

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

Location	Sample Date:	Sample Matrix	Matrix Notes	Organic Compounds in Soil (mg/kg [ppm])																Inorganics in Soil			Metals in Soil (mg/kg [ppm])														
				500	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		(<12)	(6-9)	0.39	15000	70	120000	23	3100	400	23	1600	390	390
				TPH (total volatile and extractable petroleum hydrocarbons)			Benzene	Toluene	Ethylbenzene	Xylenes - total	Acenaphthene	Anthracene	Benzo(A)anthracene	Benzo(B)fluoranthene	Benzo(K)fluoranthene	Benzo(A)pyrene	Chrysene	Dibenzo(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-C,D)pyrene	Napthalene	Pyrene	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
PI15	07/01/10	Cuttings		100	BDL	100	BDL	BDL	BDL	0.01	0.029	0.0066	BDL	BDL	BDL	0.0099	BDL	0.0061	0.036	BDL	0.071	0.013	1.3	12	8.6	2.8	3200	BDL	29	BDL	23	15	0.051	30	9.8	BDL	52



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

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

Report Summary

Wednesday July 14, 2010

Report Number: L467261

Samples Received: 07/02/10

Client Project:

Description: PI15 Cuttings

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

Entire Report Reviewed By:

Jarred Willis , ESC Representative

Laboratory Certification Numbers

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

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

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

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

July 14, 2010

Date Received : July 02, 2010
Description : PI15 Cuttings
Sample ID : PI15-SW BACK 070110
Collected By : Blair Rollins
Collection Date : 07/01/10 14:20

ESC Sample # : L467261-01

Site ID : RANGELY

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.5	1.0	mg/kg	6010B	07/12/10	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: 07/14/10 12:05 Printed: 07/14/10 12:06

REPORT OF ANALYSIS

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

July 14, 2010

Date Received : July 02, 2010
Description : PI15 Cuttings
Sample ID : PI15-NW BACK 070110
Collected By : Blair Rollins
Collection Date : 07/01/10 14:30

ESC Sample # : L467261-02

Site ID : RANGELY

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	07/07/10	1
Chromium, Trivalent	25.	0.50	mg/kg	Calc.	07/13/10	1
ORP	120		mV	2580	07/13/10	1
pH	8.8		su	9045D	07/07/10	1
Sodium Adsorption Ratio	1.1			Calc.	07/07/10	1
Specific Conductance	150		umhos/cm	9050AMod	07/13/10	1
Mercury	0.061	0.020	mg/kg	7471	07/05/10	1
Arsenic	4.9	1.0	mg/kg	6010B	07/13/10	1
Barium	240	0.25	mg/kg	6010B	07/13/10	1
Cadmium	BDL	0.25	mg/kg	6010B	07/13/10	1
Chromium	25.	0.50	mg/kg	6010B	07/13/10	1
Copper	23.	1.0	mg/kg	6010B	07/13/10	1
Lead	10.	0.25	mg/kg	6010B	07/13/10	1
Nickel	38.	1.0	mg/kg	6010B	07/13/10	1
Selenium	10.	1.0	mg/kg	6010B	07/13/10	1
Silver	BDL	0.50	mg/kg	6010B	07/13/10	1
Zinc	44.	1.5	mg/kg	6010B	07/13/10	1
Benzene	BDL	0.0025	mg/kg	8021/8015	07/07/10	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/07/10	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	07/07/10	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	07/07/10	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/07/10	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	99.1		% Rec.	8021/8015	07/07/10	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	07/07/10	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	07/06/10	1
Surrogate recovery(%)						
o-Terphenyl	78.2		% Rec.	3546/DRO	07/06/10	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L467261-02 (PH) - 8.8@23.2c



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

July 14, 2010

Date Received : July 02, 2010
Description : PI15 Cuttings
Sample ID : PI15-NW BACK 070110
Collected By : Blair Rollins
Collection Date : 07/01/10 14:30

ESC Sample # : L467261-02

Site ID : RANGELY

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
1-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
2-Methylnaphthalene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Surrogate Recovery						
Nitrobenzene-d5	61.6		% Rec.	8270C-SIM	07/09/10	1
2-Fluorobiphenyl	60.5		% Rec.	8270C-SIM	07/09/10	1
p-Terphenyl-d14	72.7		% Rec.	8270C-SIM	07/09/10	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: 07/14/10 12:05 Printed: 07/14/10 12:06
L467261-02 (PH) - 8.8@23.2c

REPORT OF ANALYSIS

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

July 14, 2010

Date Received : July 02, 2010
Description : PI15 Cuttings
Sample ID : PI15-CUTTINGS 070110
Collected By : Blair Rollins
Collection Date : 07/01/10 15:15

ESC Sample # : L467261-03

Site ID : RANGELY

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	07/07/10	1
Chromium, Trivalent	29.	0.50	mg/kg	Calc.	07/13/10	1
ORP	110		mV	2580	07/13/10	1
pH	8.6		su	9045D	07/07/10	1
Sodium Adsorption Ratio	12.			Calc.	07/07/10	1
Specific Conductance	1300		umhos/cm	9050AMod	07/13/10	1
Mercury	0.051	0.020	mg/kg	7471	07/05/10	1
Arsenic	2.8	1.0	mg/kg	6010B	07/13/10	1
Barium	3200	0.25	mg/kg	6010B	07/13/10	1
Cadmium	BDL	0.25	mg/kg	6010B	07/13/10	1
Chromium	29.	0.50	mg/kg	6010B	07/13/10	1
Copper	23.	1.0	mg/kg	6010B	07/13/10	1
Lead	15.	0.25	mg/kg	6010B	07/13/10	1
Nickel	30.	1.0	mg/kg	6010B	07/13/10	1
Selenium	9.8	1.0	mg/kg	6010B	07/13/10	1
Silver	BDL	0.50	mg/kg	6010B	07/13/10	1
Zinc	52.	1.5	mg/kg	6010B	07/13/10	1
Benzene	BDL	0.0025	mg/kg	8021/8015	07/07/10	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/07/10	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	07/07/10	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	07/07/10	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/07/10	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	98.3		% Rec.	8021/8015	07/07/10	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	07/07/10	5
TPH (GC/FID) High Fraction	100	4.0	mg/kg	3546/DRO	07/06/10	1
Surrogate recovery(%)						
o-Terphenyl	62.5		% Rec.	3546/DRO	07/06/10	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.029	0.0060	mg/kg	8270C-SIM	07/09/10	1
Acenaphthene	0.0097	0.0060	mg/kg	8270C-SIM	07/09/10	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Benzo(a)anthracene	0.0066	0.0060	mg/kg	8270C-SIM	07/09/10	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L467261-03 (PH) - 8.6@23.4c



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

July 14, 2010

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

Date Received : July 02, 2010
Description : PI15 Cuttings
Sample ID : PI15-CUTTINGS 070110
Collected By : Blair Rollins
Collection Date : 07/01/10 15:15

ESC Sample # : L467261-03

Site ID : RANGELY

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Chrysene	0.0099	0.0060	mg/kg	8270C-SIM	07/09/10	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Fluoranthene	0.0061	0.0060	mg/kg	8270C-SIM	07/09/10	1
Fluorene	0.036	0.0060	mg/kg	8270C-SIM	07/09/10	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Naphthalene	0.071	0.0060	mg/kg	8270C-SIM	07/09/10	1
Phenanthrene	0.057	0.0060	mg/kg	8270C-SIM	07/09/10	1
Pyrene	0.013	0.0060	mg/kg	8270C-SIM	07/09/10	1
1-Methylnaphthalene	0.055	0.0060	mg/kg	8270C-SIM	07/09/10	1
2-Methylnaphthalene	0.19	0.0060	mg/kg	8270C-SIM	07/09/10	1
2-Chloronaphthalene	BDL	0.0060	mg/kg	8270C-SIM	07/09/10	1
Surrogate Recovery						
Nitrobenzene-d5	113.		% Rec.	8270C-SIM	07/09/10	1
2-Fluorobiphenyl	73.0		% Rec.	8270C-SIM	07/09/10	1
p-Terphenyl-d14	79.1		% Rec.	8270C-SIM	07/09/10	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: 07/14/10 12:05 Printed: 07/14/10 12:06
L467261-03 (PH) - 8.6@23.4c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L467261-02	WG486918	SAMP	Naphthalene	R1281308	J3
	WG486918	SAMP	1-Methylnaphthalene	R1281308	J3
	WG486918	SAMP	2-Methylnaphthalene	R1281308	J5J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high

Qualifier Report Information

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

Definitions

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

Summary of Remarks For Samples Printed
07/14/10 at 12:06:20

TSR Signing Reports: 358

Sample: L467261-01 Account: ENCANACO Received: 07/02/10 09:00 Due Date: 07/12/10 00:00 RPT Date: 07/14/10 12:05

Sample: L467261-02 Account: ENCANACO Received: 07/02/10 09:00 Due Date: 07/12/10 00:00 RPT Date: 07/14/10 12:05

Sample: L467261-03 Account: ENCANACO Received: 07/02/10 09:00 Due Date: 07/12/10 00:00 RPT Date: 07/14/10 12:05



YOUR LAB OF CHOICE

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

Quality Assurance Report
Level II

L467261

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

July 14, 2010

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Mercury	< .02	mg/kg			WG486803	07/03/10 20:56
TPH (GC/FID) High Fraction	< 4	ppm			WG486860	07/06/10 00:16
o-Terphenyl		% Rec.	91.62	50-150	WG486860	07/06/10 00:16
Chromium, Hexavalent	< 2	mg/kg			WG486722	07/07/10 17:01
pH	5.30	su			WG486856	07/07/10 14:03
1-Methylnaphthalene	< .006	mg/kg			WG486918	07/09/10 10:52
2-Chloronaphthalene	< .006	mg/kg			WG486918	07/09/10 10:52
2-Methylnaphthalene	< .006	mg/kg			WG486918	07/09/10 10:52
Acenaphthene	< .006	mg/kg			WG486918	07/09/10 10:52
Acenaphthylene	< .006	mg/kg			WG486918	07/09/10 10:52
Anthracene	< .006	mg/kg			WG486918	07/09/10 10:52
Benzo(a)anthracene	< .006	mg/kg			WG486918	07/09/10 10:52
Benzo(a)pyrene	< .006	mg/kg			WG486918	07/09/10 10:52
Benzo(b)fluoranthene	< .006	mg/kg			WG486918	07/09/10 10:52
Benzo(g,h,i)perylene	< .006	mg/kg			WG486918	07/09/10 10:52
Benzo(k)fluoranthene	< .006	mg/kg			WG486918	07/09/10 10:52
Chrysene	< .006	mg/kg			WG486918	07/09/10 10:52
Dibenz(a,h)anthracene	< .006	mg/kg			WG486918	07/09/10 10:52
Fluoranthene	< .006	mg/kg			WG486918	07/09/10 10:52
Fluorene	< .006	mg/kg			WG486918	07/09/10 10:52
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG486918	07/09/10 10:52
Naphthalene	< .006	mg/kg			WG486918	07/09/10 10:52
Phenanthrene	< .006	mg/kg			WG486918	07/09/10 10:52
Pyrene	< .006	mg/kg			WG486918	07/09/10 10:52
2-Fluorobiphenyl		% Rec.	89.12	21-120	WG486918	07/09/10 10:52
Nitrobenzene-d5		% Rec.	90.37	33-114	WG486918	07/09/10 10:52
p-Terphenyl-d14		% Rec.	112.2	18-142	WG486918	07/09/10 10:52
Benzene	< .0005	mg/kg			WG487271	07/07/10 18:54
Ethylbenzene	< .0005	mg/kg			WG487271	07/07/10 18:54
Toluene	< .005	mg/kg			WG487271	07/07/10 18:54
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG487271	07/07/10 18:54
Total Xylene	< .0015	mg/kg			WG487271	07/07/10 18:54
a,a,a-Trifluorotoluene(FID)		% Rec.	99.22	59-128	WG487271	07/07/10 18:54
a,a,a-Trifluorotoluene(PID)		% Rec.	102.7	54-144	WG487271	07/07/10 18:54
Arsenic	< 1	mg/kg			WG487234	07/12/10 22:06
Barium	< .25	mg/kg			WG487234	07/12/10 22:06
Cadmium	< .25	mg/kg			WG487234	07/12/10 22:06
Chromium	< .5	mg/kg			WG487234	07/12/10 22:06
Copper	< 1	mg/kg			WG487234	07/12/10 22:06
Lead	< .25	mg/kg			WG487234	07/12/10 22:06
Nickel	< 1	mg/kg			WG487234	07/12/10 22:06
Selenium	< 1	mg/kg			WG487234	07/12/10 22:06
Silver	< .5	mg/kg			WG487234	07/12/10 22:06
Specific Conductance	1.10	umhos/cm			WG487763	07/13/10 08:40

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

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

Quality Assurance Report
Level II

L467261

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

July 14, 2010

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Zinc	< 1.5	mg/kg			WG487234	07/13/10 22:00

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Mercury	mg/kg	0	0	0	20	L467379-01	WG486803
Chromium, Hexavalent	mg/kg	0	0	0	20	L467207-11	WG486722
Chromium, Hexavalent	mg/kg	0	0	0	20	L467207-01	WG486722
pH	su	9.90	9.90	0	1	L467244-01	WG486856
pH	su	5.80	5.80	0	1	L467393-01	WG486856
Arsenic	mg/kg	4.20	4.50	7.85	20	L467261-01	WG487234
Barium	mg/kg	320.	334.	3.35	20	L467261-01	WG487234
Cadmium	mg/kg	0	0.173	NA	20	L467261-01	WG487234
Chromium	mg/kg	24.0	25.0	2.84	20	L467261-01	WG487234
Copper	mg/kg	22.0	22.2	0.451	20	L467261-01	WG487234
Lead	mg/kg	12.0	12.2	0.823	20	L467261-01	WG487234
Nickel	mg/kg	32.0	31.0	3.17	20	L467261-01	WG487234
Selenium	mg/kg	9.00	8.73	3.49	20	L467261-01	WG487234
Silver	mg/kg	0	0	0	20	L467261-01	WG487234
Specific Conductance	umhos/cm	220.	220.	0.456	20	L467873-02	WG487763
Specific Conductance	umhos/cm	3300	3300	0	20	L468098-01	WG487763
ORP	mV	110.	110.	0	20	L467261-03	WG487357
ORP	mV	140.	140.	2.82	20	L467169-07	WG487184
ORP	mV	120.	110.	11.2	20	L467207-06	WG487184

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Mercury	mg/kg	8.77	9.57	109.	71.6-127.7	WG486803
TPH (GC/FID) High Fraction	ppm	60	42.6	71.1	50-150	WG486860
o-Terphenyl				88.99	50-150	WG486860
Chromium, Hexavalent	mg/kg	100	93.7	93.7	50-143	WG486722
pH	su	9.36	9.40	100.	98.9-102.0	WG486856
1-Methylnaphthalene	mg/kg	.033	0.0260	78.9	41-110	WG486918
2-Chloronaphthalene	mg/kg	.033	0.0281	85.3	43-109	WG486918
2-Methylnaphthalene	mg/kg	.033	0.0262	79.5	38-104	WG486918
Acenaphthene	mg/kg	.033	0.0273	82.7	48-103	WG486918
Acenaphthylene	mg/kg	.033	0.0264	79.9	43-106	WG486918

* Performance of this Analyte is outside of established criteria.

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



YOUR LAB OF CHOICE

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

Quality Assurance Report
Level II

L467261

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

July 14, 2010

Analyte	Units	Laboratory Control		Sample	% Rec	Limit	Batch
		Known Val	Result	Result			
Anthracene	mg/kg	.033	0.0284		85.9	51-110	WG486918
Benzo(a)anthracene	mg/kg	.033	0.0288		87.2	38-126	WG486918
Benzo(a)pyrene	mg/kg	.033	0.0283		85.9	47-118	WG486918
Benzo(b)fluoranthene	mg/kg	.033	0.0314		95.2	47-118	WG486918
Benzo(g,h,i)perylene	mg/kg	.033	0.0281		85.3	40-125	WG486918
Benzo(k)fluoranthene	mg/kg	.033	0.0285		86.3	45-121	WG486918
Chrysene	mg/kg	.033	0.0288		87.4	35-135	WG486918
Dibenz(a,h)anthracene	mg/kg	.033	0.0290		87.9	41-124	WG486918
Fluoranthene	mg/kg	.033	0.0317		96.0	50-114	WG486918
Fluorene	mg/kg	.033	0.0300		90.8	49-109	WG486918
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0290		88.0	40-126	WG486918
Naphthalene	mg/kg	.033	0.0240		72.7	36-100	WG486918
Phenanthrene	mg/kg	.033	0.0271		82.2	46-108	WG486918
Pyrene	mg/kg	.033	0.0319		96.6	30-136	WG486918
2-Fluorobiphenyl					86.35	21-120	WG486918
Nitrobenzene-d5					81.78	33-114	WG486918
p-Terphenyl-d14					117.0	18-142	WG486918
Benzene	mg/kg	.05	0.0459		91.8	76-113	WG487271
Ethylbenzene	mg/kg	.05	0.0497		99.4	78-115	WG487271
Toluene	mg/kg	.05	0.0501		100.	76-114	WG487271
Total Xylene	mg/kg	.15	0.155		103.	81-118	WG487271
a,a,a-Trifluorotoluene(FID)					98.37	59-128	WG487271
a,a,a-Trifluorotoluene(PID)					100.3	54-144	WG487271
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.69		103.	67-135	WG487271
a,a,a-Trifluorotoluene(FID)					94.69	59-128	WG487271
a,a,a-Trifluorotoluene(PID)					104.2	54-144	WG487271
Arsenic	mg/kg	192	180.		93.8	78.6-120.8	WG487234
Barium	mg/kg	420	407.		96.9	78.8-121.4	WG487234
Cadmium	mg/kg	70.1	63.9		91.2	78.5-121.5	WG487234
Chromium	mg/kg	168	172.		102.	80.4-120.2	WG487234
Copper	mg/kg	122	121.		99.2	81.6-119.7	WG487234
Lead	mg/kg	113	112.		99.1	77.3-122.1	WG487234
Nickel	mg/kg	74.1	73.5		99.2	78.8-121.2	WG487234
Selenium	mg/kg	176	182.		103.	75.6-125.0	WG487234
Silver	mg/kg	115	105.		91.3	66-133.9	WG487234
Specific Conductance	umhos/cm	406	410.		101.	85-115	WG487763
ORP	mV	229	220.		96.1	95.6-104.37	WG487357
ORP	mV	229	220.		96.1	95.6-104.37	WG487184
Zinc	mg/kg	437	417.		95.4	78.5-121.7	WG487234

Analyte	Units	Laboratory Control		Sample Duplicate	Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
TPH (GC/FID) High Fraction	ppm	43.8	42.6	73.0	50-150	2.69	25	WG486860
o-Terphenyl				85.86	50-150			WG486860

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

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

Quality Assurance Report
Level II

L467261

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

July 14, 2010

	Laboratory Control Sample Duplicate							
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Chromium, Hexavalent	mg/kg	94.6	93.7	95.0	50-143	0.956	20	WG486722
pH	su	9.40	9.40	100.	98.9-102.0	0	20	WG486856
1-Methylnaphthalene	mg/kg	0.0277	0.0260	84.0	41-110	6.03	24	WG486918
2-Chloronaphthalene	mg/kg	0.0300	0.0281	91.0	43-109	6.35	21	WG486918
2-Methylnaphthalene	mg/kg	0.0277	0.0262	84.0	38-104	5.48	24	WG486918
Acenaphthene	mg/kg	0.0270	0.0273	82.0	48-103	1.05	20	WG486918
Acenaphthylene	mg/kg	0.0267	0.0264	81.0	43-106	1.14	20	WG486918
Anthracene	mg/kg	0.0282	0.0284	85.0	51-110	0.554	22	WG486918
Benzo(a)anthracene	mg/kg	0.0266	0.0288	81.0	38-126	7.66	20	WG486918
Benzo(a)pyrene	mg/kg	0.0289	0.0283	87.0	47-118	1.79	20	WG486918
Benzo(b)fluoranthene	mg/kg	0.0286	0.0314	87.0	47-118	9.35	29	WG486918
Benzo(g,h,i)perylene	mg/kg	0.0294	0.0281	89.0	40-125	4.30	20	WG486918
Benzo(k)fluoranthene	mg/kg	0.0310	0.0285	94.0	45-121	8.61	31	WG486918
Chrysene	mg/kg	0.0308	0.0288	93.0	35-135	6.52	20	WG486918
Dibenz(a,h)anthracene	mg/kg	0.0302	0.0290	91.0	41-124	4.02	20	WG486918
Fluoranthene	mg/kg	0.0291	0.0317	88.0	50-114	8.58	20	WG486918
Fluorene	mg/kg	0.0280	0.0300	85.0	49-109	6.81	19	WG486918
Indeno(1,2,3-cd)pyrene	mg/kg	0.0303	0.0290	92.0	40-126	4.36	20	WG486918
Naphthalene	mg/kg	0.0272	0.0240	82.0	36-100	12.6	24	WG486918
Phenanthrene	mg/kg	0.0289	0.0271	87.0	46-108	6.21	21	WG486918
Pyrene	mg/kg	0.0301	0.0319	91.0	30-136	5.88	20	WG486918
2-Fluorobiphenyl				88.12	21-120			WG486918
Nitrobenzene-d5				88.85	33-114			WG486918
p-Terphenyl-d14				107.5	18-142			WG486918
Benzene	mg/kg	0.0470	0.0459	94.0	76-113	2.37	20	WG487271
Ethylbenzene	mg/kg	0.0507	0.0497	101.	78-115	2.07	20	WG487271
Toluene	mg/kg	0.0500	0.0501	100.	76-114	0.320	20	WG487271
Total Xylene	mg/kg	0.157	0.155	104.	81-118	1.21	20	WG487271
a,a,a-Trifluorotoluene(FID)				98.31	59-128			WG487271
a,a,a-Trifluorotoluene(PID)				100.3	54-144			WG487271
TPH (GC/FID) Low Fraction	mg/kg	5.81	5.69	106.	67-135	2.09	20	WG487271
a,a,a-Trifluorotoluene(FID)				93.55	59-128			WG487271
a,a,a-Trifluorotoluene(PID)				104.6	54-144			WG487271
Specific Conductance	umhos/	410.	410.	101.	85-115	0	20	WG487763
ORP	mV	220.	220.	96.0	95.6-104.37	0	20	WG487357
ORP	mV	220.	220.	96.0	95.6-104.37	0	20	WG487184
Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Mercury	mg/kg	0.287	0	.25	115.	70-130	L467379-01	WG486803
TPH (GC/FID) High Fraction	ppm	44.6	0	60	74.4	50-150	L467261-02	WG486860
o-Terphenyl					89.82	50-150		WG486860

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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

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

Quality Assurance Report
Level II

Parachute, CO 81635

July 14, 2010

L467261

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Chromium, Hexavalent	mg/kg	15.1	0	20	75.5	50-150	L467207-02	WG486722
1-Methylnaphthalene	mg/kg	0.0223	0	.033	67.6	19-131	L467261-02	WG486918
2-Chloronaphthalene	mg/kg	0.0229	0	.033	69.5	38-117	L467261-02	WG486918
2-Methylnaphthalene	mg/kg	0.0240	0	.033	72.8	18-125	L467261-02	WG486918
Acenaphthene	mg/kg	0.0229	0	.033	69.4	31-120	L467261-02	WG486918
Acenaphthylene	mg/kg	0.0233	0	.033	70.5	34-116	L467261-02	WG486918
Anthracene	mg/kg	0.0239	0	.033	72.6	32-131	L467261-02	WG486918
Benzo(a)anthracene	mg/kg	0.0279	0	.033	84.5	32-131	L467261-02	WG486918
Benzo(a)pyrene	mg/kg	0.0253	0	.033	76.7	28-130	L467261-02	WG486918
Benzo(b)fluoranthene	mg/kg	0.0274	0	.033	83.0	37-130	L467261-02	WG486918
Benzo(g,h,i)perylene	mg/kg	0.0235	0	.033	71.3	10-134	L467261-02	WG486918
Benzo(k)fluoranthene	mg/kg	0.0247	0	.033	74.7	31-129	L467261-02	WG486918
Chrysene	mg/kg	0.0250	0	.033	75.8	25-137	L467261-02	WG486918
Dibenz(a,h)anthracene	mg/kg	0.0241	0	.033	72.9	20-134	L467261-02	WG486918
Fluoranthene	mg/kg	0.0248	0	.033	75.2	27-138	L467261-02	WG486918
Fluorene	mg/kg	0.0244	0	.033	74.1	26-136	L467261-02	WG486918
Indeno(1,2,3-cd)pyrene	mg/kg	0.0236	0	.033	71.5	16-135	L467261-02	WG486918
Naphthalene	mg/kg	0.0224	0	.033	68.0	22-121	L467261-02	WG486918
Phenanthrene	mg/kg	0.0242	0	.033	73.2	27-133	L467261-02	WG486918
Pyrene	mg/kg	0.0255	0	.033	77.1	22-133	L467261-02	WG486918
2-Fluorobiphenyl					75.74	21-120		WG486918
Nitrobenzene-d5					82.07	33-114		WG486918
p-Terphenyl-d14					92.22	18-142		WG486918
TPH (GC/FID) Low Fraction	mg/kg	21.6	3.10	5.5	67.2	55-109	L466772-01	WG487271
a,a,a-Trifluorotoluene(FID)					94.23	59-128		WG487271
a,a,a-Trifluorotoluene(PID)					102.1	54-144		WG487271
Benzene	mg/kg	0.239	0	.05	95.6	32-137	L466772-01	WG487271
Ethylbenzene	mg/kg	0.242	0.0290	.05	85.2	10-150	L466772-01	WG487271
Toluene	mg/kg	0.240	0	.05	96.1	20-142	L466772-01	WG487271
Total Xylene	mg/kg	0.671	0.0240	.15	86.3	16-141	L466772-01	WG487271
Arsenic	mg/kg	48.3	4.50	50	87.6	75-125	L467261-01	WG487234
Barium	mg/kg	335.	334.	50	2.00*	75-125	L467261-01	WG487234
Cadmium	mg/kg	43.9	0.173	50	87.4	75-125	L467261-01	WG487234
Chromium	mg/kg	75.6	25.0	50	101.	75-125	L467261-01	WG487234
Copper	mg/kg	73.8	22.2	50	103.	75-125	L467261-01	WG487234
Lead	mg/kg	57.7	12.2	50	91.0	75-125	L467261-01	WG487234
Nickel	mg/kg	76.0	31.0	50	90.0	75-125	L467261-01	WG487234
Selenium	mg/kg	51.8	8.73	50	86.1	75-125	L467261-01	WG487234
Silver	mg/kg	46.5	0	50	93.0	75-125	L467261-01	WG487234
Zinc	mg/kg	96.0	0	50	192.*	75-125	L467261-01	WG487234

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Mercury	mg/kg	0.307	0.287	123.	70-130	6.73	20	L467379-01	WG486803
TPH (GC/FID) High Fraction	ppm	42.5	44.6	70.9	50-150	4.81	25	L467261-02	WG486860
o-Terphenyl				82.26	50-150				WG486860

Chromium, Hexavalent	mg/kg	15.4	15.1	77.0	50-150	1.97	20	L467207-02	WG486722
* Performance of this Analyte is outside of established criteria. For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'									



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

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

Quality Assurance Report
Level II

Parachute, CO 81635

July 14, 2010

L467261

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
1-Methylnaphthalene	mg/kg	0.0440	0.0223	133.*	19-131	65.4*	30	L467261-02	WG486918
2-Chloronaphthalene	mg/kg	0.0241	0.0229	73.2	38-117	5.13	26	L467261-02	WG486918
2-Methylnaphthalene	mg/kg	0.0825	0.0240	250.*	18-125	110.*	29	L467261-02	WG486918
Acenaphthene	mg/kg	0.0264	0.0229	79.9	31-120	14.1	30	L467261-02	WG486918
Acenaphthylene	mg/kg	0.0237	0.0233	71.8	34-116	1.76	29	L467261-02	WG486918
Anthracene	mg/kg	0.0241	0.0239	73.1	32-131	0.718	26	L467261-02	WG486918
Benzo(a)anthracene	mg/kg	0.0284	0.0279	85.9	32-131	1.70	31	L467261-02	WG486918
Benzo(a)pyrene	mg/kg	0.0250	0.0253	75.9	28-130	1.09	28	L467261-02	WG486918
Benzo(b)fluoranthene	mg/kg	0.0261	0.0274	79.1	37-130	4.76	41	L467261-02	WG486918
Benzo(g,h,i)perylene	mg/kg	0.0237	0.0235	71.7	10-134	0.522	26	L467261-02	WG486918
Benzo(k)fluoranthene	mg/kg	0.0250	0.0247	75.8	31-129	1.44	42	L467261-02	WG486918
Chrysene	mg/kg	0.0250	0.0250	75.8	25-137	0.0151	22	L467261-02	WG486918
Dibenz(a,h)anthracene	mg/kg	0.0237	0.0241	71.7	20-134	1.71	25	L467261-02	WG486918
Fluoranthene	mg/kg	0.0239	0.0248	72.5	27-138	3.76	35	L467261-02	WG486918
Fluorene	mg/kg	0.0283	0.0244	85.8	26-136	14.6	30	L467261-02	WG486918
Indeno(1,2,3-cd)pyrene	mg/kg	0.0234	0.0236	71.0	16-135	0.673	26	L467261-02	WG486918
Naphthalene	mg/kg	0.0366	0.0224	111.	22-121	47.9*	30	L467261-02	WG486918
Phenanthrene	mg/kg	0.0265	0.0242	80.4	27-133	9.30	36	L467261-02	WG486918
Pyrene	mg/kg	0.0255	0.0255	77.2	22-133	0.0504	33	L467261-02	WG486918
2-Fluorobiphenyl				76.88	21-120				WG486918
Nitrobenzene-d5				85.53	33-114				WG486918
p-Terphenyl-d14				89.08	18-142				WG486918
TPH (GC/FID) Low Fraction	mg/kg	23.1	21.6	72.6	55-109	6.67	20	L466772-01	WG487271
a,a,a-Trifluorotoluene(FID)				93.32	59-128				WG487271
a,a,a-Trifluorotoluene(PID)				102.6	54-144				WG487271
Benzene	mg/kg	0.233	0.239	93.4	32-137	2.41	39	L466772-01	WG487271
Ethylbenzene	mg/kg	0.226	0.242	78.9	10-150	6.68	44	L466772-01	WG487271
Toluene	mg/kg	0.224	0.240	89.5	20-142	7.04	42	L466772-01	WG487271
Total Xylene	mg/kg	0.612	0.671	78.4	16-141	9.20	46	L466772-01	WG487271
Arsenic	mg/kg	51.7	48.3	94.4	75-125	6.80	20	L467261-01	WG487234
Barium	mg/kg	347.	335.	26.0*	75-125	3.52	20	L467261-01	WG487234
Cadmium	mg/kg	45.3	43.9	90.2	75-125	3.14	20	L467261-01	WG487234
Chromium	mg/kg	72.9	75.6	95.8	75-125	3.64	20	L467261-01	WG487234
Copper	mg/kg	72.0	73.8	99.6	75-125	2.47	20	L467261-01	WG487234
Lead	mg/kg	60.4	57.7	96.4	75-125	4.57	20	L467261-01	WG487234
Nickel	mg/kg	75.2	76.0	88.4	75-125	1.06	20	L467261-01	WG487234
Selenium	mg/kg	54.6	51.8	91.7	75-125	5.26	20	L467261-01	WG487234
Silver	mg/kg	48.0	46.5	96.0	75-125	3.17	20	L467261-01	WG487234
Zinc	mg/kg	88.4	96.0	177.*	75-125	8.24	20	L467261-01	WG487234

Batch number /Run number / Sample number cross reference

WG486803: R1276090: L467261-02 03
WG486860: R1277131: L467261-02 03
WG486722: R1278597: L467261-02 03
WG486856: R1278968: L467261-02 03
WG487013: R1279388: L467261-02 03
WG486918: R1281308: L467261-02 03
WG487271: R1282251: L467261-02 03
WG487234: R1283808: L467261-01 02 03
WG487763: R1284188: L467261-02 03
WG487357: R1284529: L467261-03
WG487184: R1284872: L467261-02

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

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

Parachute, CO 81635

Quality Assurance Report
Level II

L467261

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

July 14, 2010

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

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

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

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