



12065 Lebanon Rd.
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Est. 1970

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

Report Summary

Wednesday September 07, 2011

Report Number: L533838

Samples Received: 09/01/11

Client Project:

Description: L19-B26A-Spoils

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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REPORT OF ANALYSIS

September 07, 2011

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

ESC Sample # : L533838-01

Date Received : September 01, 2011
 Description : L19-B26A-Spoils

Site ID : L19

Sample ID : L19-B26A-SPOILWE-083011

Project # :

Collected By : Brennan Graff
 Collection Date : 08/30/11 12:12

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	09/03/11	1
Chromium,Trivalent	23.	2.0	mg/kg	Calc.	09/04/11	1
ORP	54.		mV	2580	09/07/11	1
pH	7.5		su	9045D	09/02/11	1
Sodium Adsorption Ratio	6.9			Calc.	09/05/11	1
Specific Conductance	3400		umhos/cm	9050AMod	09/03/11	1
Mercury	0.024	0.020	mg/kg	7471	09/03/11	1
Arsenic	BDL	5.0	mg/kg	6010B	09/04/11	5
Barium	3100	0.25	mg/kg	6010B	09/04/11	1
Cadmium	1.1	0.25	mg/kg	6010B	09/04/11	1
Chromium	23.	0.50	mg/kg	6010B	09/04/11	1
Copper	29.	1.0	mg/kg	6010B	09/04/11	1
Lead	28.	0.25	mg/kg	6010B	09/04/11	1
Nickel	6.7	5.0	mg/kg	6010B	09/04/11	5
Selenium	BDL	5.0	mg/kg	6010B	09/04/11	5
Silver	BDL	0.50	mg/kg	6010B	09/04/11	1
Zinc	52.	1.5	mg/kg	6010B	09/04/11	1
Benzene	BDL	0.0025	mg/kg	8021/8015	09/02/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	09/02/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	09/02/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	09/02/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	09/02/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.1		% Rec.	8021/8015	09/02/11	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	09/02/11	5
TPH (GC/FID) High Fraction	260	4.0	mg/kg	3546/DRO	09/06/11	1
Surrogate recovery(%)						
o-Terphenyl	81.0		% Rec.	3546/DRO	09/06/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.011	0.0060	mg/kg	8270C-SIM	09/03/11	1
Acenaphthene	0.010	0.0060	mg/kg	8270C-SIM	09/03/11	1
Acenaphthylene	0.0088	0.0060	mg/kg	8270C-SIM	09/03/11	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/03/11	1
Benzo(a)pyrene	BDL	0.030	mg/kg	8270C-SIM	09/04/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L533838-01 (PH) - 7.52@20.5c



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

Date Received : September 01, 2011
Description : L19-B26A-Spoils
Sample ID : L19-B26A-SPOILWE-083011
Collected By : Brennan Graff
Collection Date : 08/30/11 12:12

ESC Sample # : L533838-01
Site ID : L19
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	09/04/11	5
Benzo(g,h,i)perylene	BDL	0.030	mg/kg	8270C-SIM	09/04/11	5
Benzo(k)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	09/04/11	5
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	09/03/11	1
Dibenz(a,h)anthracene	BDL	0.030	mg/kg	8270C-SIM	09/04/11	5
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/03/11	1
Fluorene	0.044	0.0060	mg/kg	8270C-SIM	09/03/11	1
Indeno(1,2,3-cd)pyrene	BDL	0.030	mg/kg	8270C-SIM	09/04/11	5
Naphthalene	0.13	0.0060	mg/kg	8270C-SIM	09/03/11	1
Phenanthrene	0.047	0.0060	mg/kg	8270C-SIM	09/03/11	1
Pyrene	0.026	0.0060	mg/kg	8270C-SIM	09/03/11	1
1-Methylnaphthalene	0.098	0.0060	mg/kg	8270C-SIM	09/03/11	1
2-Methylnaphthalene	0.22	0.0060	mg/kg	8270C-SIM	09/03/11	1
2-Chloronaphthalene	0.0077	0.0060	mg/kg	8270C-SIM	09/03/11	1
Surrogate Recovery						
Nitrobenzene-d5	86.9		% Rec.	8270C-SIM	09/03/11	1
2-Fluorobiphenyl	70.2		% Rec.	8270C-SIM	09/03/11	1
p-Terphenyl-d14	114.		% Rec.	8270C-SIM	09/03/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L533838-01 (PH) - 7.52@20.5c



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REPORT OF ANALYSIS

September 07, 2011

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

ESC Sample # : L533838-02

Date Received : September 01, 2011
 Description : L19-B26A-Spoils

Site ID : L19

Sample ID : L19-B26A-SPOILWN-083011

Project # :

Collected By : Brennan Graff
 Collection Date : 08/30/11 12:19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	09/02/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	09/02/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	09/02/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	09/02/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	09/02/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.9		% Rec.	8021/8015	09/02/11	5
a,a,a-Trifluorotoluene(PID)	99.0		% Rec.	8021/8015	09/02/11	5
TPH (GC/FID) High Fraction	360	4.0	mg/kg	3546/DRO	09/06/11	1
Surrogate recovery(%)						
o-Terphenyl	82.0		% Rec.	3546/DRO	09/06/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Naphthalene	0.029	0.0060	mg/kg	8270C-SIM	09/04/11	1
Phenanthrene	0.017	0.0060	mg/kg	8270C-SIM	09/04/11	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
1-Methylnaphthalene	0.019	0.0060	mg/kg	8270C-SIM	09/04/11	1
2-Methylnaphthalene	0.060	0.0060	mg/kg	8270C-SIM	09/04/11	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Surrogate Recovery						
Nitrobenzene-d5	75.2		% Rec.	8270C-SIM	09/04/11	1
2-Fluorobiphenyl	83.9		% Rec.	8270C-SIM	09/04/11	1
p-Terphenyl-d14	79.8		% Rec.	8270C-SIM	09/04/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

September 07, 2011

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

ESC Sample # : L533838-03

Date Received : September 01, 2011
 Description : L19-B26A-Spoils

Site ID : L19

Sample ID : L19-B26A-SPOILWNW-083011

Project # :

Collected By : Brennan Graff
 Collection Date : 08/30/11 12:24

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	09/02/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	09/02/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	09/02/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	09/02/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	09/02/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	95.0		% Rec.	8021/8015	09/02/11	5
a,a,a-Trifluorotoluene(PID)	99.4		% Rec.	8021/8015	09/02/11	5
TPH (GC/FID) High Fraction	14.	4.0	mg/kg	3546/DRO	09/02/11	1
Surrogate recovery(%)						
o-Terphenyl	57.8		% Rec.	3546/DRO	09/02/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Fluorene	0.0068	0.0060	mg/kg	8270C-SIM	09/04/11	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Naphthalene	0.040	0.0060	mg/kg	8270C-SIM	09/04/11	1
Phenanthrene	0.023	0.0060	mg/kg	8270C-SIM	09/04/11	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
1-Methylnaphthalene	0.028	0.0060	mg/kg	8270C-SIM	09/04/11	1
2-Methylnaphthalene	0.081	0.0060	mg/kg	8270C-SIM	09/04/11	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Surrogate Recovery						
Nitrobenzene-d5	101.		% Rec.	8270C-SIM	09/04/11	1
2-Fluorobiphenyl	104.		% Rec.	8270C-SIM	09/04/11	1
p-Terphenyl-d14	103.		% Rec.	8270C-SIM	09/04/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

September 07, 2011

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

ESC Sample # : L533838-04

Date Received : September 01, 2011
 Description : L19-B26A-Spoils

Site ID : L19

Sample ID : L19-B26A-SPOILWW-083011

Project # :

Collected By : Brennan Graff
 Collection Date : 08/30/11 12:29

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	09/02/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	09/02/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	09/02/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	09/02/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	09/02/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.3		% Rec.	8021/8015	09/02/11	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	09/02/11	5
TPH (GC/FID) High Fraction	19.	4.0	mg/kg	3546/DRO	09/02/11	1
Surrogate recovery(%)						
o-Terphenyl	55.6		% Rec.	3546/DRO	09/02/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Acenaphthene	0.035	0.0060	mg/kg	8270C-SIM	09/04/11	1
Acenaphthylene	0.022	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/07/11	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/07/11	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	09/07/11	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/07/11	1
Chrysene	0.015	0.0060	mg/kg	8270C-SIM	09/04/11	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/07/11	1
Fluoranthene	0.0063	0.0060	mg/kg	8270C-SIM	09/04/11	1
Fluorene	0.070	0.0060	mg/kg	8270C-SIM	09/04/11	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/07/11	1
Naphthalene	0.21	0.0060	mg/kg	8270C-SIM	09/04/11	1
Phenanthrene	0.083	0.0060	mg/kg	8270C-SIM	09/04/11	1
Pyrene	0.040	0.0060	mg/kg	8270C-SIM	09/04/11	1
1-Methylnaphthalene	0.18	0.0060	mg/kg	8270C-SIM	09/04/11	1
2-Methylnaphthalene	0.37	0.0060	mg/kg	8270C-SIM	09/04/11	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Surrogate Recovery						
Nitrobenzene-d5	101.		% Rec.	8270C-SIM	09/04/11	1
2-Fluorobiphenyl	68.4		% Rec.	8270C-SIM	09/04/11	1
p-Terphenyl-d14	134.		% Rec.	8270C-SIM	09/04/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

September 07, 2011

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

ESC Sample # : L533838-05

Date Received : September 01, 2011
 Description : L19-B26A-Spoils

Site ID : L19

Sample ID : L19-B26A-SPOILWS-083011

Project # :

Collected By : Brennan Graff
 Collection Date : 08/30/11 12:36

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	09/02/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	09/02/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	09/02/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	09/02/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	09/02/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.9		% Rec.	8021/8015	09/02/11	5
a,a,a-Trifluorotoluene(PID)	98.9		% Rec.	8021/8015	09/02/11	5
TPH (GC/FID) High Fraction	550	20.	mg/kg	3546/DRO	09/07/11	5
Surrogate recovery(%)						
o-Terphenyl	137.		% Rec.	3546/DRO	09/07/11	5
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Acenaphthene	0.017	0.0060	mg/kg	8270C-SIM	09/04/11	1
Acenaphthylene	0.024	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/07/11	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/07/11	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/07/11	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	09/07/11	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/07/11	1
Chrysene	0.017	0.0060	mg/kg	8270C-SIM	09/07/11	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/07/11	1
Fluoranthene	0.012	0.0060	mg/kg	8270C-SIM	09/04/11	1
Fluorene	0.074	0.0060	mg/kg	8270C-SIM	09/04/11	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/07/11	1
Naphthalene	0.28	0.0060	mg/kg	8270C-SIM	09/04/11	1
Phenanthrene	0.10	0.0060	mg/kg	8270C-SIM	09/04/11	1
Pyrene	0.032	0.0060	mg/kg	8270C-SIM	09/07/11	1
1-Methylnaphthalene	0.18	0.0060	mg/kg	8270C-SIM	09/04/11	1
2-Methylnaphthalene	0.43	0.0060	mg/kg	8270C-SIM	09/04/11	1
2-Chloronaphthalene	0.014	0.0060	mg/kg	8270C-SIM	09/04/11	1
Surrogate Recovery						
Nitrobenzene-d5	137.		% Rec.	8270C-SIM	09/04/11	1
2-Fluorobiphenyl	111.		% Rec.	8270C-SIM	09/04/11	1
p-Terphenyl-d14	107.		% Rec.	8270C-SIM	09/07/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

September 07, 2011

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

ESC Sample # : L533838-06

Date Received : September 01, 2011
 Description : L19-B26A-Spoils

Site ID : L19

Sample ID : L19-B26A-SPOILSW-083011

Project # :

Collected By : Brennan Graff
 Collection Date : 08/30/11 12:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	09/03/11	1
Chromium,Trivalent	28.	2.0	mg/kg	Calc.	09/04/11	1
ORP	52.		mV	2580	09/07/11	1
pH	7.7		su	9045D	09/02/11	1
Sodium Adsorption Ratio	6.9			Calc.	09/05/11	1
Specific Conductance	2300		umhos/cm	9050AMod	09/03/11	1
Mercury	0.022	0.020	mg/kg	7471	09/03/11	1
Arsenic	11.	5.0	mg/kg	6010B	09/04/11	5
Barium	3200	0.25	mg/kg	6010B	09/04/11	1
Cadmium	1.0	0.25	mg/kg	6010B	09/04/11	1
Chromium	28.	0.50	mg/kg	6010B	09/04/11	1
Copper	24.	1.0	mg/kg	6010B	09/04/11	1
Lead	20.	0.25	mg/kg	6010B	09/04/11	1
Nickel	17.	5.0	mg/kg	6010B	09/04/11	5
Selenium	BDL	10.	mg/kg	6010B	09/04/11	10
Silver	BDL	0.50	mg/kg	6010B	09/04/11	1
Zinc	50.	1.5	mg/kg	6010B	09/04/11	1
Benzene	BDL	0.0025	mg/kg	8021/8015	09/02/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	09/02/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	09/02/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	09/02/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	09/02/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.0		% Rec.	8021/8015	09/02/11	5
a,a,a-Trifluorotoluene(PID)	99.5		% Rec.	8021/8015	09/02/11	5
TPH (GC/FID) High Fraction	150	4.0	mg/kg	3546/DRO	09/03/11	1
Surrogate recovery(%)						
o-Terphenyl	92.1		% Rec.	3546/DRO	09/03/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L533838-06 (PH) - 7.71@20.4c



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

September 07, 2011

Date Received : September 01, 2011
 Description : L19-B26A-Spoils
 Sample ID : L19-B26A-SPOILSW-083011
 Collected By : Brennan Graff
 Collection Date : 08/30/11 12:40

ESC Sample # : L533838-06
 Site ID : L19
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Fluorene	0.014	0.0060	mg/kg	8270C-SIM	09/04/11	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Naphthalene	0.050	0.0060	mg/kg	8270C-SIM	09/04/11	1
Phenanthrene	0.017	0.0060	mg/kg	8270C-SIM	09/04/11	1
Pyrene	0.012	0.0060	mg/kg	8270C-SIM	09/04/11	1
1-Methylnaphthalene	0.034	0.0060	mg/kg	8270C-SIM	09/04/11	1
2-Methylnaphthalene	0.087	0.0060	mg/kg	8270C-SIM	09/04/11	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Surrogate Recovery						
Nitrobenzene-d5	106.		% Rec.	8270C-SIM	09/04/11	1
2-Fluorobiphenyl	99.8		% Rec.	8270C-SIM	09/04/11	1
p-Terphenyl-d14	166.		% Rec.	8270C-SIM	09/04/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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 L533838-06 (PH) - 7.71@20.4c



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REPORT OF ANALYSIS

September 07, 2011

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

ESC Sample # : L533838-07

Date Received : September 01, 2011
 Description : L19-B26A-Spoils

Site ID : L19

Sample ID : L19-B26A-SPOILS-083011

Project # :

Collected By : Brennan Graff
 Collection Date : 08/30/11 12:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	09/03/11	1
Chromium,Trivalent	27.	0.50	mg/kg	Calc.	09/04/11	1
ORP	50.		mV	2580	09/07/11	1
pH	7.9		su	9045D	09/02/11	1
Sodium Adsorption Ratio	3.8			Calc.	09/05/11	1
Specific Conductance	2100		umhos/cm	9050AMod	09/03/11	1
Mercury	0.025	0.020	mg/kg	7471	09/03/11	1
Arsenic	12.	1.0	mg/kg	6010B	09/04/11	1
Barium	4200	1.2	mg/kg	6010B	09/05/11	5
Cadmium	BDL	0.25	mg/kg	6010B	09/04/11	1
Chromium	27.	0.50	mg/kg	6010B	09/04/11	1
Copper	35.	1.0	mg/kg	6010B	09/04/11	1
Lead	28.	0.25	mg/kg	6010B	09/04/11	1
Nickel	22.	1.0	mg/kg	6010B	09/04/11	1
Selenium	BDL	5.0	mg/kg	6010B	09/05/11	5
Silver	BDL	0.50	mg/kg	6010B	09/04/11	1
Zinc	73.	1.5	mg/kg	6010B	09/04/11	1
Benzene	BDL	0.0025	mg/kg	8021/8015	09/02/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	09/02/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	09/02/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	09/02/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	09/02/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.1		% Rec.	8021/8015	09/02/11	5
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	09/02/11	5
TPH (GC/FID) High Fraction	170	4.0	mg/kg	3546/DRO	09/03/11	1
Surrogate recovery(%)						
o-Terphenyl	81.5		% Rec.	3546/DRO	09/03/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Acenaphthene	0.013	0.0060	mg/kg	8270C-SIM	09/04/11	1
Acenaphthylene	0.0089	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L533838-07 (PH) - 7.90@20.3c



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REPORT OF ANALYSIS

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

September 07, 2011

Date Received : September 01, 2011
 Description : L19-B26A-Spoils
 Sample ID : L19-B26A-SPOILS-083011
 Collected By : Brennan Graff
 Collection Date : 08/30/11 12:45

ESC Sample # : L533838-07
 Site ID : L19
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Fluorene	0.024	0.0060	mg/kg	8270C-SIM	09/04/11	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Naphthalene	0.12	0.0060	mg/kg	8270C-SIM	09/04/11	1
Phenanthrene	0.037	0.0060	mg/kg	8270C-SIM	09/04/11	1
Pyrene	0.023	0.0060	mg/kg	8270C-SIM	09/04/11	1
1-Methylnaphthalene	0.067	0.0060	mg/kg	8270C-SIM	09/04/11	1
2-Methylnaphthalene	0.19	0.0060	mg/kg	8270C-SIM	09/04/11	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	09/04/11	1
Surrogate Recovery						
Nitrobenzene-d5	114.		% Rec.	8270C-SIM	09/04/11	1
2-Fluorobiphenyl	89.0		% Rec.	8270C-SIM	09/04/11	1
p-Terphenyl-d14	155.		% Rec.	8270C-SIM	09/04/11	1

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 L533838-07 (PH) - 7.90@20.3c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L533838-01	WG553516	SAMP	Arsenic	R1843792	O
	WG553516	SAMP	Selenium	R1843792	O
	WG553321	SAMP	Benzo(a)pyrene	R1843412	O
	WG553321	SAMP	Benzo(b)fluoranthene	R1843412	O
	WG553321	SAMP	Benzo(g,h,i)perylene	R1843412	O
	WG553321	SAMP	Benzo(k)fluoranthene	R1843412	O
	WG553321	SAMP	Dibenz(a,h)anthracene	R1843412	O
	WG553321	SAMP	Indeno(1,2,3-cd)pyrene	R1843412	O
	WG553915	SAMP	ORP	R1847892	T8
	L533838-03	WG553321	SAMP	Benzo(g,h,i)perylene	R1843412
WG553321		SAMP	Dibenz(a,h)anthracene	R1843412	J3
WG553321		SAMP	Indeno(1,2,3-cd)pyrene	R1843412	J3
L533838-04	WG553321	SAMP	2-Methylnaphthalene	R1843412	E
L533838-05	WG553321	SAMP	2-Methylnaphthalene	R1843412	E
L533838-06	WG553516	SAMP	Selenium	R1843792	O
	WG553321	SAMP	p-Terphenyl-d14	R1843412	J1
L533838-07	WG553915	SAMP	ORP	R1847892	T8
	WG553517	SAMP	Selenium	R1845112	O
	WG553321	SAMP	p-Terphenyl-d14	R1843412	J1
	WG553915	SAMP	ORP	R1847892	T8
	WG553150	SAMP	Chromium, Hexavalent	R1843372	J6J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.
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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
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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Level II

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September 07, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG553273	09/01/11 21:49
Ethylbenzene	< .0005	mg/kg			WG553273	09/01/11 21:49
Toluene	< .005	mg/kg			WG553273	09/01/11 21:49
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG553273	09/01/11 21:49
Total Xylene	< .0015	mg/kg			WG553273	09/01/11 21:49
a,a,a-Trifluorotoluene(FID)		% Rec.	95.96	59-128	WG553273	09/01/11 21:49
a,a,a-Trifluorotoluene(PID)		% Rec.	100.8	54-144	WG553273	09/01/11 21:49
TPH (GC/FID) High Fraction	< 4	ppm			WG553314	09/02/11 10:08
o-Terphenyl		% Rec.	67.29	50-150	WG553314	09/02/11 10:08
pH	5.20	su			WG553152	09/02/11 11:10
Chromium, Hexavalent	< 2	mg/kg			WG553150	09/03/11 13:30
1-Methylnaphthalene	< .006	mg/kg			WG553321	09/03/11 08:39
2-Chloronaphthalene	< .006	mg/kg			WG553321	09/03/11 08:39
2-Methylnaphthalene	< .006	mg/kg			WG553321	09/03/11 08:39
Acenaphthene	< .006	mg/kg			WG553321	09/03/11 08:39
Acenaphthylene	< .006	mg/kg			WG553321	09/03/11 08:39
Anthracene	< .006	mg/kg			WG553321	09/03/11 08:39
Benzo(a)anthracene	< .006	mg/kg			WG553321	09/03/11 08:39
Benzo(a)pyrene	< .006	mg/kg			WG553321	09/03/11 08:39
Benzo(b)fluoranthene	< .006	mg/kg			WG553321	09/03/11 08:39
Benzo(g,h,i)perylene	< .006	mg/kg			WG553321	09/03/11 08:39
Benzo(k)fluoranthene	< .006	mg/kg			WG553321	09/03/11 08:39
Chrysene	< .006	mg/kg			WG553321	09/03/11 08:39
Dibenz(a,h)anthracene	< .006	mg/kg			WG553321	09/03/11 08:39
Fluoranthene	< .006	mg/kg			WG553321	09/03/11 08:39
Fluorene	< .006	mg/kg			WG553321	09/03/11 08:39
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG553321	09/03/11 08:39
Naphthalene	< .006	mg/kg			WG553321	09/03/11 08:39
Phenanthrene	< .006	mg/kg			WG553321	09/03/11 08:39
Pyrene	< .006	mg/kg			WG553321	09/03/11 08:39
2-Fluorobiphenyl		% Rec.	59.77	34-129	WG553321	09/03/11 08:39
Nitrobenzene-d5		% Rec.	59.61	14-141	WG553321	09/03/11 08:39
p-Terphenyl-d14		% Rec.	68.67	25-139	WG553321	09/03/11 08:39
Arsenic	< 1	mg/kg			WG553516	09/03/11 23:48
Barium	< .25	mg/kg			WG553516	09/03/11 23:48
Cadmium	< .25	mg/kg			WG553516	09/03/11 23:48
Chromium	< .5	mg/kg			WG553516	09/03/11 23:48
Copper	< 1	mg/kg			WG553516	09/03/11 23:48
Lead	< .25	mg/kg			WG553516	09/03/11 23:48
Nickel	< 1	mg/kg			WG553516	09/03/11 23:48
Selenium	< 1	mg/kg			WG553516	09/03/11 23:48
Silver	< .5	mg/kg			WG553516	09/03/11 23:48
Zinc	< 1.5	mg/kg			WG553516	09/03/11 23:48
Mercury	< .02	mg/kg			WG553406	09/03/11 11:03
TPH (GC/FID) High Fraction	< 4	ppm			WG553316	09/03/11 10:13

* 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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September 07, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
o-Terphenyl		% Rec.	68.65	50-150		09/03/11 10:13
Specific Conductance	2.10	umhos/cm			WG553490	09/03/11 14:19
Arsenic	< 1	mg/kg			WG553517	09/05/11 14:27
Barium	< .25	mg/kg			WG553517	09/05/11 14:27
Cadmium	< .25	mg/kg			WG553517	09/05/11 14:27
Chromium	< .5	mg/kg			WG553517	09/05/11 14:27
Copper	< 1	mg/kg			WG553517	09/05/11 14:27
Lead	< .25	mg/kg			WG553517	09/05/11 14:27
Nickel	< 1	mg/kg			WG553517	09/05/11 14:27
Selenium	< 1	mg/kg			WG553517	09/05/11 14:27
Silver	< .5	mg/kg			WG553517	09/05/11 14:27
Zinc	1.59	mg/kg			WG553517	09/05/11 14:27
TPH (GC/FID) High Fraction	< 4	ppm			WG553675	09/06/11 20:13
o-Terphenyl		% Rec.	74.98	50-150	WG553675	09/06/11 20:13

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate					
pH	su	6.90	6.90		0.145	1	L533650-01	WG553152
pH	su	7.90	7.90		0	1	L533838-07	WG553152
Chromium,Hexavalent	mg/kg	0	0		0	20	L533838-07	WG553150
Chromium,Hexavalent	mg/kg	0	0		0	20	L533650-01	WG553150
Arsenic	mg/kg	2.90	3.10		7.01	20	L534095-07	WG553516
Barium	mg/kg	110.	98.0		10.6	20	L534095-07	WG553516
Cadmium	mg/kg	0.400	0.340		15.2	20	L534095-07	WG553516
Chromium	mg/kg	7.20	6.70		7.19	20	L534095-07	WG553516
Copper	mg/kg	5.70	5.26		8.55	20	L534095-07	WG553516
Lead	mg/kg	5.40	5.00		8.25	20	L534095-07	WG553516
Nickel	mg/kg	6.30	5.82		8.40	20	L534095-07	WG553516
Selenium	mg/kg	0	0		0	20	L534095-07	WG553516
Silver	mg/kg	0	0		0	20	L534095-07	WG553516
Zinc	mg/kg	18.0	17.0		7.91	20	L534095-07	WG553516
Mercury	mg/kg	0.0240	0.0250		5.34	20	L533676-04	WG553406
Specific Conductance	umhos/cm	2200	1900		14.6	20	L533651-01	WG553490
Specific Conductance	umhos/cm	1100	1100		0	20	L534043-02	WG553490
Arsenic	mg/kg	2.90	2.80		4.20	20	L533676-01	WG553517
Barium	mg/kg	110.	110.		1.80	20	L533676-01	WG553517
Cadmium	mg/kg	0	0		0	20	L533676-01	WG553517
Chromium	mg/kg	13.0	13.0		2.28	20	L533676-01	WG553517
Copper	mg/kg	6.00	5.29		12.6	20	L533676-01	WG553517
Lead	mg/kg	9.90	10.0		1.31	20	L533676-01	WG553517
Nickel	mg/kg	7.40	7.47		1.48	20	L533676-01	WG553517
Selenium	mg/kg	0	0		0	20	L533676-01	WG553517
Silver	mg/kg	0	0		0	20	L533676-01	WG553517
Zinc	mg/kg	20.0	19.5		2.53	20	L533676-01	WG553517

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Parachute, CO 81635

Quality Assurance Report
Level II

L533838

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

September 07, 2011

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
ORP	mV	51.0	52.0	1.94	20	L533651-01	WG553915
ORP	mV	56.0	54.0	3.64	20	L534302-05	WG553915

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0509	102.	76-113	WG553273
Ethylbenzene	mg/kg	.05	0.0524	105.	78-115	WG553273
Toluene	mg/kg	.05	0.0549	110.	76-114	WG553273
Total Xylene	mg/kg	.15	0.155	103.	81-118	WG553273
a,a,a-Trifluorotoluene(PID)				99.24	54-144	WG553273
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.88	107.	67-135	WG553273
a,a,a-Trifluorotoluene(FID)				96.54	59-128	WG553273
TPH (GC/FID) High Fraction	ppm	60	44.4	74.0	50-150	WG553314
o-Terphenyl				70.07	50-150	WG553314
pH	su	9.04	9.00	99.6	98-101	WG553152
Chromium, Hexavalent	mg/kg	132	90.8	68.8	50-150	WG553150
1-Methylnaphthalene	mg/kg	.033	0.0182	55.0	48-113	WG553321
2-Chloronaphthalene	mg/kg	.033	0.0188	57.0	51-114	WG553321
2-Methylnaphthalene	mg/kg	.033	0.0187	56.8	44-109	WG553321
Acenaphthene	mg/kg	.033	0.0183	55.6	52-108	WG553321
Acenaphthylene	mg/kg	.033	0.0184	55.9	51-110	WG553321
Anthracene	mg/kg	.033	0.0210	63.8	58-120	WG553321
Benzo(a)anthracene	mg/kg	.033	0.0208	63.1	54-110	WG553321
Benzo(a)pyrene	mg/kg	.033	0.0208	63.0	56-118	WG553321
Benzo(b)fluoranthene	mg/kg	.033	0.0208	63.1	55-114	WG553321
Benzo(g,h,i)perylene	mg/kg	.033	0.0248	75.1	48-130	WG553321
Benzo(k)fluoranthene	mg/kg	.033	0.0208	63.0	55-122	WG553321
Chrysene	mg/kg	.033	0.0212	64.2	57-118	WG553321
Dibenz(a,h)anthracene	mg/kg	.033	0.0231	70.1	53-122	WG553321
Fluoranthene	mg/kg	.033	0.0214	64.7	58-118	WG553321
Fluorene	mg/kg	.033	0.0198	60.0	54-109	WG553321
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0229	69.5	51-125	WG553321
Naphthalene	mg/kg	.033	0.0167	50.6	45-105	WG553321
Phenanthrene	mg/kg	.033	0.0199	60.3	53-114	WG553321
Pyrene	mg/kg	.033	0.0232	70.4	53-121	WG553321
2-Fluorobiphenyl				56.04	34-129	WG553321
Nitrobenzene-d5				52.21	14-141	WG553321
p-Terphenyl-d14				67.84	25-139	WG553321
Arsenic	mg/kg	92.6	92.4	99.8	82.9-117	WG553516
Barium	mg/kg	169	174.	103.	82.8-117	WG553516
Cadmium	mg/kg	61.8	60.6	98.1	83.3-117	WG553516
Chromium	mg/kg	71.3	72.2	101.	81.8-118	WG553516
Copper	mg/kg	81.2	86.3	106.	83.9-116	WG553516
Lead	mg/kg	92.4	94.1	102.	83.3-117	WG553516
Nickel	mg/kg	59.1	58.9	99.7	83.8-116	WG553516
Selenium	mg/kg	89.5	87.5	97.8	79-121	WG553516
Silver	mg/kg	34.4	33.8	98.3	66.3-134	WG553516
Zinc	mg/kg	141	137.	97.2	80.9-119	WG553516

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Mercury	mg/kg	3.77	4.54	120.	71.6-128	WG553406
TPH (GC/FID) High Fraction o-Terphenyl	ppm	60	53.1	88.4 82.42	50-150 50-150	WG553316 WG553316
Specific Conductance	umhos/cm	427	430.	101.	85-115	WG553490
Arsenic	mg/kg	92.6	86.2	93.1	82.9-117	WG553517
Barium	mg/kg	169	165.	97.6	82.8-117	WG553517
Cadmium	mg/kg	61.8	57.8	93.5	83.3-117	WG553517
Chromium	mg/kg	71.3	67.5	94.7	81.8-118	WG553517
Copper	mg/kg	81.2	86.5	107.	83.9-116	WG553517
Lead	mg/kg	92.4	88.9	96.2	83.3-117	WG553517
Nickel	mg/kg	59.1	58.4	98.8	83.8-116	WG553517
Selenium	mg/kg	89.5	81.6	91.2	79-121	WG553517
Silver	mg/kg	34.4	34.5	100.	66.3-134	WG553517
Zinc	mg/kg	141	139.	98.6	80.9-119	WG553517
TPH (GC/FID) High Fraction o-Terphenyl	ppm	60	52.5	87.5 88.86	50-150 50-150	WG553675 WG553675
ORP	mV	229	220.	96.1	95.6-104.37	WG553915

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0521	0.0509	104.	76-113	2.25	20	WG553273
Ethylbenzene	mg/kg	0.0523	0.0524	105.	78-115	0.200	20	WG553273
Toluene	mg/kg	0.0546	0.0549	109.	76-114	0.370	20	WG553273
Total Xylene	mg/kg	0.154	0.155	103.	81-118	0.490	20	WG553273
a,a,a-Trifluorotoluene(PID)				99.04	54-144			WG553273
TPH (GC/FID) Low Fraction	mg/kg	6.00	5.88	109.	67-135	2.14	20	WG553273
a,a,a-Trifluorotoluene(FID)				96.05	59-128			WG553273
TPH (GC/FID) High Fraction o-Terphenyl	ppm	43.2	44.4	72.0 66.12	50-150 50-150	2.62	25	WG553314 WG553314
pH	su	9.00	9.00	100.	98-101	0	20	WG553152
Chromium,Hexavalent	mg/kg	89.6	90.8	68.0	50-150	1.33	20	WG553150
1-Methylnaphthalene	mg/kg	0.0211	0.0182	64.0	48-113	14.9	24	WG553321
2-Chloronaphthalene	mg/kg	0.0209	0.0188	63.0	51-114	10.6	24	WG553321
2-Methylnaphthalene	mg/kg	0.0214	0.0187	65.0	44-109	13.2	24	WG553321
Acenaphthene	mg/kg	0.0212	0.0183	64.0	52-108	14.4	22	WG553321
Acenaphthylene	mg/kg	0.0217	0.0184	66.0	51-110	16.4	21	WG553321
Anthracene	mg/kg	0.0247	0.0210	75.0	58-120	16.0	20	WG553321
Benzo(a)anthracene	mg/kg	0.0230	0.0208	70.0	54-110	10.0	22	WG553321
Benzo(a)pyrene	mg/kg	0.0229	0.0208	69.0	56-118	9.67	21	WG553321
Benzo(b)fluoranthene	mg/kg	0.0220	0.0208	67.0	55-114	5.43	20	WG553321

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Analyte	Units	Laboratory Control		Sample Duplicate	Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzo(g,h,i)perylene	mg/kg	0.0271	0.0248	82.0	48-130	8.97	20	WG553321
Benzo(k)fluoranthene	mg/kg	0.0237	0.0208	72.0	55-122	13.0	25	WG553321
Chrysene	mg/kg	0.0231	0.0212	70.0	57-118	8.91	20	WG553321
Dibenz(a,h)anthracene	mg/kg	0.0252	0.0231	76.0	53-122	8.46	20	WG553321
Fluoranthene	mg/kg	0.0236	0.0214	72.0	58-118	10.1	20	WG553321
Fluorene	mg/kg	0.0230	0.0198	70.0	54-109	14.7	20	WG553321
Indeno(1,2,3-cd)pyrene	mg/kg	0.0253	0.0229	77.0	51-125	9.94	21	WG553321
Naphthalene	mg/kg	0.0200	0.0167	60.0	45-105	17.9	24	WG553321
Phenanthrene	mg/kg	0.0234	0.0199	71.0	53-114	16.2	20	WG553321
Pyrene	mg/kg	0.0254	0.0232	77.0	53-121	8.86	20	WG553321
2-Fluorobiphenyl				65.16	34-129			WG553321
Nitrobenzene-d5				60.71	14-141			WG553321
p-Terphenyl-d14				74.55	25-139			WG553321
TPH (GC/FID) High Fraction	ppm	52.7	53.1	88.0	50-150	0.756	20	WG553316
o-Terphenyl				81.33	50-150			WG553316
Specific Conductance	umhos/	430.	430.	101.	85-115	0	20	WG553490
TPH (GC/FID) High Fraction	ppm	51.5	52.5	86.0	50-150	1.96	20	WG553675
o-Terphenyl				86.00	50-150			WG553675
ORP	mV	220.	220.	96.0	95.6-104.37	0	20	WG553915

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Benzene	mg/kg	0.200	0	.05	79.9	32-137	L533818-01	WG553273
Ethylbenzene	mg/kg	0.166	0	.05	66.6	10-150	L533818-01	WG553273
Toluene	mg/kg	0.198	0	.05	79.0	20-142	L533818-01	WG553273
Total Xylene	mg/kg	0.502	0	.15	66.9	16-141	L533818-01	WG553273
a,a,a-Trifluorotoluene(PID)					98.87	54-144		WG553273
TPH (GC/FID) Low Fraction	mg/kg	18.0	0	5.5	65.6	55-109	L533818-01	WG553273
a,a,a-Trifluorotoluene(FID)					98.44	59-128		WG553273
TPH (GC/FID) High Fraction	ppm	341.	210.	60	219.*	50-150	L532893-01	WG553314
o-Terphenyl					48.55*	50-150		WG553314
Chromium,Hexavalent	mg/kg	1.80	0	20	9.00*	50-150	L533838-07	WG553150
Arsenic	mg/kg	50.6	3.10	50	95.0	75-125	L534095-07	WG553516
Barium	mg/kg	155.	98.0	50	114.	75-125	L534095-07	WG553516
Cadmium	mg/kg	47.5	0.340	50	94.3	75-125	L534095-07	WG553516
Chromium	mg/kg	56.2	6.70	50	99.0	75-125	L534095-07	WG553516
Copper	mg/kg	55.7	5.26	50	101.	75-125	L534095-07	WG553516
Lead	mg/kg	54.8	5.00	50	99.6	75-125	L534095-07	WG553516
Nickel	mg/kg	53.6	5.82	50	95.6	75-125	L534095-07	WG553516
Selenium	mg/kg	44.9	0	50	89.8	75-125	L534095-07	WG553516
Silver	mg/kg	47.6	0	50	95.2	75-125	L534095-07	WG553516
Zinc	mg/kg	63.1	17.0	50	92.2	75-125	L534095-07	WG553516

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Mercury	mg/kg	0.294	0.0250	.25	108.	70-130	L533676-04	WG553406
Arsenic	mg/kg	44.9	2.80	50	84.2	75-125	L533676-01	WG553517
Barium	mg/kg	162.	110.	50	104.	75-125	L533676-01	WG553517
Cadmium	mg/kg	42.5	0	50	85.0	75-125	L533676-01	WG553517
Chromium	mg/kg	55.8	13.0	50	85.6	75-125	L533676-01	WG553517
Copper	mg/kg	55.8	5.29	50	101.	75-125	L533676-01	WG553517
Lead	mg/kg	53.6	10.0	50	87.2	75-125	L533676-01	WG553517
Nickel	mg/kg	51.4	7.47	50	87.9	75-125	L533676-01	WG553517
Selenium	mg/kg	39.0	0	50	78.0	75-125	L533676-01	WG553517
Silver	mg/kg	45.4	0	50	90.8	75-125	L533676-01	WG553517
Zinc	mg/kg	67.9	19.5	50	96.8	75-125	L533676-01	WG553517
1-Methylnaphthalene	mg/kg	0.0499	0.0280	.033	66.4	25-155	L533838-03	WG553321
2-Chloronaphthalene	mg/kg	0.0310	0	.033	93.9	31-153	L533838-03	WG553321
2-Methylnaphthalene	mg/kg	0.0907	0.0810	.033	29.3	22-172	L533838-03	WG553321
Acenaphthene	mg/kg	0.0346	0	.033	105.	43-133	L533838-03	WG553321
Acenaphthylene	mg/kg	0.0327	0	.033	99.1	42-146	L533838-03	WG553321
Anthracene	mg/kg	0.0375	0	.033	114.	38-153	L533838-03	WG553321
Benzo(a)anthracene	mg/kg	0.0357	0	.033	108.	31-142	L533838-03	WG553321
Benzo(a)pyrene	mg/kg	0.0353	0	.033	107.	26-152	L533838-03	WG553321
Benzo(b)fluoranthene	mg/kg	0.0399	0	.033	121.	10-188	L533838-03	WG553321
Benzo(g,h,i)perylene	mg/kg	0.0244	0	.033	73.8	10-176	L533838-03	WG553321
Benzo(k)fluoranthene	mg/kg	0.0372	0	.033	112.	22-163	L533838-03	WG553321
Chrysene	mg/kg	0.0365	0	.033	110.	26-146	L533838-03	WG553321
Dibenz(a,h)anthracene	mg/kg	0.0270	0	.033	81.9	10-160	L533838-03	WG553321
Fluoranthene	mg/kg	0.0367	0	.033	111.	23-160	L533838-03	WG553321
Fluorene	mg/kg	0.0391	0.00680	.033	98.0	44-143	L533838-03	WG553321
Indeno(1,2,3-cd)pyrene	mg/kg	0.0263	0	.033	79.6	10-157	L533838-03	WG553321
Naphthalene	mg/kg	0.0599	0.0400	.033	60.3	22-156	L533838-03	WG553321
Phenanthrene	mg/kg	0.0455	0.0230	.033	68.1	23-164	L533838-03	WG553321
Pyrene	mg/kg	0.0390	0	.033	118.	12-170	L533838-03	WG553321
2-Fluorobiphenyl					89.79	34-129		WG553321
Nitrobenzene-d5					90.35	14-141		WG553321
p-Terphenyl-d14					107.4	25-139		WG553321

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.215	0.200	86.2	32-137	7.56	39	L533818-01	WG553273
Ethylbenzene	mg/kg	0.179	0.166	71.8	10-150	7.54	44	L533818-01	WG553273
Toluene	mg/kg	0.206	0.198	82.5	20-142	4.34	42	L533818-01	WG553273
Total Xylene	mg/kg	0.529	0.502	70.5	16-141	5.29	46	L533818-01	WG553273
a,a,a-Trifluorotoluene(PID)				98.76	54-144				WG553273
TPH (GC/FID) Low Fraction	mg/kg	17.9	18.0	65.1	55-109	0.710	20	L533818-01	WG553273
a,a,a-Trifluorotoluene(FID)				98.68	59-128				WG553273
TPH (GC/FID) High Fraction	ppm	405.	341.	325.*	50-150	17.1	25	L532893-01	WG553314
o-Terphenyl				48.73*	50-150				WG553314
Chromium,Hexavalent	mg/kg	6.56	1.80	32.8*	50-150	114.*	20	L533838-07	WG553150
Arsenic	mg/kg	50.8	50.6	95.4	75-125	0.394	20	L534095-07	WG553516
Barium	mg/kg	147.	155.	98.0	75-125	5.30	20	L534095-07	WG553516

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Cadmium	mg/kg	48.0	47.5	95.3	75-125	1.05	20	L534095-07	WG553516
Chromium	mg/kg	56.3	56.2	99.2	75-125	0.178	20	L534095-07	WG553516
Copper	mg/kg	57.0	55.7	103.	75-125	2.31	20	L534095-07	WG553516
Lead	mg/kg	54.4	54.8	98.8	75-125	0.733	20	L534095-07	WG553516
Nickel	mg/kg	53.7	53.6	95.8	75-125	0.186	20	L534095-07	WG553516
Selenium	mg/kg	44.7	44.9	89.4	75-125	0.446	20	L534095-07	WG553516
Silver	mg/kg	48.9	47.6	97.8	75-125	2.69	20	L534095-07	WG553516
Zinc	mg/kg	63.8	63.1	93.6	75-125	1.10	20	L534095-07	WG553516
Mercury	mg/kg	0.263	0.294	95.2	70-130	11.1	20	L533676-04	WG553406
Arsenic	mg/kg	44.6	44.9	83.6	75-125	0.670	20	L533676-01	WG553517
Barium	mg/kg	154.	162.	88.0	75-125	5.06	20	L533676-01	WG553517
Cadmium	mg/kg	43.0	42.5	86.0	75-125	1.17	20	L533676-01	WG553517
Chromium	mg/kg	58.9	55.8	91.8	75-125	5.41	20	L533676-01	WG553517
Copper	mg/kg	55.3	55.8	100.	75-125	0.900	20	L533676-01	WG553517
Lead	mg/kg	52.6	53.6	85.2	75-125	1.88	20	L533676-01	WG553517
Nickel	mg/kg	52.9	51.4	90.9	75-125	2.88	20	L533676-01	WG553517
Selenium	mg/kg	38.6	39.0	77.2	75-125	1.03	20	L533676-01	WG553517
Silver	mg/kg	45.9	45.4	91.8	75-125	1.10	20	L533676-01	WG553517
Zinc	mg/kg	67.9	67.9	96.8	75-125	0	20	L533676-01	WG553517
1-Methylnaphthalene	mg/kg	0.0552	0.0499	82.3	25-155	9.98	27	L533838-03	WG553321
2-Chloronaphthalene	mg/kg	0.0313	0.0310	94.9	31-153	1.09	22	L533838-03	WG553321
2-Methylnaphthalene	mg/kg	0.0997	0.0907	56.7	22-172	9.50	29	L533838-03	WG553321
Acenaphthene	mg/kg	0.0343	0.0346	104.	43-133	0.679	26	L533838-03	WG553321
Acenaphthylene	mg/kg	0.0313	0.0327	95.0	42-146	4.26	22	L533838-03	WG553321
Anthracene	mg/kg	0.0358	0.0375	108.	38-153	4.63	27	L533838-03	WG553321
Benzo(a)anthracene	mg/kg	0.0332	0.0357	100.	31-142	7.35	31	L533838-03	WG553321
Benzo(a)pyrene	mg/kg	0.0345	0.0353	104.	26-152	2.34	32	L533838-03	WG553321
Benzo(b)fluoranthene	mg/kg	0.0452	0.0399	137.	10-188	12.5	33	L533838-03	WG553321
Benzo(g,h,i)perylene	mg/kg	0.0124	0.0244	37.6	10-176	64.9*	30	L533838-03	WG553321
Benzo(k)fluoranthene	mg/kg	0.0460	0.0372	139.	22-163	21.3	29	L533838-03	WG553321
Chrysene	mg/kg	0.0338	0.0365	102.	26-146	7.50	30	L533838-03	WG553321
Dibenz(a,h)anthracene	mg/kg	0.0150	0.0270	45.4	10-160	57.3*	39	L533838-03	WG553321
Fluoranthene	mg/kg	0.0363	0.0367	110.	23-160	1.08	22	L533838-03	WG553321
Fluorene	mg/kg	0.0401	0.0391	101.	44-143	2.31	23	L533838-03	WG553321
Indeno(1,2,3-cd)pyrene	mg/kg	0.0145	0.0263	44.0	10-157	57.5*	40	L533838-03	WG553321
Naphthalene	mg/kg	0.0625	0.0599	68.2	22-156	4.27	27	L533838-03	WG553321
Phenanthrene	mg/kg	0.0461	0.0455	69.8	23-164	1.27	25	L533838-03	WG553321
Pyrene	mg/kg	0.0406	0.0390	123.	12-170	4.02	24	L533838-03	WG553321
2-Fluorobiphenyl				83.87	34-129				WG553321
Nitrobenzene-d5				83.41	14-141				WG553321
p-Terphenyl-d14				110.4	25-139				WG553321

Batch number /Run number / Sample number cross reference

WG553273: R1841132: L533838-01 02 03 04 05 06 07
 WG553314: R1842212: L533838-03 04
 WG553152: R1842252: L533838-01 06 07
 WG553150: R1843372: L533838-01 06 07
 WG553321: R1843412: L533838-01 02 03 04 05 06 07
 WG553516: R1843792: L533838-01 06
 WG553406: R1843893: L533838-01 06 07
 WG553316: R1843972: L533838-06 07

* 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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2717 County Road 215, Suite 100

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Quality Assurance Report
Level II

L533838

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September 07, 2011

WG553355: R1844533: L533838-01 06 07
WG553490: R1844692: L533838-01 06 07
WG553517: R1845112: L533838-07
WG553675: R1846612: L533838-01 02 05
WG553915: R1847892: L533838-01 06 07

* * 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.



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

Report Summary

Thursday February 02, 2012

Report Number: L557753

Samples Received: 01/27/12

Client Project:

Description: L19-Spoil 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-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979

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

February 02, 2012

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

Date Received : January 27, 2012
Description : L19-Spoil Sampling
Sample ID : L19-SPOILWN-012512 10-12IN
Collected By : Brennen Graff
Collection Date : 01/25/12 10:28

ESC Sample # : L557753-01
Site ID : L19
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	01/29/12	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.3		% Rec.	602/8015	01/29/12	5
TPH (GC/FID) High Fraction	300	4.0	mg/kg	3546/DRO	01/30/12	1
Surrogate recovery(%) o-Terphenyl	64.5		% Rec.	3546/DRO	01/30/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Parachute, CO 81635

ESC Sample # : L557753-02

Date Received : January 27, 2012
Description : L19-Spoil Sampling

Site ID : L19

Sample ID : L19-SPOILWNW-012512

Project # :

Collected By : Brennen Graff
Collection Date : 01/25/12 10:34

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	01/29/12	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	102.		% Rec.	602/8015	01/29/12	5
TPH (GC/FID) High Fraction	13.	4.0	mg/kg	3546/DRO	01/30/12	1
Surrogate recovery(%) o-Terphenyl	70.6		% Rec.	3546/DRO	01/30/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Date Received : January 27, 2012
Description : L19-Spoil Sampling
Sample ID : L19-SPOILWW-012512 10-12IN
Collected By : Brennen Graff
Collection Date : 01/25/12 10:39

ESC Sample # : L557753-03
Site ID : L19
Project # :

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

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Parachute, CO 81635

ESC Sample # : L557753-04

Date Received : January 27, 2012
Description : L19-Spoil Sampling
Sample ID : L19-SPOILWSW-012512 10-12IN
Collected By : Brennen Graff
Collection Date : 01/25/12 10:45

Site ID : L19

Project # :

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

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Date Received : January 27, 2012
Description : L19-Spoil Sampling
Sample ID : L19-SPOILWS-012512
Collected By : Brennen Graff
Collection Date : 01/25/12 10:49

ESC Sample # : L557753-05
Site ID : L19
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	01/29/12	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	99.1		% Rec.	602/8015	01/29/12	5
TPH (GC/FID) High Fraction	210	4.0	mg/kg	3546/DRO	01/30/12	1
Surrogate recovery(%) o-Terphenyl	62.4		% Rec.	3546/DRO	01/30/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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ESC Sample # : L557753-06

Date Received : January 27, 2012
Description : L19-Spoil Sampling
Sample ID : L19-SPOILWSE-012512
Collected By : Brennen Graff
Collection Date : 01/25/12 10:54

Site ID : L19

Project # :

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

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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ESC Sample # : L557753-07

Date Received : January 27, 2012
Description : L19-Spoil Sampling

Site ID : L19

Sample ID : L19-SPOILSW-012512

Project # :

Collected By : Brennen Graff
Collection Date : 01/25/12 11:01

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

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Date Received : January 27, 2012
 Description : L19-Spoil Sampling
 Sample ID : L19-SPOILS-012512 10-12IN
 Collected By : Brennen Graff
 Collection Date : 01/25/12 11:07

ESC Sample # : L557753-08
 Site ID : L19
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	01/29/12	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	98.8		% Rec.	602/8015	01/29/12	5
TPH (GC/FID) High Fraction	73.	4.0	mg/kg	3546/DRO	01/30/12	1
Surrogate recovery(%) o-Terphenyl	61.2		% Rec.	3546/DRO	01/30/12	1

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
L557753-01	WG576061	SAMP	TPH (GC/FID) Low Fraction	R2017872	J3
L557753-02	WG576061	SAMP	TPH (GC/FID) Low Fraction	R2017872	J3
L557753-03	WG576061	SAMP	TPH (GC/FID) Low Fraction	R2017872	J3
L557753-04	WG576061	SAMP	TPH (GC/FID) Low Fraction	R2017872	J3
L557753-05	WG576061	SAMP	TPH (GC/FID) Low Fraction	R2017872	J3
L557753-06	WG576061	SAMP	TPH (GC/FID) Low Fraction	R2017872	J3
	WG576458	SAMP	o-Terphenyl	R2020833	J7
L557753-07	WG576061	SAMP	TPH (GC/FID) Low Fraction	R2017872	J3
L557753-08	WG576061	SAMP	TPH (GC/FID) Low Fraction	R2017872	J3

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.



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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
TPH (GC/FID) High Fraction o-Terphenyl	< 4	ppm	67.86	50-150	WG576085	01/30/12 09:33
		% Rec.			WG576085	01/30/12 09:33
TPH (GC/FID) High Fraction o-Terphenyl	< 4	ppm	73.68	50-150	WG576092	01/30/12 10:58
		% Rec.			WG576092	01/30/12 10:58
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	< .1	mg/kg	102.5	59-128	WG576061	01/28/12 22:43
		% Rec.			WG576061	01/28/12 22:43
TPH (GC/FID) High Fraction o-Terphenyl	< 4	ppm	72.08	50-150	WG576458	02/01/12 10:20
		% Rec.			WG576458	02/01/12 10:20

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
TPH (GC/FID) High Fraction o-Terphenyl	ppm	60	42.7	71.2	50-150	WG576085
				75.05	50-150	WG576085
TPH (GC/FID) High Fraction o-Terphenyl	ppm	60	48.8	81.4	50-150	WG576092
				77.60	50-150	WG576092
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	5.5	5.18	94.2	67-135	WG576061
				108.4	59-128	WG576061
TPH (GC/FID) High Fraction o-Terphenyl	ppm	60	48.0	80.0	50-150	WG576458
				82.15	50-150	WG576458

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
TPH (GC/FID) High Fraction o-Terphenyl	ppm	40.9	42.7	68.0	50-150	4.48	25	WG576085
				72.03	50-150			WG576085
TPH (GC/FID) High Fraction o-Terphenyl	ppm	50.8	48.8	85.0	50-150	4.05	20	WG576092
				81.44	50-150			WG576092
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	6.35	5.18	115.	67-135	20.2*	20	WG576061
				110.5	59-128			WG576061
TPH (GC/FID) High Fraction o-Terphenyl	ppm	45.5	48.0	76.0	50-150	5.41	25	WG576458
				77.07	50-150			WG576458

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
TPH (GC/FID) High Fraction o-Terphenyl	ppm	52.1	32.0	60	33.5*	50-150	L557861-02	WG576085
					65.61	50-150		WG576085
TPH (GC/FID) Low Fraction	mg/kg	11.0	0	5.5	40.0*	55-109	L557750-01	WG576061

* 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 / Matt Kasten
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L557753

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

February 02, 2012

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
a,a,a-Trifluorotoluene(FID)					97.64	59-128		
TPH (GC/FID) High Fraction	ppm	48.6	13.0	60	59.3	50-150	L557753-02	WG576092
o-Terphenyl					68.60	50-150		WG576092

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
TPH (GC/FID) High Fraction	ppm	48.2	52.1	27.0*	50-150	7.75	25	L557861-02	WG576085
o-Terphenyl				60.69	50-150				WG576085
TPH (GC/FID) Low Fraction	mg/kg	14.5	11.0	52.8*	55-109	27.7*	20	L557750-01	WG576061
a,a,a-Trifluorotoluene(FID)				100.5	59-128				WG576061
TPH (GC/FID) High Fraction	ppm	55.7	48.6	71.1	50-150	13.6	20	L557753-02	WG576092
o-Terphenyl				70.01	50-150				WG576092

Batch number /Run number / Sample number cross reference

WG576085: R2017614: L557753-01
 WG576092: R2017615: L557753-02 03 04 05 07 08
 WG576061: R2017872: L557753-01 02 03 04 05 06 07 08
 WG576458: R2020833: L557753-06

* * 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.



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

Report Summary

Wednesday March 14, 2012

Report Number: L564612


Samples Received: 03/13/12

Client Project: L19 PIT SPOIL

Description: L19 Pit Spoil From the B26

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-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979

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

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

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REPORT OF ANALYSIS

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

March 14, 2012

Date Received : March 13, 2012
Description : L19 Pit Spoil From the B26
Sample ID : L19-B26-PS-N1-031212
Collected By : SRM
Collection Date : 03/12/12 10:45

ESC Sample # : L564612-01
Site ID : L19
Project # : L19 PIT SPOIL

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

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

March 14, 2012

Date Received : March 13, 2012
 Description : L19 Pit Spoil From the B26
 Sample ID : L19-B26-PS-N2-031212
 Collected By : SRM
 Collection Date : 03/12/12 10:55

ESC Sample # : L564612-02
 Site ID : L19
 Project # : L19 PIT SPOIL

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	03/13/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	03/13/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	03/13/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8021/8015	03/13/12	5
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	03/13/12	5
TPH (GC/FID) High Fraction	32.	4.0	mg/kg	3546/DRO	03/14/12	1
Surrogate recovery(%)						
o-Terphenyl	61.9		% Rec.	3546/DRO	03/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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 2717 County Road 215, Suite 100
 Parachute, CO 81635

March 14, 2012

Date Received : March 13, 2012
 Description : L19 Pit Spoil From the B26
 Sample ID : L19-B26-PS-N3-031212
 Collected By : SRM
 Collection Date : 03/12/12 11:05

ESC Sample # : L564612-03
 Site ID : L19
 Project # : L19 PIT SPOIL

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	03/13/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	03/13/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	03/13/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8021/8015	03/13/12	5
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	03/13/12	5
TPH (GC/FID) High Fraction	18.	4.0	mg/kg	3546/DRO	03/14/12	1
Surrogate recovery(%)						
o-Terphenyl	58.0		% Rec.	3546/DRO	03/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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March 14, 2012

Date Received : March 13, 2012
 Description : L19 Pit Spoil From the B26
 Sample ID : L19-B26-PS-N4-031212
 Collected By : SRM
 Collection Date : 03/12/12 11:15

ESC Sample # : L564612-04
 Site ID : L19
 Project # : L19 PIT SPOIL

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	03/13/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	03/13/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	03/13/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8021/8015	03/13/12	5
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	03/13/12	5
TPH (GC/FID) High Fraction	130	4.0	mg/kg	3546/DRO	03/14/12	1
Surrogate recovery(%)						
o-Terphenyl	66.8		% Rec.	3546/DRO	03/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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March 14, 2012

Date Received : March 13, 2012
 Description : L19 Pit Spoil From the B26
 Sample ID : L19-B26-PS-N5-031212
 Collected By : SRM
 Collection Date : 03/12/12 11:25

ESC Sample # : L564612-05
 Site ID : L19
 Project # : L19 PIT SPOIL

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	03/13/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	03/13/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	03/13/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8021/8015	03/13/12	5
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021/8015	03/13/12	5
TPH (GC/FID) High Fraction	280	4.0	mg/kg	3546/DRO	03/14/12	1
Surrogate recovery(%)						
o-Terphenyl	89.3		% Rec.	3546/DRO	03/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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March 14, 2012

Date Received : March 13, 2012
 Description : L19 Pit Spoil From the B26
 Sample ID : L19-B26-PS-N6-031212
 Collected By : SRM
 Collection Date : 03/12/12 11:35

ESC Sample # : L564612-06
 Site ID : L19
 Project # : L19 PIT SPOIL

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	03/13/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	03/13/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	03/13/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8021/8015	03/13/12	5
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	03/13/12	5
TPH (GC/FID) High Fraction	200	4.0	mg/kg	3546/DRO	03/14/12	1
Surrogate recovery(%)						
o-Terphenyl	84.0		% Rec.	3546/DRO	03/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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March 14, 2012

Date Received : March 13, 2012
 Description : L19 Pit Spoil From the B26
 Sample ID : L19-B26-PS-N7-031212
 Collected By : SRM
 Collection Date : 03/12/12 11:45

ESC Sample # : L564612-07
 Site ID : L19
 Project # : L19 PIT SPOIL

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	03/13/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	03/13/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	03/13/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8021/8015	03/13/12	5
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021/8015	03/13/12	5
TPH (GC/FID) High Fraction	220	4.0	mg/kg	3546/DRO	03/14/12	1
Surrogate recovery(%)						
o-Terphenyl	67.6		% Rec.	3546/DRO	03/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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

March 14, 2012

Date Received : March 13, 2012
Description : L19 Pit Spoil From the B26
Sample ID : L19-B26-PS-N8-031212
Collected By : SRM
Collection Date : 03/12/12 11:55

ESC Sample # : L564612-08
Site ID : L19
Project # : L19 PIT SPOIL

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

March 14, 2012

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

ESC Sample # : L564612-09

Date Received : March 13, 2012
Description : L19 Pit Spoil From the B26

Site ID : L19

Sample ID : L19-B26-PS-N9-031212

Project # : L19 PIT SPOIL

Collected By : SRM
Collection Date : 03/12/12 12:05

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)

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 2717 County Road 215, Suite 100
 Parachute, CO 81635

March 14, 2012

Date Received : March 13, 2012
 Description : L19 Pit Spoil From the B26
 Sample ID : L19-B26-PS-N10-031212
 Collected By : SRM
 Collection Date : 03/12/12 12:15

ESC Sample # : L564612-10
 Site ID : L19
 Project # : L19 PIT SPOIL

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	03/13/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	03/13/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	03/13/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8021/8015	03/13/12	5
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	03/13/12	5
TPH (GC/FID) High Fraction	21.	4.0	mg/kg	3546/DRO	03/14/12	1
Surrogate recovery(%)						
o-Terphenyl	50.7		% Rec.	3546/DRO	03/14/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

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 2717 County Road 215, Suite 100
 Parachute, CO 81635

March 14, 2012

Date Received : March 13, 2012
 Description : L19 Pit Spoil From the B26
 Sample ID : L19-B26-PS-N11-031212
 Collected By : SRM
 Collection Date : 03/12/12 12:25

ESC Sample # : L564612-11
 Site ID : L19
 Project # : L19 PIT SPOIL

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	03/13/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	03/13/12	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	03/13/12	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	03/13/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8021/8015	03/13/12	5
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021/8015	03/13/12	5
TPH (GC/FID) High Fraction	310	4.0	mg/kg	3546/DRO	03/14/12	1
Surrogate recovery(%)						
o-Terphenyl	78.7		% Rec.	3546/DRO	03/14/12	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: 03/14/12 14:21 Printed: 03/14/12 14:21

Summary of Remarks For Samples Printed
03/14/12 at 14:21:39

TSR Signing Reports: 358
R3 - Rush: Two Day

Try not to report benzene as BDL above a 250x dilution. ONLY log soil samples under this account. Waters get logged under ENCRCO.

Sample: L564612-01 Account: ENCANACO Received: 03/13/12 09:00 Due Date: 03/15/12 00:00 RPT Date: 03/14/12 14:21
Sample: L564612-02 Account: ENCANACO Received: 03/13/12 09:00 Due Date: 03/15/12 00:00 RPT Date: 03/14/12 14:21
Sample: L564612-03 Account: ENCANACO Received: 03/13/12 09:00 Due Date: 03/15/12 00:00 RPT Date: 03/14/12 14:21
Sample: L564612-04 Account: ENCANACO Received: 03/13/12 09:00 Due Date: 03/15/12 00:00 RPT Date: 03/14/12 14:21
Sample: L564612-05 Account: ENCANACO Received: 03/13/12 09:00 Due Date: 03/15/12 00:00 RPT Date: 03/14/12 14:21
Sample: L564612-06 Account: ENCANACO Received: 03/13/12 09:00 Due Date: 03/15/12 00:00 RPT Date: 03/14/12 14:21
Sample: L564612-07 Account: ENCANACO Received: 03/13/12 09:00 Due Date: 03/15/12 00:00 RPT Date: 03/14/12 14:21
Sample: L564612-08 Account: ENCANACO Received: 03/13/12 09:00 Due Date: 03/15/12 00:00 RPT Date: 03/14/12 14:21
Sample: L564612-09 Account: ENCANACO Received: 03/13/12 09:00 Due Date: 03/15/12 00:00 RPT Date: 03/14/12 14:21
Sample: L564612-10 Account: ENCANACO Received: 03/13/12 09:00 Due Date: 03/15/12 00:00 RPT Date: 03/14/12 14:21
Sample: L564612-11 Account: ENCANACO Received: 03/13/12 09:00 Due Date: 03/15/12 00:00 RPT Date: 03/14/12 14:21



YOUR LAB OF CHOICE

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Quality Assurance Report
Level II

L564612

12065 Lebanon Rd.
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(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

March 14, 2012

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG582545	03/13/12 15:52
Ethylbenzene	< .0005	mg/kg			WG582545	03/13/12 15:52
Toluene	< .005	mg/kg			WG582545	03/13/12 15:52
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG582545	03/13/12 15:52
Total Xylene	< .0015	mg/kg			WG582545	03/13/12 15:52
a,a,a-Trifluorotoluene(FID)		% Rec.	102.6	59-128	WG582545	03/13/12 15:52
a,a,a-Trifluorotoluene(PID)		% Rec.	106.7	54-144	WG582545	03/13/12 15:52
TPH (GC/FID) High Fraction	< 4	ppm			WG582538	03/13/12 23:20
o-Terphenyl		% Rec.	76.57	50-150	WG582538	03/13/12 23:20

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/kg	.05	0.0524	105.	76-113	WG582545
Ethylbenzene	mg/kg	.05	0.0542	108.	78-115	WG582545
Toluene	mg/kg	.05	0.0530	106.	76-114	WG582545
Total Xylene	mg/kg	.15	0.164	110.	81-118	WG582545
a,a,a-Trifluorotoluene(PID)				105.2	54-144	WG582545
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.49	118.	67-135	WG582545
a,a,a-Trifluorotoluene(FID)				111.4	59-128	WG582545
TPH (GC/FID) High Fraction	ppm	60	43.9	73.1	50-150	WG582538
o-Terphenyl				81.06	50-150	WG582538

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0532	0.0524	106.	76-113	1.39	20	WG582545
Ethylbenzene	mg/kg	0.0546	0.0542	109.	78-115	0.730	20	WG582545
Toluene	mg/kg	0.0532	0.0530	106.	76-114	0.250	20	WG582545
Total Xylene	mg/kg	0.165	0.164	110.	81-118	0.690	20	WG582545
a,a,a-Trifluorotoluene(PID)				105.3	54-144			WG582545
TPH (GC/FID) Low Fraction	mg/kg	6.45	6.49	117.	67-135	0.550	20	WG582545
a,a,a-Trifluorotoluene(FID)				111.5	59-128			WG582545
TPH (GC/FID) High Fraction	ppm	46.5	43.9	78.0	50-150	5.92	25	WG582538
o-Terphenyl				86.25	50-150			WG582538

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/kg	0.231	0	.05	92.2	32-137	L564612-04	WG582545
Ethylbenzene	mg/kg	0.219	0	.05	87.8	10-150	L564612-04	WG582545
Toluene	mg/kg	0.229	0	.05	91.7	20-142	L564612-04	WG582545
Total Xylene	mg/kg	0.672	0	.15	89.6	16-141	L564612-04	WG582545
a,a,a-Trifluorotoluene(PID)					104.7	54-144		WG582545
TPH (GC/FID) Low Fraction	mg/kg	21.7	0	5.5	78.8	55-109	L564612-04	WG582545
a,a,a-Trifluorotoluene(FID)					109.0	59-128		WG582545
TPH (GC/FID) High Fraction	ppm	43.7	0	60	72.8	50-150	L564516-03	WG582538
o-Terphenyl					80.65	50-150		WG582538

* 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	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.248	0.231	99.2	32-137	7.35	39	L564612-04	WG582545
Ethylbenzene	mg/kg	0.235	0.219	94.1	10-150	6.96	44	L564612-04	WG582545
Toluene	mg/kg	0.241	0.229	96.5	20-142	5.01	42	L564612-04	WG582545
Total Xylene	mg/kg	0.717	0.672	95.6	16-141	6.44	46	L564612-04	WG582545
a,a,a-Trifluorotoluene(PID)				105.2	54-144				WG582545
TPH (GC/FID) Low Fraction	mg/kg	17.9	21.7	65.0	55-109	19.2	20	L564612-04	WG582545
a,a,a-Trifluorotoluene(FID)				107.1	59-128				WG582545
TPH (GC/FID) High Fraction	ppm	36.5	43.7	60.8	50-150	18.0	25	L564516-03	WG582538
o-Terphenyl				74.34	50-150				WG582538

Batch number /Run number / Sample number cross reference

WG582545: R2071593: L564612-01 02 03 04 05 06 07 08 09 10 11
 WG582538: R2072373: L564612-01 02 03 04 05 06 07 08 09 10 11

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

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

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

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