/31/11 1802	ARF	1
Silver	BDL	0.050	mg/l	5.0	6010B	08/31/11 1802	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: 09/01/11 16:52 Printed: 09/01/11 16:58



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

September 01, 2011

Date Received : August 30, 2011
 Description : G09-Pit X
 Sample ID : G09-SPOILE-082511
 Collected By : Brennan Graff
 Collection Date : 08/25/11 12:59

ESC Sample # : L533395-03
 Site ID : G09
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Corrosivity	Non-Corrosive			9045D	08/31/11	1
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	08/31/11	1
Chromium, Trivalent	17.	0.50	mg/kg	Calc.	08/31/11	1
Ignitability	See Footnote		Deg. F	D93/1010A	08/31/11	1
ORP	57.		mV	2580	08/31/11	1
pH	7.9		su	9045D	08/31/11	1
Paint Filter Test	See Footnote		%	9095B	09/01/11	1
Reactive CN (SW846 7.3.3.2)	BDL	0.125	mg/kg	9012B	09/01/11	1
Reactive Sulf. (SW846 7.3.4.1)	BDL	25.	mg/kg	9034/9030B	08/30/11	1
Sodium Adsorption Ratio	12.			Calc.	08/31/11	1
Specific Conductance	1000		umhos/cm	9050AMod	08/31/11	1
Mercury	0.16	0.020	mg/kg	7471	08/31/11	1
Arsenic	2.6	1.0	mg/kg	6010B	08/31/11	1
Barium	5100	0.50	mg/kg	6010B	08/31/11	2
Cadmium	0.43	0.25	mg/kg	6010B	08/31/11	1
Chromium	17.	0.50	mg/kg	6010B	08/31/11	1
Copper	20.	1.0	mg/kg	6010B	08/31/11	1
Lead	16.	0.25	mg/kg	6010B	08/31/11	1
Nickel	7.8	1.0	mg/kg	6010B	08/31/11	1
Selenium	BDL	1.0	mg/kg	6010B	08/31/11	1
Silver	BDL	0.50	mg/kg	6010B	08/31/11	1
Zinc	36.	1.5	mg/kg	6010B	08/31/11	1
Benzene	BDL	0.0025	mg/kg	8021/8015	08/30/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	08/30/11	5
Ethylbenzene	0.0027	0.0025	mg/kg	8021/8015	08/30/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	08/30/11	5
TPH (GC/FID) Low Fraction	3.0	0.50	mg/kg	GRO	08/30/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	95.8		% Rec.	8021/8015	08/30/11	5
a,a,a-Trifluorotoluene(PID)	99.6		% Rec.	8021/8015	08/30/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L533395-03 (PAINT) - Contains No Free Liquid
 L533395-03 (SV8270PAHSIM) - Second extraction also had high SURR recovery. Matrix effect.
 L533395-03 (PH) - 7.88@21.0c
 L533395-03 (IGNITABILITY) - Did not ignite @ 170f



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 2717 County Road 215, Suite 100
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Date Received : August 30, 2011
 Description : G09-Pit X
 Sample ID : G09-SPOILE-082511
 Collected By : Brennan Graff
 Collection Date : 08/25/11 12:59

ESC Sample # : L533395-03
 Site ID : G09
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	71.	4.0	mg/kg	3546/DRO	08/31/11	1
Surrogate recovery(%) o-Terphenyl	53.9		% Rec.	3546/DRO	08/31/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.15	0.060	mg/kg	8270C-SIM	09/01/11	10
Acenaphthene	0.19	0.030	mg/kg	8270C-SIM	08/31/11	5
Acenaphthylene	0.060	0.030	mg/kg	8270C-SIM	08/31/11	5
Benzo(a)anthracene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Benzo(a)pyrene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Benzo(b)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Benzo(g,h,i)perylene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Benzo(k)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Chrysene	0.044	0.030	mg/kg	8270C-SIM	08/31/11	5
Dibenz(a,h)anthracene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Fluoranthene	0.064	0.060	mg/kg	8270C-SIM	09/01/11	10
Fluorene	0.13	0.030	mg/kg	8270C-SIM	08/31/11	5
Indeno(1,2,3-cd)pyrene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Naphthalene	0.081	0.030	mg/kg	8270C-SIM	08/31/11	5
Phenanthrene	0.13	0.060	mg/kg	8270C-SIM	09/01/11	10
Pyrene	0.083	0.030	mg/kg	8270C-SIM	08/31/11	5
1-Methylnaphthalene	0.089	0.030	mg/kg	8270C-SIM	08/31/11	5
2-Methylnaphthalene	0.098	0.030	mg/kg	8270C-SIM	08/31/11	5
2-Chloronaphthalene	BDL	0.030	mg/kg	8270C-SIM	08/31/11	5
Surrogate Recovery						
Nitrobenzene-d5	270.		% Rec.	8270C-SIM	08/31/11	5
2-Fluorobiphenyl	111.		% Rec.	8270C-SIM	08/31/11	5
p-Terphenyl-d14	102.		% Rec.	8270C-SIM	08/31/11	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L533395-03 (PAINT) - Contains No Free Liquid

L533395-03 (SV8270PAHSIM) - Second extraction also had high SURR recovery. Matrix effect.

L533395-03 (PH) - 7.88@21.0c

L533395-03 (IGNITABILITY) - Did not ignite @ 170f



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Date Received : August 30, 2011
 Description : G09-Pit X
 Sample ID : G09-SPOILE-082511
 Collected By : Brennan Graff
 Collection Date : 08/25/11 12:59

ESC Sample # : L533395-04
 Site ID : G09
 Project :

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
TCLP Extraction	-				1311	08/31/11 0700	MVE	1
Mercury	BDL	0.0010	mg/l	0.20	7470A	08/31/11 1618	MDC	1
Arsenic	BDL	0.050	mg/l	5.0	6010B	08/31/11 1805	ARF	1
Barium	2.4	0.15	mg/l	100	6010B	08/31/11 1805	ARF	1
Cadmium	BDL	0.050	mg/l	1.0	6010B	08/31/11 1805	ARF	1
Chromium	BDL	0.050	mg/l	5.0	6010B	08/31/11 1805	ARF	1
Lead	BDL	0.050	mg/l	5.0	6010B	08/31/11 1805	ARF	1
Selenium	BDL	0.050	mg/l	1.0	6010B	08/31/11 1805	ARF	1
Silver	BDL	0.050	mg/l	5.0	6010B	08/31/11 1805	ARF	1

BDL - Below Detection Limit
 Det. Limit - Estimated Quantitation Limit(EQL)
 Limit - Maximum Contaminant Level as established by the US EPA
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L533395-01	WG552972	SAMP	Mercury	R1837957	J6
	WG552977	SAMP	Corrosivity	R1838672	T8
	WG552970	SAMP	pH	R1838732	T8
L533395-03	WG552977	SAMP	Corrosivity	R1838672	T8
	WG552943	SAMP	Nitrobenzene-d5	R1838993	J1
	WG552970	SAMP	pH	R1838732	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

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.



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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Reactive Sulf.(SW846 7.3.4.1)	< 25	mg/kg			WG552861	08/30/11 09:43
Mercury	< .02	mg/kg			WG552972	08/31/11 03:48
Chromium,Hexavalent	< 2	mg/kg			WG552821	08/31/11 09:31
TPH (GC/FID) High Fraction	< 4	ppm			WG552850	08/31/11 01:29
o-Terphenyl		% Rec.	83.10	50-150	WG552850	08/31/11 01:29
Benzene	< .0005	mg/kg			WG552887	08/30/11 15:53
Ethylbenzene	< .0005	mg/kg			WG552887	08/30/11 15:53
Toluene	< .005	mg/kg			WG552887	08/30/11 15:53
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG552887	08/30/11 15:53
Total Xylene	< .0015	mg/kg			WG552887	08/30/11 15:53
a,a,a-Trifluorotoluene(FID)		% Rec.	97.21	59-128	WG552887	08/30/11 15:53
a,a,a-Trifluorotoluene(PID)		% Rec.	100.3	54-144	WG552887	08/30/11 15:53
Corrosivity	4.30				WG552977	08/31/11 10:51
pH	5.50	su			WG552970	08/31/11 13:32
Specific Conductance	1.20	umhos/cm			WG552632	08/31/11 14:51
1-Methylnaphthalene	< .006	mg/kg			WG552943	08/31/11 10:46
2-Chloronaphthalene	< .006	mg/kg			WG552943	08/31/11 10:46
2-Methylnaphthalene	< .006	mg/kg			WG552943	08/31/11 10:46
Acenaphthene	< .006	mg/kg			WG552943	08/31/11 10:46
Acenaphthylene	< .006	mg/kg			WG552943	08/31/11 10:46
Anthracene	< .006	mg/kg			WG552943	08/31/11 10:46
Benzo(a)anthracene	< .006	mg/kg			WG552943	08/31/11 10:46
Benzo(a)pyrene	< .006	mg/kg			WG552943	08/31/11 10:46
Benzo(b)fluoranthene	< .006	mg/kg			WG552943	08/31/11 10:46
Benzo(g,h,i)perylene	< .006	mg/kg			WG552943	08/31/11 10:46
Benzo(k)fluoranthene	< .006	mg/kg			WG552943	08/31/11 10:46
Chrysene	< .006	mg/kg			WG552943	08/31/11 10:46
Dibenz(a,h)anthracene	< .006	mg/kg			WG552943	08/31/11 10:46
Fluoranthene	< .006	mg/kg			WG552943	08/31/11 10:46
Fluorene	< .006	mg/kg			WG552943	08/31/11 10:46
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG552943	08/31/11 10:46
Naphthalene	< .006	mg/kg			WG552943	08/31/11 10:46
Phenanthrene	< .006	mg/kg			WG552943	08/31/11 10:46
Pyrene	< .006	mg/kg			WG552943	08/31/11 10:46
2-Fluorobiphenyl		% Rec.	73.46	34-129	WG552943	08/31/11 10:46
Nitrobenzene-d5		% Rec.	81.43	14-141	WG552943	08/31/11 10:46
p-Terphenyl-d14		% Rec.	86.47	25-139	WG552943	08/31/11 10:46
Arsenic	< 1	mg/kg			WG552881	08/31/11 13:27
Barium	< .25	mg/kg			WG552881	08/31/11 13:27
Cadmium	< .25	mg/kg			WG552881	08/31/11 13:27
Chromium	< .5	mg/kg			WG552881	08/31/11 13:27

* 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	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Copper	< 1	mg/kg			WG552881	08/31/11 13:27
Lead	< .25	mg/kg			WG552881	08/31/11 13:27
Nickel	< 1	mg/kg			WG552881	08/31/11 13:27
Selenium	< 1	mg/kg			WG552881	08/31/11 13:27
Silver	< .5	mg/kg			WG552881	08/31/11 13:27
Zinc	< 1.5	mg/kg			WG552881	08/31/11 13:27
Mercury	< .0002	mg/l			WG553056	08/31/11 16:13
Arsenic	< .05	mg/l			WG553057	08/31/11 17:02
Barium	< .15	mg/l			WG553057	08/31/11 17:02
Cadmium	< .05	mg/l			WG553057	08/31/11 17:02
Chromium	< .05	mg/l			WG553057	08/31/11 17:02
Lead	< .05	mg/l			WG553057	08/31/11 17:02
Selenium	< .05	mg/l			WG553057	08/31/11 17:02
Silver	< .05	mg/l			WG553057	08/31/11 17:02
TPH (GC/FID) High Fraction	< 4	ppm			WG552948	08/31/11 15:57
o-Terphenyl		% Rec.	69.35	50-150	WG552948	08/31/11 15:57
Reactive CN (SW846 7.3.3.2)	< .125	mg/kg			WG552862	09/01/11 10:17

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Reactive Sulf.(SW846 7.3.4.1)	mg/kg	0	0	0	20	L533031-01	WG552861
Mercury	mg/kg	0.0650	0.0550	16.2	20	L533395-01	WG552972
Chromium,Hexavalent	mg/kg	0	0	0	20	L533319-12	WG552821
Chromium,Hexavalent	mg/kg	0.200	1.50	153.*	20	L533298-01	WG552821
Corrosivity		0	0	0	10	L533395-01	WG552977
Ignitability	Deg. F	0	0	0	10	L533553-01	WG553114
pH	su	2.40	2.40	0	1	L533234-03	WG552970
pH	su	8.70	8.60	0.695	1	L533427-01	WG552970
Specific Conductance	umhos/cm	1100	1200	6.90	20	L533425-01	WG552632
ORP	mV	100.	110.	8.53	20	L533316-01	WG553034
Barium	mg/kg	150.	190.	23.5*	20	L533417-08	WG552881
Cadmium	mg/kg	0.940	1.05	10.6	20	L533417-08	WG552881
Chromium	mg/kg	12.0	16.5	34.9*	20	L533417-08	WG552881
Copper	mg/kg	38.0	0	NA	20	L533417-08	WG552881

* Performance of this Analyte is outside of established criteria.
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Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Lead	mg/kg	54.0	55.0	2.58	20	L533417-08	WG552881
Silver	mg/kg	0.600	0.527	13.1	20	L533417-08	WG552881
Zinc	mg/kg	230.	196.	16.4	20	L533417-08	WG552881
Arsenic	mg/kg	11.0	0	NA	20	L533417-08	WG552881
Nickel	mg/kg	21.0	0	NA	20	L533417-08	WG552881
Selenium	mg/kg	0	0	0	20	L533417-08	WG552881
Mercury	mg/l	0	0	0	20	L533395-04	WG553056
Arsenic	mg/l	0	0	0	20	L533426-04	WG553057
Barium	mg/l	0	0	0	20	L533426-04	WG553057
Cadmium	mg/l	0	0	0	20	L533426-04	WG553057
Chromium	mg/l	0	0	0	20	L533426-04	WG553057
Lead	mg/l	0	0	0	20	L533426-04	WG553057
Selenium	mg/l	0	0	0	20	L533426-04	WG553057
Silver	mg/l	0	0	0	20	L533426-04	WG553057
Reactive CN (SW846 7.3.3.2)	mg/kg	0	0	0	20	L533031-01	WG552862
Paint Filter Test	%	0	0	0	20	L533395-01	WG553037

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Reactive Sulf.(SW846 7.3.4.1)	mg/kg	100	120.	120.	70-130	WG552861
Mercury	mg/kg	3.77	3.12	82.8	71.6-128	WG552972
Chromium,Hexavalent	mg/kg	132	112.	84.8	50-150	WG552821
TPH (GC/FID) High Fraction	ppm	60	53.3	88.8	50-150	WG552850
o-Terphenyl				89.21	50-150	WG552850
Benzene	mg/kg	.05	0.0474	94.8	76-113	WG552887
Ethylbenzene	mg/kg	.05	0.0496	99.2	78-115	WG552887
Toluene	mg/kg	.05	0.0526	105.	76-114	WG552887
Total Xylene	mg/kg	.15	0.145	96.6	81-118	WG552887
a,a,a-Trifluorotoluene(PID)				99.37	54-144	WG552887
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.85	125.	67-135	WG552887
a,a,a-Trifluorotoluene(FID)				102.3	59-128	WG552887
Corrosivity		9.04	9.10	101.	98-101	WG552977
Ignitability	Deg. F	82	84.0	102.	93-107	WG553114
pH	su	9.04	9.00	99.6	98-101	WG552970

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Parachute, CO 81635

Quality Assurance Report
Level II

L533395

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Tax I.D. 62-0814289

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Specific Conductance	umhos/cm	427	430.	101.	85-115	WG552632
ORP	mV	229	220.	96.1	95.6-104.37	WG553034
1-Methylnaphthalene	mg/kg	.033	0.0267	80.9	48-113	WG552943
2-Chloronaphthalene	mg/kg	.033	0.0279	84.7	51-114	WG552943
2-Methylnaphthalene	mg/kg	.033	0.0270	81.8	44-109	WG552943
Acenaphthene	mg/kg	.033	0.0279	84.5	52-108	WG552943
Acenaphthylene	mg/kg	.033	0.0278	84.3	51-110	WG552943
Anthracene	mg/kg	.033	0.0297	89.9	58-120	WG552943
Benzo(a)anthracene	mg/kg	.033	0.0290	87.8	54-110	WG552943
Benzo(a)pyrene	mg/kg	.033	0.0288	87.3	56-118	WG552943
Benzo(b)fluoranthene	mg/kg	.033	0.0278	84.3	55-114	WG552943
Benzo(g,h,i)perylene	mg/kg	.033	0.0357	108.	48-130	WG552943
Benzo(k)fluoranthene	mg/kg	.033	0.0295	89.4	55-122	WG552943
Chrysene	mg/kg	.033	0.0293	88.7	57-118	WG552943
Dibenz(a,h)anthracene	mg/kg	.033	0.0330	100.	53-122	WG552943
Fluoranthene	mg/kg	.033	0.0293	88.7	58-118	WG552943
Fluorene	mg/kg	.033	0.0284	86.2	54-109	WG552943
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0330	99.9	51-125	WG552943
Naphthalene	mg/kg	.033	0.0253	76.8	45-105	WG552943
Phenanthrene	mg/kg	.033	0.0284	86.2	53-114	WG552943
Pyrene	mg/kg	.033	0.0315	95.4	53-121	WG552943
2-Fluorobiphenyl				74.96	34-129	WG552943
Nitrobenzene-d5				89.26	14-141	WG552943
p-Terphenyl-d14				88.72	25-139	WG552943
Arsenic	mg/kg	92.6	89.4	96.5	82.9-117	WG552881
Barium	mg/kg	169	166.	98.2	82.8-117	WG552881
Cadmium	mg/kg	61.8	58.9	95.3	83.3-117	WG552881
Chromium	mg/kg	71.3	71.0	99.6	81.8-118	WG552881
Copper	mg/kg	81.2	83.9	103.	83.9-116	WG552881
Lead	mg/kg	92.4	91.8	99.4	83.3-117	WG552881
Nickel	mg/kg	59.1	59.7	101.	83.8-116	WG552881
Selenium	mg/kg	89.5	89.1	99.6	79-121	WG552881
Silver	mg/kg	34.4	34.7	101.	66.3-134	WG552881
Zinc	mg/kg	141	134.	95.0	80.9-119	WG552881
Mercury	mg/l	.003	0.00288	96.0	85-115	WG553056
Arsenic	mg/l	1.13	1.13	100.	85-115	WG553057
Barium	mg/l	1.13	1.08	95.6	85-115	WG553057
Cadmium	mg/l	1.13	1.12	99.1	85-115	WG553057
Chromium	mg/l	1.13	1.07	94.7	85-115	WG553057
Lead	mg/l	1.13	1.14	101.	85-115	WG553057
Selenium	mg/l	1.13	1.12	99.1	85-115	WG553057
Silver	mg/l	1.13	1.12	99.1	85-115	WG553057
TPH (GC/FID) High Fraction	ppm	60	42.3	70.4	50-150	WG552948
o-Terphenyl				66.92	50-150	WG552948

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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Reactive Sulf.(SW846 7.3.4.1)	mg/kg	110.	120.	110.	70-130	8.70	20	WG552861
Chromium,Hexavalent	mg/kg	127.	112.	96.0	50-150	12.6	20	WG552821
TPH (GC/FID) High Fraction o-Terphenyl	ppm	49.5	53.3	82.0 81.95	50-150 50-150	7.37	20	WG552850 WG552850
Benzene	mg/kg	0.0475	0.0474	95.0	76-113	0.100	20	WG552887
Ethylbenzene	mg/kg	0.0492	0.0496	98.0	78-115	0.830	20	WG552887
Toluene	mg/kg	0.0524	0.0526	105.	76-114	0.350	20	WG552887
Total Xylene	mg/kg	0.143	0.145	96.0	81-118	1.10	20	WG552887
a,a,a-Trifluorotoluene(PID)				99.91	54-144			WG552887
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	6.74	6.85	122. 102.5	67-135 59-128	1.69	20	WG552887 WG552887
Corrosivity		9.10	9.10	101.	98-101	0	10	WG552977
Ignitability	Deg. F	85.0	84.0	104.	93-107	1.18	20	WG553114
pH	su	9.00	9.00	100.	98-101	0	20	WG552970
Specific Conductance	umhos/	420.	430.	98.0	85-115	2.35	20	WG552632
ORP	mV	220.	220.	96.0	95.6-104.37	0	20	WG553034
1-Methylnaphthalene	mg/kg	0.0247	0.0267	75.0	48-113	7.57	24	WG552943
2-Chloronaphthalene	mg/kg	0.0259	0.0279	79.0	51-114	7.44	24	WG552943
2-Methylnaphthalene	mg/kg	0.0252	0.0270	76.0	44-109	6.88	24	WG552943
Acenaphthene	mg/kg	0.0279	0.0279	85.0	52-108	0.221	22	WG552943
Acenaphthylene	mg/kg	0.0286	0.0278	87.0	51-110	2.66	21	WG552943
Anthracene	mg/kg	0.0298	0.0297	90.0	58-120	0.341	20	WG552943
Benzo(a)anthracene	mg/kg	0.0298	0.0290	90.0	54-110	2.81	22	WG552943
Benzo(a)pyrene	mg/kg	0.0286	0.0288	87.0	56-118	0.789	21	WG552943
Benzo(b)fluoranthene	mg/kg	0.0288	0.0278	87.0	55-114	3.52	20	WG552943
Benzo(g,h,i)perylene	mg/kg	0.0362	0.0357	110.	48-130	1.47	20	WG552943
Benzo(k)fluoranthene	mg/kg	0.0278	0.0295	84.0	55-122	6.08	25	WG552943
Chrysene	mg/kg	0.0293	0.0293	89.0	57-118	0.204	20	WG552943
Dibenz(a,h)anthracene	mg/kg	0.0337	0.0330	102.	53-122	2.12	20	WG552943
Fluoranthene	mg/kg	0.0289	0.0293	88.0	58-118	1.29	20	WG552943
Fluorene	mg/kg	0.0289	0.0284	88.0	54-109	1.63	20	WG552943
Indeno(1,2,3-cd)pyrene	mg/kg	0.0337	0.0330	102.	51-125	2.17	21	WG552943
Naphthalene	mg/kg	0.0272	0.0253	82.0	45-105	7.22	24	WG552943
Phenanthrene	mg/kg	0.0286	0.0284	87.0	53-114	0.565	20	WG552943
Pyrene	mg/kg	0.0326	0.0315	99.0	53-121	3.40	20	WG552943
2-Fluorobiphenyl				74.63	34-129			WG552943
Nitrobenzene-d5				78.48	14-141			WG552943
p-Terphenyl-d14				90.74	25-139			WG552943
TPH (GC/FID) High Fraction o-Terphenyl	ppm	48.3	42.3	80.0 73.71	50-150 50-150	13.3	25	WG552948 WG552948

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Mercury	mg/kg	0.223	0.0550	.25	67.2*	70-130	L533395-01	WG552972
Chromium,Hexavalent	mg/kg	13.8	0	20	69.0	50-150	L533298-02	WG552821
TPH (GC/FID) High Fraction o-Terphenyl	ppm	49.8	0.668	60	81.8 80.01	50-150 50-150	L532939-12	WG552850 WG552850
Benzene	mg/kg	0.203	0	.05	81.1	32-137	L533395-01	WG552887
Ethylbenzene	mg/kg	0.179	0	.05	71.8	10-150	L533395-01	WG552887
Toluene	mg/kg	0.210	0	.05	83.8	20-142	L533395-01	WG552887
Total Xylene	mg/kg	0.521	0	.15	69.4	16-141	L533395-01	WG552887
a,a,a-Trifluorotoluene(PID)					98.98	54-144		WG552887
TPH (GC/FID) Low Fraction	mg/kg	22.8	0	5.5	82.7	55-109	L533395-01	WG552887
a,a,a-Trifluorotoluene(FID)					99.70	59-128		WG552887
Barium	mg/kg	226.	190.	50	72.0*	75-125	L533417-08	WG552881
Cadmium	mg/kg	38.8	1.05	50	75.5	75-125	L533417-08	WG552881
Chromium	mg/kg	52.6	16.5	50	72.2*	75-125	L533417-08	WG552881
Copper	mg/kg	84.8	28.4	50	113.	75-125	L533417-08	WG552881
Lead	mg/kg	121.	55.0	50	132.*	75-125	L533417-08	WG552881
Silver	mg/kg	44.6	0.527	50	88.1	75-125	L533417-08	WG552881
Zinc	mg/kg	385.	196.	50	378.*	75-125	L533417-08	WG552881
Arsenic	mg/kg	52.2	0	5	104.	75-125	L533417-08	WG552881
Nickel	mg/kg	60.7	0	5	121.	75-125	L533417-08	WG552881
Selenium	mg/kg	33.1	0	5	66.2*	75-125	L533417-08	WG552881
Mercury	mg/l	0.00295	0	.003	98.3	70-130	L533395-04	WG553056
Arsenic	mg/l	1.08	0	1.13	95.6	75-125	L533426-04	WG553057
Barium	mg/l	1.08	0	1.13	95.6	75-125	L533426-04	WG553057
Cadmium	mg/l	1.10	0	1.13	97.3	75-125	L533426-04	WG553057
Chromium	mg/l	1.09	0	1.13	96.5	75-125	L533426-04	WG553057
Lead	mg/l	1.10	0	1.13	97.3	75-125	L533426-04	WG553057
Selenium	mg/l	1.09	0	1.13	96.5	75-125	L533426-04	WG553057
Silver	mg/l	1.10	0	1.13	97.3	75-125	L533426-04	WG553057
1-Methylnaphthalene	mg/kg	0.0245	0	.033	74.1	25-155	L533089-06	WG552943
2-Chloronaphthalene	mg/kg	0.0258	0	.033	78.2	31-153	L533089-06	WG552943
2-Methylnaphthalene	mg/kg	0.0259	0	.033	78.4	22-172	L533089-06	WG552943
Acenaphthene	mg/kg	0.0277	0	.033	83.8	43-133	L533089-06	WG552943
Acenaphthylene	mg/kg	0.0273	0	.033	82.8	42-146	L533089-06	WG552943
Anthracene	mg/kg	0.0277	0	.033	84.1	38-153	L533089-06	WG552943
Benzo(a)anthracene	mg/kg	0.0240	0	.033	72.8	31-142	L533089-06	WG552943
Benzo(a)pyrene	mg/kg	0.0228	0	.033	69.1	26-152	L533089-06	WG552943
Benzo(b)fluoranthene	mg/kg	0.0228	0	.033	69.0	10-188	L533089-06	WG552943
Benzo(g,h,i)perylene	mg/kg	0.0239	0	.033	72.6	10-176	L533089-06	WG552943
Benzo(k)fluoranthene	mg/kg	0.0234	0	.033	70.9	22-163	L533089-06	WG552943
Chrysene	mg/kg	0.0241	0	.033	72.9	26-146	L533089-06	WG552943
Dibenz(a,h)anthracene	mg/kg	0.0242	0	.033	73.4	10-160	L533089-06	WG552943
Fluoranthene	mg/kg	0.0262	0	.033	79.4	23-160	L533089-06	WG552943
Fluorene	mg/kg	0.0279	0	.033	84.6	44-143	L533089-06	WG552943
Indeno(1,2,3-cd)pyrene	mg/kg	0.0235	0	.033	71.1	10-157	L533089-06	WG552943

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Naphthalene	mg/kg	0.0252	0	.033	76.2	22-156	L533089-06	WG552943
Phenanthrene	mg/kg	0.0270	0	.033	81.7	23-164	L533089-06	WG552943
Pyrene	mg/kg	0.0287	0	.033	87.1	12-170	L533089-06	WG552943
2-Fluorobiphenyl					77.09	34-129		WG552943
Nitrobenzene-d5					75.89	14-141		WG552943
p-Terphenyl-d14					79.26	25-139		WG552943

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Mercury	mg/kg	0.215	0.223	64.0*	70-130	3.65	20	L533395-01	WG552972
Chromium,Hexavalent	mg/kg	12.6	13.8	63.0	50-150	9.09	20	L533298-02	WG552821
TPH (GC/FID) High Fraction	ppm	48.7	49.8	80.0	50-150	2.21	20	L532939-12	WG552850
o-Terphenyl				77.88	50-150				WG552850
Benzene	mg/kg	0.199	0.203	79.4	32-137	2.16	39	L533395-01	WG552887
Ethylbenzene	mg/kg	0.167	0.179	66.7	10-150	7.27	44	L533395-01	WG552887
Toluene	mg/kg	0.198	0.210	79.2	20-142	5.70	42	L533395-01	WG552887
Total Xylene	mg/kg	0.479	0.521	63.9	16-141	8.26	46	L533395-01	WG552887
a,a,a-Trifluorotoluene(PID)				99.39	54-144				WG552887
TPH (GC/FID) Low Fraction	mg/kg	19.6	22.8	71.4	55-109	14.7	20	L533395-01	WG552887
a,a,a-Trifluorotoluene(FID)				98.37	59-128				WG552887
Barium	mg/kg	260.	226.	140.*	75-125	14.0	20	L533417-08	WG552881
Cadmium	mg/kg	39.9	38.8	77.7	75-125	2.80	20	L533417-08	WG552881
Chromium	mg/kg	58.3	52.6	83.6	75-125	10.3	20	L533417-08	WG552881
Copper	mg/kg	84.4	84.8	112.	75-125	0.473	20	L533417-08	WG552881
Lead	mg/kg	96.6	121.	83.2	75-125	22.4*	20	L533417-08	WG552881
Silver	mg/kg	47.0	44.6	92.9	75-125	5.24	20	L533417-08	WG552881
Zinc	mg/kg	301.	385.	210.*	75-125	24.5*	20	L533417-08	WG552881
Arsenic	mg/kg	42.9	52.2	85.8	75-125	19.6	20	L533417-08	WG552881
Nickel	mg/kg	46.0	60.7	92.0	75-125	27.6*	20	L533417-08	WG552881
Selenium	mg/kg	30.3	33.1	60.6*	75-125	8.83	20	L533417-08	WG552881
Mercury	mg/l	0.00292	0.00295	97.3	70-130	1.02	20	L533395-04	WG553056
Arsenic	mg/l	1.10	1.08	97.3	75-125	1.83	20	L533426-04	WG553057
Barium	mg/l	1.13	1.08	100.	75-125	4.52	20	L533426-04	WG553057
Cadmium	mg/l	1.11	1.10	98.2	75-125	0.905	20	L533426-04	WG553057
Chromium	mg/l	1.10	1.09	97.3	75-125	0.913	20	L533426-04	WG553057
Lead	mg/l	1.12	1.10	99.1	75-125	1.80	20	L533426-04	WG553057
Selenium	mg/l	1.11	1.09	98.2	75-125	1.82	20	L533426-04	WG553057
Silver	mg/l	1.12	1.10	99.1	75-125	1.80	20	L533426-04	WG553057
1-Methylnaphthalene	mg/kg	0.0266	0.0245	80.6	25-155	8.35	27	L533089-06	WG552943
2-Chloronaphthalene	mg/kg	0.0252	0.0258	76.4	31-153	2.40	22	L533089-06	WG552943
2-Methylnaphthalene	mg/kg	0.0279	0.0259	84.5	22-172	7.49	29	L533089-06	WG552943
Acenaphthene	mg/kg	0.0287	0.0277	86.9	43-133	3.62	26	L533089-06	WG552943
Acenaphthylene	mg/kg	0.0289	0.0273	87.4	42-146	5.50	22	L533089-06	WG552943
Anthracene	mg/kg	0.0303	0.0277	91.9	38-153	8.88	27	L533089-06	WG552943

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzo(a)anthracene	mg/kg	0.0270	0.0240	81.8	31-142	11.7	31	L533089-06	WG552943
Benzo(a)pyrene	mg/kg	0.0269	0.0228	81.6	26-152	16.5	32	L533089-06	WG552943
Benzo(b)fluoranthene	mg/kg	0.0270	0.0228	81.8	10-188	16.9	33	L533089-06	WG552943
Benzo(g,h,i)perylene	mg/kg	0.0274	0.0239	82.9	10-176	13.3	30	L533089-06	WG552943
Benzo(k)fluoranthene	mg/kg	0.0265	0.0234	80.3	22-163	12.4	29	L533089-06	WG552943
Chrysene	mg/kg	0.0273	0.0241	82.6	26-146	12.5	30	L533089-06	WG552943
Dibenz(a,h)anthracene	mg/kg	0.0276	0.0242	83.8	10-160	13.2	39	L533089-06	WG552943
Fluoranthene	mg/kg	0.0292	0.0262	88.6	23-160	10.9	22	L533089-06	WG552943
Fluorene	mg/kg	0.0292	0.0279	88.4	44-143	4.37	23	L533089-06	WG552943
Indeno(1,2,3-cd)pyrene	mg/kg	0.0271	0.0235	82.2	10-157	14.6	40	L533089-06	WG552943
Naphthalene	mg/kg	0.0267	0.0252	81.0	22-156	6.07	27	L533089-06	WG552943
Phenanthrene	mg/kg	0.0289	0.0270	87.6	23-164	7.03	25	L533089-06	WG552943
Pyrene	mg/kg	0.0299	0.0287	90.5	12-170	3.81	24	L533089-06	WG552943
2-Fluorobiphenyl				80.02	34-129				WG552943
Nitrobenzene-d5				78.84	14-141				WG552943
p-Terphenyl-d14				82.33	25-139				WG552943

Batch number / Run number / Sample number cross reference

WG552861: R1837234: L533395-01 03
 WG552972: R1837957: L533395-01 03
 WG552821: R1838012: L533395-01 03
 WG552850: R1838313: L533395-01
 WG552887: R1838472: L533395-01 03
 WG552977: R1838672: L533395-01 03
 WG553114: R1838692: L533395-01 03
 WG552970: R1838732: L533395-01 03
 WG552632: R1838872: L533395-01 03
 WG553034: R1838973: L533395-01 03
 WG552943: R1838993: L533395-01 03
 WG552897: R1839014: L533395-02 04
 WG552881: R1839034: L533395-01 03
 WG553056: R1839576: L533395-02 04
 WG553057: R1839832: L533395-02 04
 WG552959: R1839852: L533395-01 03
 WG552948: R1839972: L533395-03
 WG552862: R1840332: L533395-01 03
 WG553037: R1840512: L533395-01 03

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

Parachute, CO 81635

Quality Assurance Report
Level II

L533395

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Tax I.D. 62-0814289

Est. 1970

September 01, 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.



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

Report Summary

Monday September 19, 2011

Report Number: L536416

Samples Received: 09/16/11

Client Project: G09

Description: G09 Soil Spoil

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

Entire Report Reviewed By:

Jared Willis , ESC Representative

Laboratory Certification Numbers

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

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

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

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REPORT OF ANALYSIS

September 19, 2011

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

Date Received : September 16, 2011
 Description : G09 Soil Spoil
 Sample ID : G09-N1-091411
 Collected By : SRM
 Collection Date : 09/14/11 13:45

ESC Sample # : L536416-01
 Site ID :
 Project # : G09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	09/16/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	09/16/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	09/16/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	09/16/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	09/16/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.5		% Rec.	8021/8015	09/16/11	5
a,a,a-Trifluorotoluene(PID)	99.3		% Rec.	8021/8015	09/16/11	5
TPH (GC/FID) High Fraction	730	200	mg/kg	3546/DRO	09/19/11	50
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	09/19/11	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: 09/19/11 14:03 Printed: 09/19/11 14:03



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REPORT OF ANALYSIS

September 19, 2011

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

Date Received : September 16, 2011
 Description : G09 Soil Spoil
 Sample ID : G09-N2-091411
 Collected By : SRM
 Collection Date : 09/14/11 11:50

ESC Sample # : L536416-02
 Site ID :
 Project # : G09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	09/17/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	09/17/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	09/17/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	09/17/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	09/17/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.4		% Rec.	8021/8015	09/17/11	5
a,a,a-Trifluorotoluene(PID)	97.8		% Rec.	8021/8015	09/17/11	5
TPH (GC/FID) High Fraction	1300	200	mg/kg	3546/DRO	09/19/11	50
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	09/19/11	50

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 Note:
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REPORT OF ANALYSIS

September 19, 2011

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

ESC Sample # : L536416-03

Date Received : September 16, 2011
Description : G09 Soil Spoil

Site ID :

Sample ID : G09-N3-091411

Project # : G09

Collected By : SRM
Collection Date : 09/14/11 12:00

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include Benzene, Toluene, Ethylbenzene, Total Xylene, TPH (GC/FID) Low Fraction, Surrogate Recovery-%, a,a,a-Trifluorotoluene(FID), a,a,a-Trifluorotoluene(PID), TPH (GC/FID) High Fraction, Surrogate recovery(%), o-Terphenyl.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

September 19, 2011

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

Date Received : September 16, 2011
 Description : G09 Soil Spoil
 Sample ID : G09-N4-091411
 Collected By : SRM
 Collection Date : 09/14/11 12:15

ESC Sample # : L536416-04
 Site ID :
 Project # : G09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	09/17/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	09/17/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	09/17/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	09/17/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	09/17/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.4		% Rec.	8021/8015	09/17/11	5
a,a,a-Trifluorotoluene(PID)	98.7		% Rec.	8021/8015	09/17/11	5
TPH (GC/FID) High Fraction	1200	200	mg/kg	3546/DRO	09/19/11	50
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	09/19/11	50

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 09/19/11 14:03 Printed: 09/19/11 14:03

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L536416-01	WG555530	SAMP	TPH (GC/FID) Low Fraction	R1862132	J3
	WG555697	SAMP	o-Terphenyl	R1863053	J7
L536416-02	WG555697	SAMP	o-Terphenyl	R1863053	J7
L536416-04	WG555697	SAMP	o-Terphenyl	R1863053	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

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
09/19/11 at 14:03:33

TSR Signing Reports: 358
R3 - Rush: Two Day

If COC says TPH, then please log for GRO and DRO.

Sample: L536416-01 Account: ENCANACO Received: 09/16/11 09:00 Due Date: 09/20/11 00:00 RPT Date: 09/19/11 14:03

Sample: L536416-02 Account: ENCANACO Received: 09/16/11 09:00 Due Date: 09/20/11 00:00 RPT Date: 09/19/11 14:03

Sample: L536416-03 Account: ENCANACO Received: 09/16/11 09:00 Due Date: 09/20/11 00:00 RPT Date: 09/19/11 14:03

Sample: L536416-04 Account: ENCANACO Received: 09/16/11 09:00 Due Date: 09/20/11 00:00 RPT Date: 09/19/11 14:03



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 Chris Hines
 2717 County Road 215, Suite 100
 Parachute, CO 81635

Quality Assurance Report
 Level II

L536416

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 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

September 19, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG555530	09/16/11 19:54
Ethylbenzene	< .0005	mg/kg			WG555530	09/16/11 19:54
Toluene	< .005	mg/kg			WG555530	09/16/11 19:54
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG555530	09/16/11 19:54
Total Xylene	< .0015	mg/kg			WG555530	09/16/11 19:54
a,a,a-Trifluorotoluene(FID)		% Rec.	95.26	59-128	WG555530	09/16/11 19:54
a,a,a-Trifluorotoluene(PID)		% Rec.	99.51	54-144	WG555530	09/16/11 19:54
TPH (GC/FID) High Fraction	< 4	ppm			WG555697	09/19/11 09:35
o-Terphenyl		% Rec.	97.40	50-150	WG555697	09/19/11 09:35

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0483	96.6	76-113	WG555530
Ethylbenzene	mg/kg	.05	0.0498	99.7	78-115	WG555530
Toluene	mg/kg	.05	0.0517	103.	76-114	WG555530
Total Xylene	mg/kg	.15	0.147	98.2	81-118	WG555530
a,a,a-Trifluorotoluene(PID)				98.14	54-144	WG555530
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.58	120.	67-135	WG555530
a,a,a-Trifluorotoluene(FID)				94.95	59-128	WG555530
TPH (GC/FID) High Fraction	ppm	60	53.0	88.4	50-150	WG555697
o-Terphenyl				95.68	50-150	WG555697

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0523	0.0483	104.	76-113	7.89	20	WG555530
Ethylbenzene	mg/kg	0.0530	0.0498	106.	78-115	6.06	20	WG555530
Toluene	mg/kg	0.0546	0.0517	109.	76-114	5.37	20	WG555530
Total Xylene	mg/kg	0.155	0.147	104.	81-118	5.35	20	WG555530
a,a,a-Trifluorotoluene(PID)				98.41	54-144			WG555530
TPH (GC/FID) Low Fraction	mg/kg	7.09	6.58	129.	67-135	7.45	20	WG555530
a,a,a-Trifluorotoluene(FID)				97.24	59-128			WG555530
TPH (GC/FID) High Fraction	ppm	54.6	53.0	91.0	50-150	2.96	25	WG555697
o-Terphenyl				102.6	50-150			WG555697

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/kg	0.231	0	.05	92.3	32-137	L536203-01	WG555530
Ethylbenzene	mg/kg	0.230	0	.05	92.0	10-150	L536203-01	WG555530
Toluene	mg/kg	0.249	0.00110	.05	99.0	20-142	L536203-01	WG555530
Total Xylene	mg/kg	0.684	0	.15	91.2	16-141	L536203-01	WG555530
a,a,a-Trifluorotoluene(PID)					96.79	54-144		WG555530
TPH (GC/FID) Low Fraction	mg/kg	22.2	0	5.5	80.6	55-109	L536416-01	WG555530
a,a,a-Trifluorotoluene(FID)					100.0	59-128		WG555530

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Benzene	mg/kg	0.243	0.231	97.4	32-137	5.38	39	L536203-01	WG555530
Ethylbenzene	mg/kg	0.230	0.230	92.1	10-150	0.120	44	L536203-01	WG555530
Toluene	mg/kg	0.251	0.249	100.	20-142	0.930	42	L536203-01	WG555530

* 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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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

September 19, 2011

Table with columns: Analyte, Units, MSD, Matrix Spike Ref, Duplicate %Rec, Limit, RPD, Limit Ref, Samp, Batch. Rows include Total Xylene, a,a,a-Trifluorotoluene(PID), TPH (GC/FID) Low Fraction, and a,a,a-Trifluorotoluene(FID).

Batch number /Run number / Sample number cross reference

WG555530: R1862132: L536416-01 02 03 04
WG555697: R1863053: L536416-01 02 03 04

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

Report Summary

Tuesday October 25, 2011

Report Number: L542770

Samples Received: 10/21/11

Client Project: G09

Description: G09 Soil Spoil

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, PA - 68-02979

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REPORT OF ANALYSIS

October 25, 2011

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

ESC Sample # : L542770-01

Date Received : October 21, 2011
Description : G09 Soil Spoil

Site ID :

Sample ID : G09-SS-1-101911 4-6 IN

Project # : G09

Collected By : RGW
Collection Date : 10/19/11 14:55

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include Benzene, Toluene, Ethylbenzene, Total Xylene, TPH (GC/FID) Low Fraction, Surrogate Recovery-%, a,a,a-Trifluorotoluene(FID), a,a,a-Trifluorotoluene(PID), TPH (GC/FID) High Fraction, Surrogate recovery(%), o-Terphenyl.

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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Est. 1970

REPORT OF ANALYSIS

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

October 25, 2011

Date Received : October 21, 2011
 Description : G09 Soil Spoil
 Sample ID : G09-SS-2-101911 4-6 IN
 Collected By : RGW
 Collection Date : 10/19/11 15:05

ESC Sample # : L542770-02

Site ID :

Project # : G09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	10/23/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/23/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/23/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/23/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/23/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	98.3		% Rec.	8021/8015	10/23/11	5
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	10/23/11	5
TPH (GC/FID) High Fraction	550	20.	mg/kg	3546/DRO	10/25/11	5
Surrogate recovery(%)						
o-Terphenyl	80.9		% Rec.	3546/DRO	10/25/11	5

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October 25, 2011

Date Received : October 21, 2011
 Description : G09 Soil Spoil
 Sample ID : G09-SS-3-101911 4-6 IN
 Collected By : RGW
 Collection Date : 10/19/11 15:10

ESC Sample # : L542770-03

Site ID :

Project # : G09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	10/23/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/23/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/23/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/23/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/23/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	98.9		% Rec.	8021/8015	10/23/11	5
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	10/23/11	5
TPH (GC/FID) High Fraction	390	20.	mg/kg	3546/DRO	10/25/11	5
Surrogate recovery(%)						
o-Terphenyl	61.1		% Rec.	3546/DRO	10/25/11	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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 2717 County Road 215, Suite 100
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October 25, 2011

Date Received : October 21, 2011
 Description : G09 Soil Spoil
 Sample ID : G09-SS-4-101911 4-6 IN
 Collected By : RGW
 Collection Date : 10/19/11 15:15

ESC Sample # : L542770-04

Site ID :

Project # : G09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	10/23/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/23/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/23/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/23/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/23/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	98.5		% Rec.	8021/8015	10/23/11	5
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	10/23/11	5
TPH (GC/FID) High Fraction	500	20.	mg/kg	3546/DRO	10/25/11	5
Surrogate recovery(%)						
o-Terphenyl	51.2		% Rec.	3546/DRO	10/25/11	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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October 25, 2011

Date Received : October 21, 2011
 Description : G09 Soil Spoil
 Sample ID : G09-SS-5-101911 4-6 IN
 Collected By : RGW
 Collection Date : 10/19/11 15:20

ESC Sample # : L542770-05

Site ID :

Project # : G09

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	10/22/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/22/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/22/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/22/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/22/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	99.7		% Rec.	8021/8015	10/22/11	5
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/8015	10/22/11	5
TPH (GC/FID) High Fraction	680	20.	mg/kg	3546/DRO	10/25/11	5
Surrogate recovery(%)						
o-Terphenyl	85.3		% Rec.	3546/DRO	10/25/11	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L542770-01	WG561790	SAMP	o-Terphenyl	R1906472	J7
L542770-05	WG561713	SAMP	TPH (GC/FID) Low Fraction	R1905192	J6

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

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
10/25/11 at 16:27:56

TSR Signing Reports: 358
R3 - Rush: Two Day

If COC says TPH, then please log for GRO and DRO.

Sample: L542770-01 Account: ENCANACO Received: 10/21/11 09:00 Due Date: 10/25/11 00:00 RPT Date: 10/25/11 16:27

Sample: L542770-02 Account: ENCANACO Received: 10/21/11 09:00 Due Date: 10/25/11 00:00 RPT Date: 10/25/11 16:27

Sample: L542770-03 Account: ENCANACO Received: 10/21/11 09:00 Due Date: 10/25/11 00:00 RPT Date: 10/25/11 16:27

Sample: L542770-04 Account: ENCANACO Received: 10/21/11 09:00 Due Date: 10/25/11 00:00 RPT Date: 10/25/11 16:27

Sample: L542770-05 Account: ENCANACO Received: 10/21/11 09:00 Due Date: 10/25/11 00:00 RPT Date: 10/25/11 16:27



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Quality Assurance Report
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October 25, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG561713	10/22/11 22:58
Ethylbenzene	< .0005	mg/kg			WG561713	10/22/11 22:58
Toluene	< .005	mg/kg			WG561713	10/22/11 22:58
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG561713	10/22/11 22:58
Total Xylene	< .0015	mg/kg			WG561713	10/22/11 22:58
a,a,a-Trifluorotoluene(FID)		% Rec.	99.97	59-128	WG561713	10/22/11 22:58
a,a,a-Trifluorotoluene(PID)		% Rec.	106.4	54-144	WG561713	10/22/11 22:58
TPH (GC/FID) High Fraction	< 4	ppm			WG561790	10/24/11 12:16
o-Terphenyl		% Rec.	64.52	50-150	WG561790	10/24/11 12:16
TPH (GC/FID) High Fraction	< 4	ppm			WG562282	10/25/11 14:36
o-Terphenyl		% Rec.	83.13	50-150	WG562282	10/25/11 14:36

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0480	96.0	76-113	WG561713
Ethylbenzene	mg/kg	.05	0.0561	112.	78-115	WG561713
Toluene	mg/kg	.05	0.0518	104.	76-114	WG561713
Total Xylene	mg/kg	.15	0.168	112.	81-118	WG561713
a,a,a-Trifluorotoluene(FID)				101.4	59-128	WG561713
a,a,a-Trifluorotoluene(PID)				104.9	54-144	WG561713
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.78	105.	67-135	WG561713
a,a,a-Trifluorotoluene(FID)				101.9	59-128	WG561713
a,a,a-Trifluorotoluene(PID)				107.7	54-144	WG561713
TPH (GC/FID) High Fraction	ppm	60	45.8	76.3	50-150	WG561790
o-Terphenyl				84.43	50-150	WG561790
TPH (GC/FID) High Fraction	ppm	60	49.6	82.7	50-150	WG562282
o-Terphenyl				91.14	50-150	WG562282

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0490	0.0480	98.0	76-113	2.11	20	WG561713
Ethylbenzene	mg/kg	0.0561	0.0561	112.	78-115	0.0500	20	WG561713
Toluene	mg/kg	0.0521	0.0518	104.	76-114	0.550	20	WG561713
Total Xylene	mg/kg	0.167	0.168	112.	81-118	0.250	20	WG561713
a,a,a-Trifluorotoluene(FID)				101.6	59-128			WG561713
a,a,a-Trifluorotoluene(PID)				105.4	54-144			WG561713
TPH (GC/FID) Low Fraction	mg/kg	5.60	5.78	102.	67-135	3.14	20	WG561713
a,a,a-Trifluorotoluene(FID)				101.4	59-128			WG561713
a,a,a-Trifluorotoluene(PID)				107.4	54-144			WG561713
TPH (GC/FID) High Fraction	ppm	45.6	45.8	76.0	50-150	0.476	25	WG561790
o-Terphenyl				83.73	50-150			WG561790

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/kg	0.210	0	.05	84.1	32-137	L542770-05	WG561713
Ethylbenzene	mg/kg	0.201	0	.05	80.6	10-150	L542770-05	WG561713

* 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	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Toluene	mg/kg	0.212	0	.05	84.7	20-142	L542770-05	WG561713
Total Xylene	mg/kg	0.620	0	.15	82.7	16-141	L542770-05	WG561713
a,a,a-Trifluorotoluene(FID)					100.6	59-128		WG561713
a,a,a-Trifluorotoluene(PID)					103.5	54-144		WG561713
TPH (GC/FID) Low Fraction	mg/kg	17.6	0	5.5	64.0	55-109	L542770-05	WG561713
a,a,a-Trifluorotoluene(FID)					105.0	59-128		WG561713
a,a,a-Trifluorotoluene(PID)					106.3	54-144		WG561713
TPH (GC/FID) High Fraction	ppm	45.5	0	60	75.9	50-150	L542580-07	WG561790
o-Terphenyl					76.05	50-150		WG561790
TPH (GC/FID) High Fraction	ppm	33.5	0	60	55.8	50-150	L543006-02	WG562282
o-Terphenyl					56.35	50-150		WG562282

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
TPH (GC/FID) Low Fraction	mg/kg	14.6	17.6	53.3*	55-109	18.3	20	L542770-05	WG561713
a,a,a-Trifluorotoluene(FID)				103.2	59-128				WG561713
a,a,a-Trifluorotoluene(PID)				105.6	54-144				WG561713
Benzene	mg/kg	0.201	0.210	80.6	32-137	4.26	39	L542770-05	WG561713
Ethylbenzene	mg/kg	0.191	0.201	76.5	10-150	5.21	44	L542770-05	WG561713
Toluene	mg/kg	0.203	0.212	81.0	20-142	4.46	42	L542770-05	WG561713
Total Xylene	mg/kg	0.581	0.620	77.5	16-141	6.46	46	L542770-05	WG561713
a,a,a-Trifluorotoluene(FID)				100.0	59-128				WG561713
a,a,a-Trifluorotoluene(PID)				103.8	54-144				WG561713
TPH (GC/FID) High Fraction	ppm	43.2	45.5	72.0	50-150	5.22	25	L542580-07	WG561790
o-Terphenyl				77.10	50-150				WG561790
TPH (GC/FID) High Fraction	ppm	38.9	33.5	64.8	50-150	14.9	25	L543006-02	WG562282
o-Terphenyl				68.08	50-150				WG562282

Batch number /Run number / Sample number cross reference

WG561713: R1905192: L542770-01 02 03 04 05
 WG561790: R1906472: L542770-01 03 04 05
 WG562282: R1908256: L542770-02

* * 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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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.