



**Encana Oil & Gas (USA) Inc.**  
370 - 17 Street, Suite 1700  
Denver, CO 80202

**USA 01-01LW (Location: 382910)**  
**Pit (Facility: 112177)**  
**Encana Oil & Gas (USA) Inc. (Operator: 100185)**

## **REPORT OF WORK COMPLETED**

- Form 27 (Doc: 2313589) (Rem: 8846)
- Form 19 (Doc: 400778265)

Encana Oil & Gas (USA) Inc. (Encana) is submitting this Form 4 (Report of Work Completed and Notification of Completion) to document closure of an earthen pit on a well pad, specified above, in the North De Beque area of operation in Garfield County. As part of due diligence efforts in support of final reclamation activities on the USA 01-01 LW well pad, an open pit record was identified as part of the document search. Though the pit was physically closed, there were no records of the closure. The attached topographic location map shows the site location.

In November, 2013 a track hoe was used to excavate at the former pit location visible in aerial imagery and collect characterization samples. Soil conditions were assessed with field observations and the collection of eight (8) grab samples from the pit bottom and side walls. Samples were submitted to the laboratory for analysis of COGCC Table 910-1 constituents of concern. Sample results identified concentrations/levels above the allowable limits for TPH, BTEX and PAH. In accordance with COGCC Rule 905.c, a Form 19 was submitted to document discovery of impacted soils.

Following identification of impacts, the excavated pit contents were returned to the pit and in May, 2015 four (4) wells with screened intervals to augment in-situ bioremediation were installed. The wells were placed in the former pit location at depths of approximately 15 feet below surface. Each well was fitted with wind-powered ventilator turbines to support in-situ bioremediation. The system was monitored for three (3) months and operation and maintenance field parameters suggested biodegradation was occurring.

In February, 2015 soil samples were again collected and showed constituents within allowable limits. Analytical results are provided in the attached summary table and laboratory reports.



## NOTIFICATION OF COMPLETION

Encana requests that the COGCC consider the following conditions associated with this pit closure project and location as an alternative to the allowable limit for inorganics:

Arsenic concentrations in the pit bottom 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 constituent (SAR), the material represented by these samples are within the former pit footprint, are greater than five feet below the final reclaimed surface where the constituents will have no effect on revegetation efforts. Encana requests that the physical disposition of this material, along with the reason for inclusion in Table 910-1, be considered as alternative to the allowable levels.

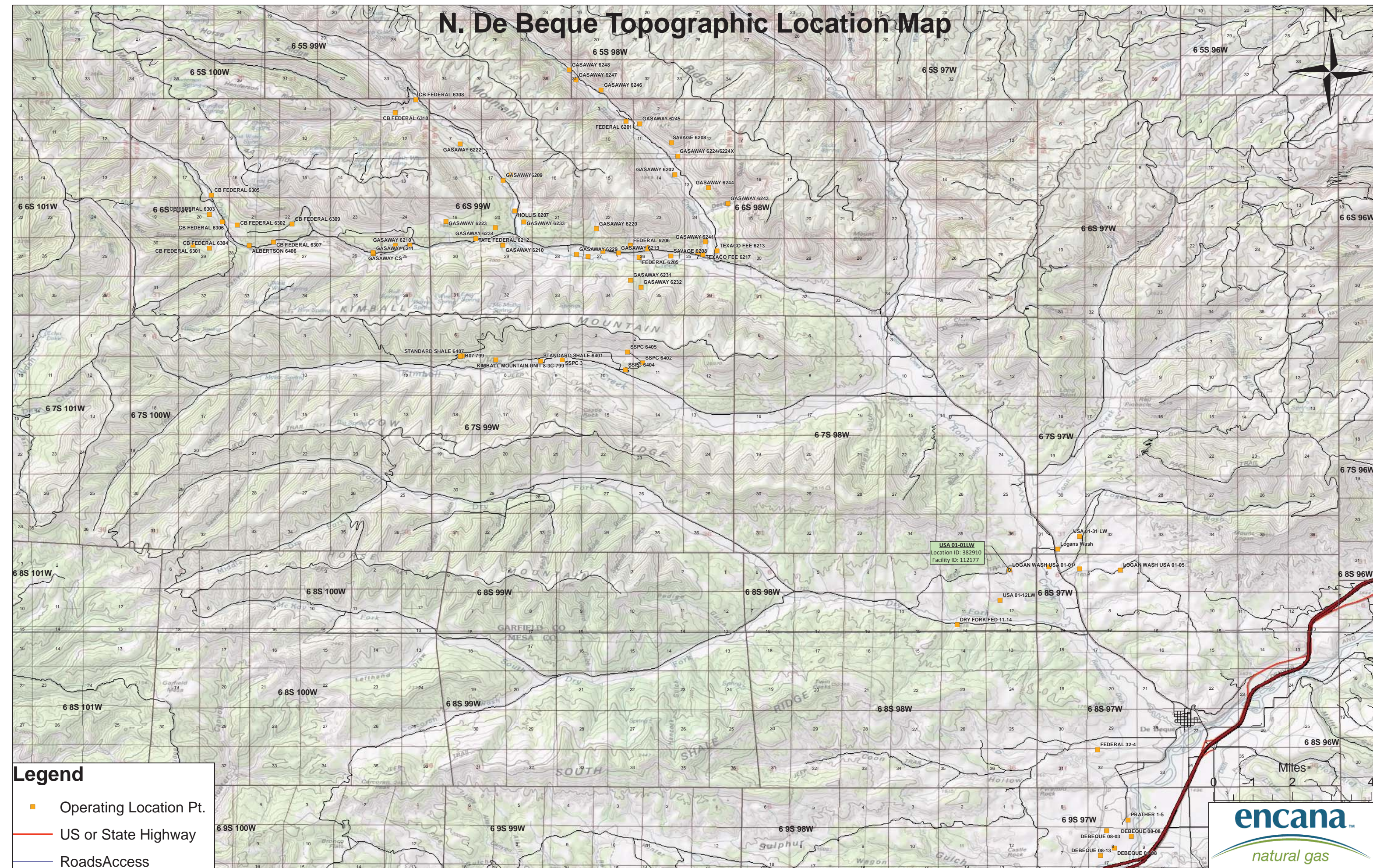
Upon approval of the remediation efforts, the SVE wells will be removed from the location and boreholes plugged and abandoned.

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

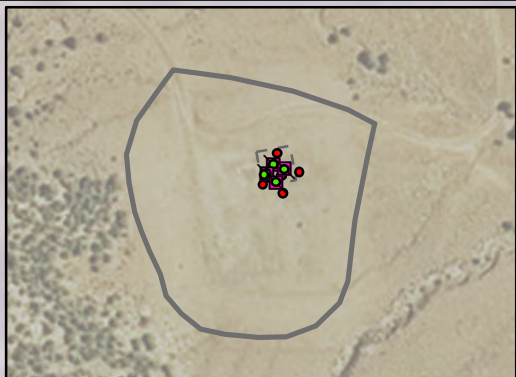
## ATTACHMENTS

1. Topographic Location Map
2. SVE Operation and Maintenance Reports
3. Laboratory Results Summary Table
4. Laboratory Reports





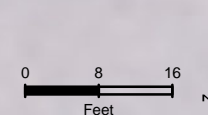
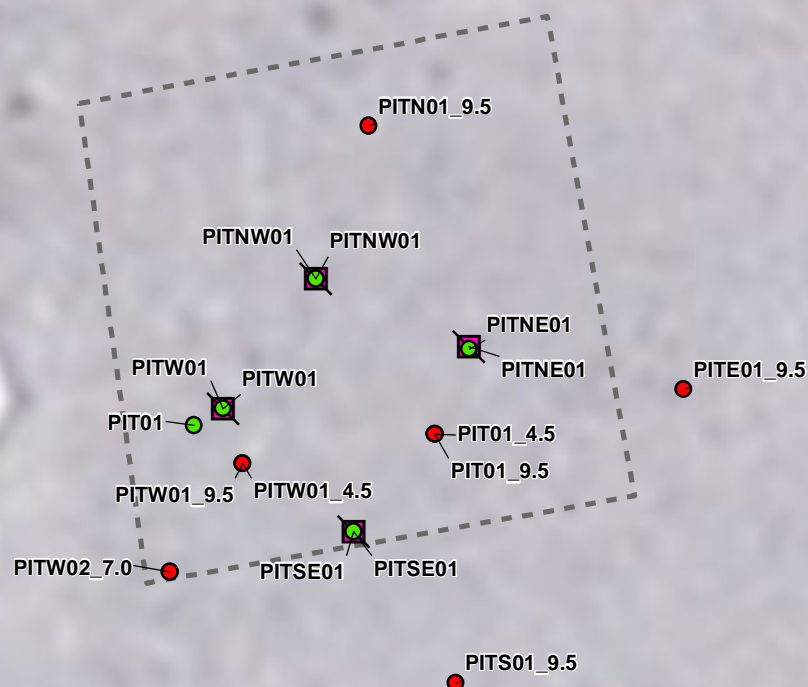




**USA01-01LW**  
**Location ID 382910**  
**Pit Closure**  
**Form 4 Site Map**

**Legend**

- Initial Sample
- Confirmation Sample
- Vent Well
- Former Pit Footprint
- Reclaimed Pad Surface



**Site Characteristics**

**Legal Location:** SENW, Sec 1, T8S R98W  
**County:** Garfield  
**Land Use:** Rangeland  
**Topography:** 3-8% Slopes  
**Run-Off Risk:** Very high  
**Soil Type:** Dominguez clay loam  
**Receiving Waters:** Unnamed tributary to Roan Creek,  
320-ft Southeast

REVISED	BY	COMMENT
11/17/2015	BJB	Figure 1



# Laboratory Results Summary Table

Analytes (BDL = Below Detection Limit; ND = Non Detect, U = below minimum detection limit [MDL])

Allowable Concentration -->				Organic Compounds in Soil (mg/kg [ppm])																	Inorganics in Soil			Metals in Soil (mg/kg [ppm])															
Location	Sample Date:	Sample Matrix	Matrix Notes	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	
USA 1-01LW	02/18/15	Pit	1.5'	310	BDL	310																																	
USA 1-01LW	02/18/15	Pit	3'	100	BDL	100																																	
USA 1-01LW	02/18/15	Pit	5'	BDL	BDL	BDL																																	
USA 1-01LW	02/18/15	Pit	7'	40	BDL	40																																	
USA 1-01LW	05/20/14	Pit	NW01 [5-7']	BDL	BDL	BDL							BDL	BDL		BDL																							
USA 1-01LW	05/20/14	Pit	NW01 [10-12']	120	BDL	120							0.014	BDL		BDL																							
USA 1-01LW	05/20/14	Pit	SW01 [10-12']	BDL	BDL	BDL							BDL	BDL		BDL																							
USA 1-01LW	05/20/14	Pit	SW01 [15-17']	BDL	BDL	BDL							BDL	BDL		BDL																							
USA 1-01LW	05/20/14	Pit	NE01 [5-7']	440	BDL	440							BDL	0.016		BDL																							
USA 1-01LW	05/20/14	Pit	NE01 [15-17']	BDL	BDL	BDL							BDL	BDL		BDL																							
USA 1-01LW	05/20/14	Pit	SE01 [10-12']	BDL	BDL	BDL							BDL	BDL		BDL																							
USA 1-01LW	05/20/14	Pit	SE01 [15-17']	BDL	BDL	BDL							BDL	BDL		BDL																							
USA 1-01LW	11/13/13	Pit	01 [4.5']	26020	20	26000	BDL	BDL	BDL	BDL	2	6.8	0.79	0.3	BDL	BDL	0.47	BDL	1.5	8.7	BDL	1.2	1.4	0.12	15	8.3	1.1	1100	BDL	8.4	BDL	10	7.9	BDL	5.7	1	BDL	31	
USA 1-01LW	11/13/13	Pit	01 [9.5']	4.2	BDL	4.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.14	8.1	8	3.7	350	0.26	15	BDL	16	10	BDL	11	BDL	BDL	54	
USA 1-01LW	11/13/13	Pit	W01 [4.5']	32900	1900	31000	BDL	BDL	BDL	8.1	2.4	5.2	0.34	0.21	0.12	0.13	0.48	BDL	0.92	7.3	BDL	9.8	1.2	0.12	17	8.6	2.9	1500	0.4	14	BDL	17	16	BDL	11	BDL	BDL	54	
USA 1-01LW	11/13/13	Pit	W01 [9.5']	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.12	8.2	7.6	4.7	180	BDL	19	BDL	15	14	BDL	20	1.8	BDL	81	
USA 1-01LW	11/13/13	Pit	W02 [7']	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.12	7.9	7.6	4.3	190	BDL	18	BDL	16	16	BDL	19	1.4	BDL	67	
USA 1-01LW	11/13/13	Pit	S01 [9.5']	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13	8	7.7	2.9	360	0.29	13	BDL	15	10	BDL	11	1.3	BDL	47	
USA 1-01LW	11/13/13	Pit	E01 [9.5']	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.14	6.2	7.7	3.8	310	BDL	13	BDL	16	10	BDL	11	1.2	BDL	54	
USA 1-01LW	11/13/13	Pit	N01 [9.5']	330	BDL	330	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.026	BDL	0.12	5.2	7.8	2.4	410	BDL	15	BDL	18	19	BDL	10	BDL	BDL	52



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Est. 1970

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

## Report Summary

Thursday February 26, 2015

Report Number: L749791


Samples Received: 02/20/15

Client Project: USA01-01LW

Description: USA01-01LW Pit Sampling

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

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# REPORT OF ANALYSIS

February 26, 2015

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

Date Received : February 20, 2015  
Description : USA01-01LW Pit Sampling  
Sample ID : 20150218-USA01-OILW PIT 1.5  
Collected By : Dustin Held  
Collection Date : 02/18/15 09:05

ESC Sample # : L749791-01

Site ID : USA01-014W

Project # : USA01-01LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	02/24/15	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8015D/GRO	02/24/15	1
TPH (GC/FID) High Fraction	310	4.0	mg/kg	8015D/DRO	02/23/15	1
Surrogate recovery(%)						
o-Terphenyl	78.2		% Rec.	8015D/DRO	02/23/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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# REPORT OF ANALYSIS

February 26, 2015

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EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

Date Received : February 20, 2015  
Description : USA01-01LW Pit Sampling  
Sample ID : 20150218-USA01-OILW PIT 3  
Collected By : Dustin Held  
Collection Date : 02/18/15 09:10

ESC Sample # : L749791-02

Site ID : USA01-014W

Project # : USA01-01LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	02/24/15	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8015D/GRO	02/24/15	1
TPH (GC/FID) High Fraction	100	4.0	mg/kg	8015D/DRO	02/23/15	1
Surrogate recovery(%)						
o-Terphenyl	73.0		% Rec.	8015D/DRO	02/23/15	1

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# REPORT OF ANALYSIS

February 26, 2015

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

Date Received : February 20, 2015  
Description : USA01-01LW Pit Sampling  
Sample ID : 20150218-USA01-OILW PIT 5  
Collected By : Dustin Held  
Collection Date : 02/18/15 09:25

ESC Sample # : L749791-03

Site ID : USA01-014W

Project # : USA01-01LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	02/24/15	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8015D/GRO	02/24/15	1
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	8015D/DRO	02/23/15	1
Surrogate recovery(%)						
o-Terphenyl	91.7		% Rec.	8015D/DRO	02/23/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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# REPORT OF ANALYSIS

February 26, 2015

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

Date Received : February 20, 2015  
Description : USA01-01LW Pit Sampling  
Sample ID : 20150218-USA01-OILW PIT 7  
Collected By : Dustin Held  
Collection Date : 02/18/15 09:35

ESC Sample # : L749791-04

Site ID : USA01-014W

Project # : USA01-01LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	02/24/15	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8015D/GRO	02/24/15	1
TPH (GC/FID) High Fraction	40.	4.0	mg/kg	8015D/DRO	02/23/15	1
Surrogate recovery(%)						
o-Terphenyl	92.5		% Rec.	8015D/DRO	02/23/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

## Report Summary

Thursday May 29, 2014

Report Number: L700579

Samples Received: 05/22/14

Client Project: USA01-01LW

Description: USA01-01LW PIT

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

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FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

May 29, 2014

Date Received : May 22, 2014  
Description : USA01-01LW PIT  
Sample ID : 20140520-USA01-01LW PIT NW01 5-7FT  
Collected By : Dustin Held  
Collection Date : 05/20/14 09:05

ESC Sample # : L700579-01

Site ID : USA01-01LW

Project # : USA01-01LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	05/23/14	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.4		% Rec.	602/8015	05/23/14	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	8015D/DRO	05/28/14	1
Surrogate recovery(%) o-Terphenyl	77.5		% Rec.	8015D/DRO	05/28/14	1
Polynuclear Aromatic Hydrocarbons						
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Surrogate Recovery						
p-Terphenyl-d14	69.5		% Rec.	8270C-SIM	05/26/14	1
Nitrobenzene-d5	61.9		% Rec.	8270C-SIM	05/26/14	1
2-Fluorobiphenyl	69.0		% Rec.	8270C-SIM	05/26/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

May 29, 2014

Date Received : May 22, 2014  
Description : USA01-01LW PIT  
Sample ID : 20140520-USA01-01LW PIT NW01 10-12FT  
Collected By : Dustin Held  
Collection Date : 05/20/14 09:15

ESC Sample # : L700579-02

Site ID : USA01-01LW

Project # : USA01-01LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	05/23/14	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.3		% Rec.	602/8015	05/23/14	5
TPH (GC/FID) High Fraction	120	20.	mg/kg	8015D/DRO	05/28/14	5
Surrogate recovery(%) o-Terphenyl	62.5		% Rec.	8015D/DRO	05/28/14	5
Polynuclear Aromatic Hydrocarbons						
Benzo(a)anthracene	0.014	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Surrogate Recovery						
p-Terphenyl-d14	72.6		% Rec.	8270C-SIM	05/26/14	1
Nitrobenzene-d5	66.4		% Rec.	8270C-SIM	05/26/14	1
2-Fluorobiphenyl	74.2		% Rec.	8270C-SIM	05/26/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

May 29, 2014

Date Received : May 22, 2014  
Description : USA01-01LW PIT  
Sample ID : 20140520-USA01-01LW PIT SW01 10-12FT  
Collected By : Dustin Held  
Collection Date : 05/20/14 09:55

ESC Sample # : L700579-03

Site ID : USA01-01LW

Project # : USA01-01LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	05/23/14	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.5		% Rec.	602/8015	05/23/14	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	8015D/DRO	05/28/14	1
Surrogate recovery(%) o-Terphenyl	80.3		% Rec.	8015D/DRO	05/28/14	1
Polynuclear Aromatic Hydrocarbons						
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Surrogate Recovery						
p-Terphenyl-d14	75.8		% Rec.	8270C-SIM	05/26/14	1
Nitrobenzene-d5	68.3		% Rec.	8270C-SIM	05/26/14	1
2-Fluorobiphenyl	76.4		% Rec.	8270C-SIM	05/26/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

May 29, 2014

Date Received : May 22, 2014  
Description : USA01-01LW PIT  
Sample ID : 20140520-USA01-01LW PIT SW01 15-17FT  
Collected By : Dustin Held  
Collection Date : 05/20/14 10:25

ESC Sample # : L700579-04

Site ID : USA01-01LW

Project # : USA01-01LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	05/23/14	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.8		% Rec.	602/8015	05/23/14	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	8015D/DRO	05/28/14	1
Surrogate recovery(%) o-Terphenyl	81.9		% Rec.	8015D/DRO	05/28/14	1
Polynuclear Aromatic Hydrocarbons						
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Surrogate Recovery						
p-Terphenyl-d14	83.5		% Rec.	8270C-SIM	05/26/14	1
Nitrobenzene-d5	71.2		% Rec.	8270C-SIM	05/26/14	1
2-Fluorobiphenyl	81.7		% Rec.	8270C-SIM	05/26/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

May 29, 2014

Date Received : May 22, 2014  
Description : USA01-01LW PIT  
Sample ID : 20140520-USA01-01LW PIT NE01 5-7FT  
Collected By : Dustin Held  
Collection Date : 05/20/14 13:05

ESC Sample # : L700579-05

Site ID : USA01-01LW

Project # : USA01-01LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	05/23/14	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.2		% Rec.	602/8015	05/23/14	5
TPH (GC/FID) High Fraction	440	20.	mg/kg	8015D/DRO	05/28/14	5
Surrogate recovery(%) o-Terphenyl	70.5		% Rec.	8015D/DRO	05/28/14	5
Polynuclear Aromatic Hydrocarbons						
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(b)fluoranthene	0.016	0.0060	mg/kg	8270C-SIM	05/26/14	1
Surrogate Recovery						
p-Terphenyl-d14	80.4		% Rec.	8270C-SIM	05/26/14	1
Nitrobenzene-d5	74.4		% Rec.	8270C-SIM	05/26/14	1
2-Fluorobiphenyl	82.9		% Rec.	8270C-SIM	05/26/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

May 29, 2014

Date Received : May 22, 2014  
Description : USA01-01LW PIT  
Sample ID : 20140520-USA01-01LW PIT NE01 15-17FT  
Collected By : Dustin Held  
Collection Date : 05/20/14 13:15

ESC Sample # : L700579-06

Site ID : USA01-01LW

Project # : USA01-01LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	05/23/14	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.1		% Rec.	602/8015	05/23/14	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	8015D/DRO	05/28/14	1
Surrogate recovery(%) o-Terphenyl	79.1		% Rec.	8015D/DRO	05/28/14	1
Polynuclear Aromatic Hydrocarbons						
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Surrogate Recovery						
p-Terphenyl-d14	74.7		% Rec.	8270C-SIM	05/26/14	1
Nitrobenzene-d5	66.0		% Rec.	8270C-SIM	05/26/14	1
2-Fluorobiphenyl	77.9		% Rec.	8270C-SIM	05/26/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

May 29, 2014

Date Received : May 22, 2014  
Description : USA01-01LW PIT  
Sample ID : 20140520-USA01-01LW PIT SE01 10-12FT  
Collected By : Dustin Held  
Collection Date : 05/20/14 12:10

ESC Sample # : L700579-07

Site ID : USA01-01LW

Project # : USA01-01LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	05/23/14	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.1		% Rec.	602/8015	05/23/14	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	8015D/DRO	05/28/14	1
Surrogate recovery(%) o-Terphenyl	96.5		% Rec.	8015D/DRO	05/28/14	1
Polynuclear Aromatic Hydrocarbons						
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Surrogate Recovery						
p-Terphenyl-d14	79.3		% Rec.	8270C-SIM	05/26/14	1
Nitrobenzene-d5	68.9		% Rec.	8270C-SIM	05/26/14	1
2-Fluorobiphenyl	80.7		% Rec.	8270C-SIM	05/26/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

May 29, 2014

Date Received : May 22, 2014  
Description : USA01-01LW PIT  
Sample ID : 20140520-USA01-01LW PIT SE01 15-17FT  
Collected By : Dustin Held  
Collection Date : 05/20/14 12:25

ESC Sample # : L700579-08

Site ID : USA01-01LW

Project # : USA01-01LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	05/23/14	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.4		% Rec.	602/8015	05/23/14	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	8015D/DRO	05/28/14	1
Surrogate recovery(%) o-Terphenyl	76.5		% Rec.	8015D/DRO	05/28/14	1
Polynuclear Aromatic Hydrocarbons						
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	05/26/14	1
Surrogate Recovery						
p-Terphenyl-d14	80.0		% Rec.	8270C-SIM	05/26/14	1
Nitrobenzene-d5	70.2		% Rec.	8270C-SIM	05/26/14	1
2-Fluorobiphenyl	80.8		% Rec.	8270C-SIM	05/26/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 05/29/14 10:31 Printed: 05/29/14 10:47

Summary of Remarks For Samples Printed  
05/29/14 at 10:47:49

TSR Signing Reports: 358  
R5 - Desired TAT

Log all PAHs as PAHSIM. Log all BTEX waters by 8260. Log ALL samples for EDD (COGCC EDD).

Sample: L700579-01 Account: ENCANACO Received: 05/22/14 09:30 Due Date: 05/30/14 00:00 RPT Date: 05/29/14 10:31

Sample: L700579-02 Account: ENCANACO Received: 05/22/14 09:30 Due Date: 05/30/14 00:00 RPT Date: 05/29/14 10:31

Sample: L700579-03 Account: ENCANACO Received: 05/22/14 09:30 Due Date: 05/30/14 00:00 RPT Date: 05/29/14 10:31

Sample: L700579-04 Account: ENCANACO Received: 05/22/14 09:30 Due Date: 05/30/14 00:00 RPT Date: 05/29/14 10:31

Sample: L700579-05 Account: ENCANACO Received: 05/22/14 09:30 Due Date: 05/30/14 00:00 RPT Date: 05/29/14 10:31

Sample: L700579-06 Account: ENCANACO Received: 05/22/14 09:30 Due Date: 05/30/14 00:00 RPT Date: 05/29/14 10:31

Sample: L700579-07 Account: ENCANACO Received: 05/22/14 09:30 Due Date: 05/30/14 00:00 RPT Date: 05/29/14 10:31

Sample: L700579-08 Account: ENCANACO Received: 05/22/14 09:30 Due Date: 05/30/14 00:00 RPT Date: 05/29/14 10:31



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Est. 1970

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

## Report Summary

Monday December 02, 2013

Report Number: L669245


Samples Received: 11/16/13

Client Project: PIT SAMPLING

Description: USA01-01LW

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

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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Est. 1970

# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 02, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
Sample ID : 111313-USA01-01W(PIT01) 4.5 FT  
Collected By : Dustin Held  
Collection Date : 11/13/13 09:35

ESC Sample # : L669245-01  
Site ID : USA01-01LW  
Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	10.	mg/kg	3060A/7196A	11/21/13	5
Chromium, Trivalent	BDL	10.	mg/kg	Calc.	11/23/13	1
ORP	25.		mV	2580 B-2011	11/21/13	1
pH	8.3		su	9045D	11/23/13	1
Sodium Adsorption Ratio	15.			Calc.	11/18/13	1
Specific Conductance	12.		umhos/cm	9050AMod	11/22/13	1
Mercury	BDL	0.020	mg/kg	7471	11/21/13	1
Arsenic	1.1	1.0	mg/kg	6010B	11/23/13	1
Barium	1100	0.25	mg/kg	6010B	11/23/13	1
Cadmium	BDL	0.25	mg/kg	6010B	11/23/13	1
Chromium	8.4	0.50	mg/kg	6010B	11/23/13	1
Copper	10.	1.0	mg/kg	6010B	11/23/13	1
Lead	7.9	0.25	mg/kg	6010B	11/23/13	1
Nickel	5.7	1.0	mg/kg	6010B	11/23/13	1
Selenium	1.0	1.0	mg/kg	6010B	11/23/13	1
Silver	BDL	0.50	mg/kg	6010B	11/23/13	1
Zinc	31.	1.5	mg/kg	6010B	11/23/13	1
TPH (GC/FID) Low Fraction	20.	0.50	mg/kg	8015D/GRO	11/18/13	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	88.6		% Rec.	602/8015	11/18/13	5
Benzene	BDL	0.0050	mg/kg	8260B	11/20/13	5
Toluene	BDL	0.025	mg/kg	8260B	11/20/13	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	11/20/13	5
Total Xylenes	BDL	0.015	mg/kg	8260B	11/20/13	5
Surrogate Recovery						
Toluene-d8	98.0		% Rec.	8260B	11/20/13	5
Dibromofluoromethane	92.3		% Rec.	8260B	11/20/13	5
a,a,a-Trifluorotoluene	104.		% Rec.	8260B	11/20/13	5
4-Bromofluorobenzene	126.		% Rec.	8260B	11/20/13	5
TPH (GC/FID) High Fraction	26000	400	mg/kg	8015D/DRO	11/22/13	100
Surrogate recovery(%) o-Terphenyl	0.00		% Rec.	8015D/DRO	11/22/13	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/25/13 16:56 Revised: 12/02/13 14:34

L669245-01 (PH) - 8.3@20.7c

L669245-01 (CR6) - diluted due to sample color





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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 02, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
Sample ID : 111313-USA01-01W(PIT01) 9.5 FT  
Collected By : Dustin Held  
Collection Date : 11/13/13 10:40

ESC Sample # : L669245-02  
Site ID : USA01-01LW  
Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	11/21/13	1
Chromium, Trivalent	15.	2.0	mg/kg	Calc.	11/23/13	1
ORP	50.		mV	2580 B-2011	11/21/13	1
pH	8.0		su	9045D	11/23/13	1
Sodium Adsorption Ratio	8.1			Calc.	11/18/13	1
Specific Conductance	14.		umhos/cm	9050AMod	11/22/13	1
Mercury	BDL	0.020	mg/kg	7471	11/21/13	1
Arsenic	3.7	1.0	mg/kg	6010B	11/23/13	1
Barium	350	0.25	mg/kg	6010B	11/23/13	1
Cadmium	0.26	0.25	mg/kg	6010B	11/23/13	1
Chromium	15.	0.50	mg/kg	6010B	11/23/13	1
Copper	16.	1.0	mg/kg	6010B	11/23/13	1
Lead	10.	0.25	mg/kg	6010B	11/23/13	1
Nickel	11.	1.0	mg/kg	6010B	11/23/13	1
Selenium	BDL	1.0	mg/kg	6010B	11/23/13	1
Silver	BDL	0.50	mg/kg	6010B	11/23/13	1
Zinc	54.	1.5	mg/kg	6010B	11/23/13	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	11/18/13	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.7		% Rec.	602/8015	11/18/13	5
Benzene	BDL	0.0050	mg/kg	8260B	11/20/13	5
Toluene	BDL	0.025	mg/kg	8260B	11/20/13	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	11/20/13	5
Total Xylenes	BDL	0.015	mg/kg	8260B	11/20/13	5
Surrogate Recovery						
Toluene-d8	96.3		% Rec.	8260B	11/20/13	5
Dibromofluoromethane	100.		% Rec.	8260B	11/20/13	5
a,a,a-Trifluorotoluene	112.		% Rec.	8260B	11/20/13	5
4-Bromofluorobenzene	105.		% Rec.	8260B	11/20/13	5
TPH (GC/FID) High Fraction	4.2	4.0	mg/kg	8015D/DRO	11/21/13	1
Surrogate recovery(%) o-Terphenyl	87.3		% Rec.	8015D/DRO	11/21/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/25/13 16:56 Revised: 12/02/13 14:34  
L669245-02 (PH) - 8.0@19.8c



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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 02, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
Sample ID : 111313-USA01-01W(PITW01) 4.5 FT  
Collected By : Dustin Held  
Collection Date : 11/13/13 11:25

ESC Sample # : L669245-03  
Site ID : USA01-01LW  
Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	11/21/13	1
Chromium, Trivalent	14.	2.0	mg/kg	Calc.	11/23/13	1
ORP	35.		mV	2580 B-2011	11/21/13	1
pH	8.6		su	9045D	11/23/13	1
Sodium Adsorption Ratio	17.			Calc.	11/23/13	1
Specific Conductance	12.		umhos/cm	9050AMod	11/22/13	1
Mercury	BDL	0.020	mg/kg	7471	11/21/13	1
Arsenic	2.9	1.0	mg/kg	6010B	11/23/13	1
Barium	1500	0.25	mg/kg	6010B	11/23/13	1
Cadmium	0.40	0.25	mg/kg	6010B	11/23/13	1
Chromium	14.	0.50	mg/kg	6010B	11/23/13	1
Copper	17.	1.0	mg/kg	6010B	11/23/13	1
Lead	16.	0.25	mg/kg	6010B	11/23/13	1
Nickel	11.	1.0	mg/kg	6010B	11/23/13	1
Selenium	BDL	1.0	mg/kg	6010B	11/23/13	1
Silver	BDL	0.50	mg/kg	6010B	11/23/13	1
Zinc	54.	1.5	mg/kg	6010B	11/23/13	1
TPH (GC/FID) Low Fraction	1900	100	mg/kg	8015D/GRO	11/20/13	1000
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	91.8		% Rec.	602/8015	11/20/13	1000
Benzene	BDL	0.10	mg/kg	8260B	11/20/13	100
Toluene	BDL	0.50	mg/kg	8260B	11/20/13	100
Ethylbenzene	BDL	0.10	mg/kg	8260B	11/20/13	100
Total Xylenes	8.1	0.30	mg/kg	8260B	11/20/13	100
Surrogate Recovery						
Toluene-d8	93.9		% Rec.	8260B	11/20/13	100
Dibromofluoromethane	90.2		% Rec.	8260B	11/20/13	100
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	11/20/13	100
4-Bromofluorobenzene	138.		% Rec.	8260B	11/20/13	100
TPH (GC/FID) High Fraction	31000	400	mg/kg	8015D/DRO	11/22/13	100
Surrogate recovery(%) o-Terphenyl	0.00		% Rec.	8015D/DRO	11/22/13	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/25/13 16:56 Revised: 12/02/13 14:34

L669245-03 (PH) - 8.6@20.5c

L669245-03 (V8260BTEX) - Non-target compounds too high to run at a lower dilution.



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Est. 1970

# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 02, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
Sample ID : 111313-USA01-01W(PITW01) 9.5 FT  
Collected By : Dustin Held  
Collection Date : 11/13/13 11:30

ESC Sample # : L669245-04  
Site ID : USA01-01LW  
Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	11/21/13	1
Chromium, Trivalent	19.	2.0	mg/kg	Calc.	11/23/13	1
ORP	51.		mV	2580 B-2011	11/21/13	1
pH	7.6		su	9045D	11/23/13	1
Sodium Adsorption Ratio	8.2			Calc.	11/23/13	1
Specific Conductance	12.		umhos/cm	9050AMod	11/22/13	1
Mercury	BDL	0.020	mg/kg	7471	11/21/13	1
Arsenic	4.7	1.0	mg/kg	6010B	11/23/13	1
Barium	180	0.25	mg/kg	6010B	11/23/13	1
Cadmium	BDL	0.25	mg/kg	6010B	11/23/13	1
Chromium	19.	0.50	mg/kg	6010B	11/23/13	1
Copper	15.	1.0	mg/kg	6010B	11/23/13	1
Lead	14.	0.25	mg/kg	6010B	11/23/13	1
Nickel	20.	1.0	mg/kg	6010B	11/23/13	1
Selenium	1.8	1.0	mg/kg	6010B	11/23/13	1
Silver	BDL	0.50	mg/kg	6010B	11/23/13	1
Zinc	81.	1.5	mg/kg	6010B	11/23/13	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	11/18/13	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	100.		% Rec.	602/8015	11/18/13	5
Benzene	BDL	0.0050	mg/kg	8260B	11/20/13	5
Toluene	BDL	0.025	mg/kg	8260B	11/20/13	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	11/20/13	5
Total Xylenes	BDL	0.015	mg/kg	8260B	11/20/13	5
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260B	11/20/13	5
Dibromofluoromethane	99.6		% Rec.	8260B	11/20/13	5
a,a,a-Trifluorotoluene	110.		% Rec.	8260B	11/20/13	5
4-Bromofluorobenzene	111.		% Rec.	8260B	11/20/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	8015D/DRO	11/21/13	1
Surrogate recovery(%) o-Terphenyl	87.1		% Rec.	8015D/DRO	11/21/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/25/13 16:56 Revised: 12/02/13 14:34  
L669245-04 (PH) - 7.6@19.1c



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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 02, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
Sample ID : 111313-USA01-01W(PITW02) 7 FT  
Collected By : Dustin Held  
Collection Date : 11/13/13 11:40

ESC Sample # : L669245-05  
Site ID : USA01-01LW  
Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	11/21/13	1
Chromium, Trivalent	18.	2.0	mg/kg	Calc.	11/23/13	1
ORP	67.		mV	2580 B-2011	11/21/13	1
pH	7.6		su	9045D	11/23/13	1
Sodium Adsorption Ratio	7.9			Calc.	11/23/13	1
Specific Conductance	12.		umhos/cm	9050AMod	11/22/13	1
Mercury	BDL	0.020	mg/kg	7471	11/21/13	1
Arsenic	4.3	1.0	mg/kg	6010B	11/23/13	1
Barium	190	0.25	mg/kg	6010B	11/23/13	1
Cadmium	BDL	0.25	mg/kg	6010B	11/23/13	1
Chromium	18.	0.50	mg/kg	6010B	11/23/13	1
Copper	16.	1.0	mg/kg	6010B	11/23/13	1
Lead	16.	0.25	mg/kg	6010B	11/23/13	1
Nickel	19.	1.0	mg/kg	6010B	11/23/13	1
Selenium	1.4	1.0	mg/kg	6010B	11/23/13	1
Silver	BDL	0.50	mg/kg	6010B	11/23/13	1
Zinc	67.	1.5	mg/kg	6010B	11/23/13	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	11/18/13	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.6		% Rec.	602/8015	11/18/13	5
Benzene	BDL	0.0050	mg/kg	8260B	11/20/13	5
Toluene	BDL	0.025	mg/kg	8260B	11/20/13	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	11/20/13	5
Total Xylenes	BDL	0.015	mg/kg	8260B	11/20/13	5
Surrogate Recovery						
Toluene-d8	98.3		% Rec.	8260B	11/20/13	5
Dibromofluoromethane	99.3		% Rec.	8260B	11/20/13	5
a,a,a-Trifluorotoluene	107.		% Rec.	8260B	11/20/13	5
4-Bromofluorobenzene	105.		% Rec.	8260B	11/20/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	8015D/DRO	11/21/13	1
Surrogate recovery(%) o-Terphenyl	90.7		% Rec.	8015D/DRO	11/21/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/25/13 16:56 Revised: 12/02/13 14:34  
L669245-05 (PH) - 7.6@18.6c





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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 02, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
Sample ID : 111313-USA01-01W(PITS01) 9.5 FT  
Collected By : Dustin Held  
Collection Date : 11/13/13 12:50

ESC Sample # : L669245-06  
Site ID : USA01-01LW  
Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	11/21/13	1
Chromium, Trivalent	13.	2.0	mg/kg	Calc.	11/23/13	1
ORP	78.		mV	2580 B-2011	11/21/13	1
pH	7.7		su	9045D	11/23/13	1
Sodium Adsorption Ratio	8.0			Calc.	11/23/13	1
Specific Conductance	13.		umhos/cm	9050AMod	11/22/13	1
Mercury	BDL	0.020	mg/kg	7471	11/21/13	1
Arsenic	2.9	1.0	mg/kg	6010B	11/23/13	1
Barium	360	0.25	mg/kg	6010B	11/23/13	1
Cadmium	0.29	0.25	mg/kg	6010B	11/23/13	1
Chromium	13.	0.50	mg/kg	6010B	11/23/13	1
Copper	15.	1.0	mg/kg	6010B	11/23/13	1
Lead	10.	0.25	mg/kg	6010B	11/23/13	1
Nickel	11.	1.0	mg/kg	6010B	11/23/13	1
Selenium	1.3	1.0	mg/kg	6010B	11/23/13	1
Silver	BDL	0.50	mg/kg	6010B	11/23/13	1
Zinc	47.	1.5	mg/kg	6010B	11/23/13	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	11/18/13	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.5		% Rec.	602/8015	11/18/13	5
Benzene	BDL	0.0050	mg/kg	8260B	11/20/13	5
Toluene	BDL	0.025	mg/kg	8260B	11/20/13	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	11/20/13	5
Total Xylenes	BDL	0.015	mg/kg	8260B	11/20/13	5
Surrogate Recovery						
Toluene-d8	98.0		% Rec.	8260B	11/20/13	5
Dibromofluoromethane	98.2		% Rec.	8260B	11/20/13	5
a,a,a-Trifluorotoluene	110.		% Rec.	8260B	11/20/13	5
4-Bromofluorobenzene	100.		% Rec.	8260B	11/20/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	8015D/DRO	11/21/13	1
Surrogate recovery(%) o-Terphenyl	165.		% Rec.	8015D/DRO	11/21/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/25/13 16:56 Revised: 12/02/13 14:34  
L669245-06 (PH) - 7.7@18.9c



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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 02, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
Sample ID : 111313-USA01-01W(PITE01) 9.5 FT  
Collected By : Dustin Held  
Collection Date : 11/13/13 13:15

ESC Sample # : L669245-07  
Site ID : USA01-01LW  
Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	11/21/13	1
Chromium, Trivalent	13.	2.0	mg/kg	Calc.	11/23/13	1
ORP	79.		mV	2580 B-2011	11/21/13	1
pH	7.7		su	9045D	11/23/13	1
Sodium Adsorption Ratio	6.2			Calc.	11/23/13	1
Specific Conductance	14.		umhos/cm	9050AMod	11/22/13	1
Mercury	BDL	0.020	mg/kg	7471	11/21/13	1
Arsenic	3.8	1.0	mg/kg	6010B	11/23/13	1
Barium	310	0.25	mg/kg	6010B	11/23/13	1
Cadmium	BDL	0.25	mg/kg	6010B	11/23/13	1
Chromium	13.	0.50	mg/kg	6010B	11/23/13	1
Copper	16.	1.0	mg/kg	6010B	11/23/13	1
Lead	10.	0.25	mg/kg	6010B	11/23/13	1
Nickel	11.	1.0	mg/kg	6010B	11/23/13	1
Selenium	1.2	1.0	mg/kg	6010B	11/23/13	1
Silver	BDL	0.50	mg/kg	6010B	11/23/13	1
Zinc	54.	1.5	mg/kg	6010B	11/23/13	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	11/18/13	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.6		% Rec.	602/8015	11/18/13	5
Benzene	BDL	0.0050	mg/kg	8260B	11/20/13	5
Toluene	BDL	0.025	mg/kg	8260B	11/20/13	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	11/20/13	5
Total Xylenes	BDL	0.015	mg/kg	8260B	11/20/13	5
Surrogate Recovery						
Toluene-d8	99.2		% Rec.	8260B	11/20/13	5
Dibromofluoromethane	99.4		% Rec.	8260B	11/20/13	5
a,a,a-Trifluorotoluene	108.		% Rec.	8260B	11/20/13	5
4-Bromofluorobenzene	107.		% Rec.	8260B	11/20/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	8015D/DRO	11/22/13	1
Surrogate recovery(%) o-Terphenyl	65.5		% Rec.	8015D/DRO	11/22/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/25/13 16:56 Revised: 12/02/13 14:34  
L669245-07 (PH) - 7.7@18.6c



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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 02, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
Sample ID : 111313-USA01-01W(PITN01) 9.5 FT  
Collected By : Dustin Held  
Collection Date : 11/13/13 12:25

ESC Sample # : L669245-08  
Site ID : USA01-01LW  
Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	11/21/13	1
Chromium, Trivalent	15.	2.0	mg/kg	Calc.	11/23/13	1
ORP	180		mV	2580 B-2011	11/21/13	1
pH	7.8		su	9045D	11/23/13	1
Sodium Adsorption Ratio	5.2			Calc.	11/23/13	1
Specific Conductance	12.		umhos/cm	9050AMod	11/22/13	1
Mercury	BDL	0.020	mg/kg	7471	11/21/13	1
Arsenic	2.4	1.0	mg/kg	6010B	11/23/13	1
Barium	410	0.25	mg/kg	6010B	11/23/13	1
Cadmium	BDL	0.25	mg/kg	6010B	11/23/13	1
Chromium	15.	0.50	mg/kg	6010B	11/23/13	1
Copper	18.	1.0	mg/kg	6010B	11/23/13	1
Lead	19.	0.25	mg/kg	6010B	11/23/13	1
Nickel	10.	1.0	mg/kg	6010B	11/23/13	1
Selenium	BDL	1.0	mg/kg	6010B	11/23/13	1
Silver	BDL	0.50	mg/kg	6010B	11/23/13	1
Zinc	52.	1.5	mg/kg	6010B	11/23/13	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	11/18/13	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	98.8		% Rec.	602/8015	11/18/13	5
Benzene	BDL	0.0050	mg/kg	8260B	11/20/13	5
Toluene	BDL	0.025	mg/kg	8260B	11/20/13	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	11/20/13	5
Total Xylenes	BDL	0.015	mg/kg	8260B	11/20/13	5
Surrogate Recovery						
Toluene-d8	99.2		% Rec.	8260B	11/20/13	5
Dibromofluoromethane	102.		% Rec.	8260B	11/20/13	5
a,a,a-Trifluorotoluene	110.		% Rec.	8260B	11/20/13	5
4-Bromofluorobenzene	101.		% Rec.	8260B	11/20/13	5
TPH (GC/FID) High Fraction	330	4.0	mg/kg	8015D/DRO	11/22/13	1
Surrogate recovery(%) o-Terphenyl	65.0		% Rec.	8015D/DRO	11/22/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/25/13 16:56 Revised: 12/02/13 14:34  
L669245-08 (PH) - 7.8@18.3c

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L669245-01	WG693233	SAMP	o-Terphenyl	R2859157	J7
	WG693036	SAMP	Chromium, Hexavalent	R2858180	O
L669245-03	WG692808	SAMP	4-Bromofluorobenzene	R2858125	J1
	WG693233	SAMP	o-Terphenyl	R2859157	J7
L669245-06	WG693233	SAMP	o-Terphenyl	R2858752	J1
L669245-07	WG693413	SAMP	TPH (GC/FID) High Fraction	R2858753	J3



Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
J3	The associated batch QC was outside the established quality control range for precision.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
0	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

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

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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Est. 1970

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

## Report Summary

Thursday December 05, 2013

Report Number: L671866


Samples Received: 11/16/13

Client Project: PIT SAMPLING

Description: USA01-01LW

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

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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Est. 1970

# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 05, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
Sample ID : 111313-USA01-01W(PIT01) 4.5 FT  
Collected By : Dustin Held  
Collection Date : 11/13/13 09:35

ESC Sample # : L671866-01  
Site ID : USA01-01LW  
Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Anthracene	6.8	0.30	mg/kg	8270C-SIM	12/05/13	50
Acenaphthene	2.0	0.30	mg/kg	8270C-SIM	12/05/13	50
Acenaphthylene	BDL	0.30	mg/kg	8270C-SIM	12/05/13	50
Benzo(a)anthracene	0.79	0.30	mg/kg	8270C-SIM	12/05/13	50
Benzo(a)pyrene	BDL	0.30	mg/kg	8270C-SIM	12/05/13	50
Benzo(b)fluoranthene	0.30	0.30	mg/kg	8270C-SIM	12/05/13	50
Benzo(g,h,i)perylene	BDL	0.30	mg/kg	8270C-SIM	12/05/13	50
Benzo(k)fluoranthene	BDL	0.30	mg/kg	8270C-SIM	12/05/13	50
Chrysene	0.47	0.30	mg/kg	8270C-SIM	12/05/13	50
Dibenz(a,h)anthracene	BDL	0.30	mg/kg	8270C-SIM	12/05/13	50
Fluoranthene	1.5	0.30	mg/kg	8270C-SIM	12/05/13	50
Fluorene	8.7	0.30	mg/kg	8270C-SIM	12/05/13	50
Indeno(1,2,3-cd)pyrene	BDL	0.30	mg/kg	8270C-SIM	12/05/13	50
Naphthalene	1.2	1.0	mg/kg	8270C-SIM	12/05/13	50
Phenanthrene	15.	0.30	mg/kg	8270C-SIM	12/05/13	50
Pyrene	1.4	0.30	mg/kg	8270C-SIM	12/05/13	50
1-Methylnaphthalene	18.	1.0	mg/kg	8270C-SIM	12/05/13	50
2-Methylnaphthalene	27.	1.0	mg/kg	8270C-SIM	12/05/13	50
2-Chloronaphthalene	BDL	1.0	mg/kg	8270C-SIM	12/05/13	50
Surrogate Recovery						
Nitrobenzene-d5	876.		% Rec.	8270C-SIM	12/05/13	50
2-Fluorobiphenyl	164.		% Rec.	8270C-SIM	12/05/13	50
p-Terphenyl-d14	140.		% Rec.	8270C-SIM	12/05/13	50

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Est. 1970

# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 05, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
Sample ID : 111313-USA01-01W(PIT01) 9.5 FT  
Collected By : Dustin Held  
Collection Date : 11/13/13 10:40

ESC Sample # : L671866-02

Site ID : USA01-01LW

Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Naphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
1-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
2-Methylnaphthalene	0.021	0.020	mg/kg	8270C-SIM	12/05/13	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
Surrogate Recovery						
Nitrobenzene-d5	104.		% Rec.	8270C-SIM	12/05/13	1
2-Fluorobiphenyl	89.3		% Rec.	8270C-SIM	12/05/13	1
p-Terphenyl-d14	98.7		% Rec.	8270C-SIM	12/05/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 05, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
Sample ID : 111313-USA01-01W(PITW01) 4.5 FT  
Collected By : Dustin Held  
Collection Date : 11/13/13 11:25

ESC Sample # : L671866-03

Site ID : USA01-01LW

Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Anthracene	5.2	0.12	mg/kg	8270C-SIM	12/05/13	20
Acenaphthene	2.4	0.12	mg/kg	8270C-SIM	12/05/13	20
Acenaphthylene	0.34	0.12	mg/kg	8270C-SIM	12/05/13	20
Benzo(a)anthracene	BDL	0.12	mg/kg	8270C-SIM	12/05/13	20
Benzo(a)pyrene	0.13	0.12	mg/kg	8270C-SIM	12/05/13	20
Benzo(b)fluoranthene	0.21	0.12	mg/kg	8270C-SIM	12/05/13	20
Benzo(g,h,i)perylene	0.16	0.12	mg/kg	8270C-SIM	12/05/13	20
Benzo(k)fluoranthene	0.12	0.12	mg/kg	8270C-SIM	12/05/13	20
Chrysene	0.48	0.12	mg/kg	8270C-SIM	12/05/13	20
Dibenz(a,h)anthracene	BDL	0.12	mg/kg	8270C-SIM	12/05/13	20
Fluoranthene	0.92	0.12	mg/kg	8270C-SIM	12/05/13	20
Fluorene	7.3	0.12	mg/kg	8270C-SIM	12/05/13	20
Indeno(1,2,3-cd)pyrene	BDL	0.12	mg/kg	8270C-SIM	12/05/13	20
Naphthalene	9.8	0.40	mg/kg	8270C-SIM	12/05/13	20
Phenanthrene	8.7	0.12	mg/kg	8270C-SIM	12/05/13	20
Pyrene	1.2	0.12	mg/kg	8270C-SIM	12/05/13	20
1-Methylnaphthalene	44.	0.40	mg/kg	8270C-SIM	12/05/13	20
2-Methylnaphthalene	50.	0.40	mg/kg	8270C-SIM	12/05/13	20
2-Chloronaphthalene	BDL	0.40	mg/kg	8270C-SIM	12/05/13	20
Surrogate Recovery						
Nitrobenzene-d5	17700		% Rec.	8270C-SIM	12/05/13	20
2-Fluorobiphenyl	163.		% Rec.	8270C-SIM	12/05/13	20
p-Terphenyl-d14	125.		% Rec.	8270C-SIM	12/05/13	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 05, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
Sample ID : 111313-USA01-01W(PITW01) 9.5 FT  
Collected By : Dustin Held  
Collection Date : 11/13/13 11:30

ESC Sample # : L671866-04  
Site ID : USA01-01LW  
Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Naphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
1-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
2-Methylnaphthalene	0.021	0.020	mg/kg	8270C-SIM	12/05/13	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
Surrogate Recovery						
Nitrobenzene-d5	106.		% Rec.	8270C-SIM	12/05/13	1
2-Fluorobiphenyl	97.5		% Rec.	8270C-SIM	12/05/13	1
p-Terphenyl-d14	110.		% Rec.	8270C-SIM	12/05/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 05, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
Sample ID : 111313-USA01-01W(PITW02) 7 FT  
Collected By : Dustin Held  
Collection Date : 11/13/13 11:40

ESC Sample # : L671866-05

Site ID : USA01-01LW

Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Naphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
1-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
2-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
Surrogate Recovery						
Nitrobenzene-d5	100.		% Rec.	8270C-SIM	12/05/13	1
2-Fluorobiphenyl	106.		% Rec.	8270C-SIM	12/05/13	1
p-Terphenyl-d14	108.		% Rec.	8270C-SIM	12/05/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 05, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
Sample ID : 111313-USA01-01W(PITS01) 9.5 FT  
Collected By : Dustin Held  
Collection Date : 11/13/13 12:50

ESC Sample # : L671866-06

Site ID : USA01-01LW

Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Naphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
1-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
2-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
Surrogate Recovery						
Nitrobenzene-d5	91.5		% Rec.	8270C-SIM	12/05/13	1
2-Fluorobiphenyl	88.1		% Rec.	8270C-SIM	12/05/13	1
p-Terphenyl-d14	89.7		% Rec.	8270C-SIM	12/05/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 05, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
  
Sample ID : 111313-USA01-01W(PITE01) 9.5 FT  
  
Collected By : Dustin Held  
Collection Date : 11/13/13 13:15

ESC Sample # : L671866-07  
  
Site ID : USA01-01LW  
  
Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Naphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
1-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
2-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
Surrogate Recovery						
Nitrobenzene-d5	98.9		% Rec.	8270C-SIM	12/05/13	1
2-Fluorobiphenyl	95.9		% Rec.	8270C-SIM	12/05/13	1
p-Terphenyl-d14	99.6		% Rec.	8270C-SIM	12/05/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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# REPORT OF ANALYSIS

Chris Hines  
EnCana Oil & Gas - Parachute, CO  
143 Diamond Avenue  
Parachute, CO 81635

December 05, 2013

Date Received : November 16, 2013  
Description : USA01-01LW  
Sample ID : 111313-USA01-01W(PITN01) 9.5 FT  
Collected By : Dustin Held  
Collection Date : 11/13/13 12:25

ESC Sample # : L671866-08

Site ID : USA01-01LW

Project # : PIT SAMPLING

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
Naphthalene	0.026	0.020	mg/kg	8270C-SIM	12/05/13	1
Phenanthrene	0.015	0.0060	mg/kg	8270C-SIM	12/05/13	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	12/05/13	1
1-Methylnaphthalene	0.036	0.020	mg/kg	8270C-SIM	12/05/13	1
2-Methylnaphthalene	0.067	0.020	mg/kg	8270C-SIM	12/05/13	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	12/05/13	1
Surrogate Recovery						
Nitrobenzene-d5	96.8		% Rec.	8270C-SIM	12/05/13	1
2-Fluorobiphenyl	92.6		% Rec.	8270C-SIM	12/05/13	1
p-Terphenyl-d14	102.		% Rec.	8270C-SIM	12/05/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 12/05/13 17:05 Printed: 12/05/13 17:12

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L671866-01	WG695573	SAMP	Anthracene	R2863280	T8
	WG695573	SAMP	Acenaphthene	R2863280	T8
	WG695573	SAMP	Acenaphthylene	R2863280	T8
	WG695573	SAMP	Benzo(a)anthracene	R2863280	T8
	WG695573	SAMP	Benzo(a)pyrene	R2863280	T8
	WG695573	SAMP	Benzo(b)fluoranthene	R2863280	T8
	WG695573	SAMP	Benzo(g,h,i)perylene	R2863280	T8
	WG695573	SAMP	Benzo(k)fluoranthene	R2863280	T8
	WG695573	SAMP	Chrysene	R2863280	T8
	WG695573	SAMP	Dibenz(a,h)anthracene	R2863280	T8
	WG695573	SAMP	Fluoranthene	R2863280	T8
	WG695573	SAMP	Fluorene	R2863280	T8
	WG695573	SAMP	Indeno(1,2,3-cd)pyrene	R2863280	J4T8
	WG695573	SAMP	Naphthalene	R2863280	T8
	WG695573	SAMP	Phenanthrene	R2863280	T8
	WG695573	SAMP	Pyrene	R2863280	T8
	WG695573	SAMP	1-Methylnaphthalene	R2863280	T8
	WG695573	SAMP	2-Methylnaphthalene	R2863280	T8
	WG695573	SAMP	2-Chloronaphthalene	R2863280	T8
	WG695573	SAMP	Nitrobenzene-d5	R2863280	J7
	WG695573	SAMP	2-Fluorobiphenyl	R2863280	J7
	WG695573	SAMP	p-Terphenyl-d14	R2863280	J7
L671866-02	WG695573	SAMP	Anthracene	R2863225	T8
	WG695573	SAMP	Acenaphthene	R2863225	T8
	WG695573	SAMP	Acenaphthylene	R2863225	T8
	WG695573	SAMP	Benzo(a)anthracene	R2863225	T8
	WG695573	SAMP	Benzo(a)pyrene	R2863225	T8
	WG695573	SAMP	Benzo(b)fluoranthene	R2863225	T8
	WG695573	SAMP	Benzo(g,h,i)perylene	R2863225	T8
	WG695573	SAMP	Benzo(k)fluoranthene	R2863225	T8
	WG695573	SAMP	Chrysene	R2863225	T8
	WG695573	SAMP	Dibenz(a,h)anthracene	R2863225	T8
	WG695573	SAMP	Fluoranthene	R2863225	T8
	WG695573	SAMP	Fluorene	R2863225	T8
	WG695573	SAMP	Indeno(1,2,3-cd)pyrene	R2863225	T8J4
	WG695573	SAMP	Naphthalene	R2863225	T8
	WG695573	SAMP	Phenanthrene	R2863225	T8
	WG695573	SAMP	Pyrene	R2863225	T8
	WG695573	SAMP	1-Methylnaphthalene	R2863225	T8
	WG695573	SAMP	2-Methylnaphthalene	R2863225	T8
	WG695573	SAMP	2-Chloronaphthalene	R2863225	T8
L671866-03	WG695573	SAMP	Anthracene	R2863280	T8
	WG695573	SAMP	Acenaphthene	R2863280	T8
	WG695573	SAMP	Acenaphthylene	R2863280	T8
	WG695573	SAMP	Benzo(a)anthracene	R2863280	T8
	WG695573	SAMP	Benzo(a)pyrene	R2863280	T8
	WG695573	SAMP	Benzo(b)fluoranthene	R2863280	T8
	WG695573	SAMP	Benzo(g,h,i)perylene	R2863280	T8
	WG695573	SAMP	Benzo(k)fluoranthene	R2863280	T8
	WG695573	SAMP	Chrysene	R2863280	T8
	WG695573	SAMP	Dibenz(a,h)anthracene	R2863280	T8
	WG695573	SAMP	Fluoranthene	R2863280	T8
	WG695573	SAMP	Fluorene	R2863280	T8
	WG695573	SAMP	Indeno(1,2,3-cd)pyrene	R2863280	J4T8
	WG695573	SAMP	Naphthalene	R2863280	T8
	WG695573	SAMP	Phenanthrene	R2863280	T8
	WG695573	SAMP	Pyrene	R2863280	T8
	WG695573	SAMP	1-Methylnaphthalene	R2863280	T8
	WG695573	SAMP	2-Methylnaphthalene	R2863280	T8
	WG695573	SAMP	2-Chloronaphthalene	R2863280	T8
L671866-04	WG695573	SAMP	Nitrobenzene-d5	R2863280	J7
	WG695573	SAMP	2-Fluorobiphenyl	R2863280	J7
	WG695573	SAMP	p-Terphenyl-d14	R2863280	J7
	WG695573	SAMP	Anthracene	R2863225	T8
	WG695573	SAMP	Acenaphthene	R2863225	T8
	WG695573	SAMP	Acenaphthylene	R2863225	T8
	WG695573	SAMP	Benzo(a)anthracene	R2863225	T8
	WG695573	SAMP	Benzo(a)pyrene	R2863225	T8
	WG695573	SAMP	Benzo(b)fluoranthene	R2863225	T8

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
	WG695573	SAMP	Benzo(g,h,i)perylene	R2863225	T8
	WG695573	SAMP	Benzo(k)fluoranthene	R2863225	T8
	WG695573	SAMP	Chrysene	R2863225	T8
	WG695573	SAMP	Dibenz(a,h)anthracene	R2863225	T8
	WG695573	SAMP	Fluoranthene	R2863225	T8
	WG695573	SAMP	Fluorene	R2863225	T8
	WG695573	SAMP	Indeno(1,2,3-cd)pyrene	R2863225	T8J4
	WG695573	SAMP	Naphthalene	R2863225	T8
	WG695573	SAMP	Phenanthrene	R2863225	T8
	WG695573	SAMP	Pyrene	R2863225	T8
	WG695573	SAMP	1-Methylnaphthalene	R2863225	T8
	WG695573	SAMP	2-Methylnaphthalene	R2863225	T8
	WG695573	SAMP	2-Chloronaphthalene	R2863225	T8
L671866-05	WG695573	SAMP	Anthracene	R2863225	T8
	WG695573	SAMP	Acenaphthene	R2863225	T8
	WG695573	SAMP	Acenaphthylene	R2863225	T8
	WG695573	SAMP	Benzo(a)anthracene	R2863225	T8
	WG695573	SAMP	Benzo(a)pyrene	R2863225	T8
	WG695573	SAMP	Benzo(b)fluoranthene	R2863225	T8
	WG695573	SAMP	Benzo(g,h,i)perylene	R2863225	T8
	WG695573	SAMP	Benzo(k)fluoranthene	R2863225	T8
	WG695573	SAMP	Chrysene	R2863225	T8
	WG695573	SAMP	Dibenz(a,h)anthracene	R2863225	T8
	WG695573	SAMP	Fluoranthene	R2863225	T8
	WG695573	SAMP	Fluorene	R2863225	T8
	WG695573	SAMP	Indeno(1,2,3-cd)pyrene	R2863225	T8J4
	WG695573	SAMP	Naphthalene	R2863225	T8
	WG695573	SAMP	Phenanthrene	R2863225	T8
	WG695573	SAMP	Pyrene	R2863225	T8
	WG695573	SAMP	1-Methylnaphthalene	R2863225	T8
	WG695573	SAMP	2-Methylnaphthalene	R2863225	T8
	WG695573	SAMP	2-Chloronaphthalene	R2863225	T8
L671866-06	WG695573	SAMP	Anthracene	R2863225	T8
	WG695573	SAMP	Acenaphthene	R2863225	T8
	WG695573	SAMP	Acenaphthylene	R2863225	T8
	WG695573	SAMP	Benzo(a)anthracene	R2863225	T8
	WG695573	SAMP	Benzo(a)pyrene	R2863225	T8
	WG695573	SAMP	Benzo(b)fluoranthene	R2863225	T8
	WG695573	SAMP	Benzo(g,h,i)perylene	R2863225	T8
	WG695573	SAMP	Benzo(k)fluoranthene	R2863225	T8
	WG695573	SAMP	Chrysene	R2863225	T8
	WG695573	SAMP	Dibenz(a,h)anthracene	R2863225	T8
	WG695573	SAMP	Fluoranthene	R2863225	T8
	WG695573	SAMP	Fluorene	R2863225	T8
	WG695573	SAMP	Indeno(1,2,3-cd)pyrene	R2863225	T8J4
	WG695573	SAMP	Naphthalene	R2863225	T8
	WG695573	SAMP	Phenanthrene	R2863225	T8
	WG695573	SAMP	Pyrene	R2863225	T8
	WG695573	SAMP	1-Methylnaphthalene	R2863225	T8
	WG695573	SAMP	2-Methylnaphthalene	R2863225	T8
	WG695573	SAMP	2-Chloronaphthalene	R2863225	T8
L671866-07	WG695573	SAMP	Anthracene	R2863225	T8
	WG695573	SAMP	Acenaphthene	R2863225	T8
	WG695573	SAMP	Acenaphthylene	R2863225	T8
	WG695573	SAMP	Benzo(a)anthracene	R2863225	T8
	WG695573	SAMP	Benzo(a)pyrene	R2863225	T8
	WG695573	SAMP	Benzo(b)fluoranthene	R2863225	T8
	WG695573	SAMP	Benzo(g,h,i)perylene	R2863225	T8
	WG695573	SAMP	Benzo(k)fluoranthene	R2863225	T8
	WG695573	SAMP	Chrysene	R2863225	T8
	WG695573	SAMP	Dibenz(a,h)anthracene	R2863225	T8
	WG695573	SAMP	Fluoranthene	R2863225	T8
	WG695573	SAMP	Fluorene	R2863225	T8
	WG695573	SAMP	Indeno(1,2,3-cd)pyrene	R2863225	T8J4
	WG695573	SAMP	Naphthalene	R2863225	T8
	WG695573	SAMP	Phenanthrene	R2863225	T8
	WG695573	SAMP	Pyrene	R2863225	T8
	WG695573	SAMP	1-Methylnaphthalene	R2863225	T8
	WG695573	SAMP	2-Methylnaphthalene	R2863225	T8
	WG695573	SAMP	2-Chloronaphthalene	R2863225	T8



Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L671866-08	WG695573	SAMP	Anthracene	R2863225	T8
	WG695573	SAMP	Acenaphthene	R2863225	T8
	WG695573	SAMP	Acenaphthylene	R2863225	T8
	WG695573	SAMP	Benzo(a)anthracene	R2863225	T8
	WG695573	SAMP	Benzo(a)pyrene	R2863225	T8
	WG695573	SAMP	Benzo(b)fluoranthene	R2863225	T8
	WG695573	SAMP	Benzo(g,h,i)perylene	R2863225	T8
	WG695573	SAMP	Benzo(k)fluoranthene	R2863225	T8
	WG695573	SAMP	Chrysene	R2863225	T8
	WG695573	SAMP	Dibenz(a,h)anthracene	R2863225	T8
	WG695573	SAMP	Fluoranthene	R2863225	T8
	WG695573	SAMP	Fluorene	R2863225	T8
	WG695573	SAMP	Indeno(1,2,3-cd)pyrene	R2863225	T8J4
	WG695573	SAMP	Naphthalene	R2863225	T8
	WG695573	SAMP	Phenanthrene	R2863225	T8
	WG695573	SAMP	Pyrene	R2863225	T8
	WG695573	SAMP	1-Methylnaphthalene	R2863225	T8
	WG695573	SAMP	2-Methylnaphthalene	R2863225	T8
	WG695573	SAMP	2-Chloronaphthalene	R2863225	T8

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 cannot be used for control limit evaluation due to dilution.
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.