



Laboratory Results Summary Table

05/28/2015

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

Allowable Concentration →				Organic Compounds in Soil (mg/kg [ppm])																		Inorganics in Soil		Metals in Soil (mg/kg [ppm])														
Location	Sample Date:	Sample Matrix	Matrix Notes	TPH (total volatile and extractable petroleum hydrocarbons)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C36) High Fraction	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	Naphthalene	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	Zinc
500				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	23000				
NGG30NE	06/19/14	Cuttings	composite 1	40	BDL	40	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13	BDL	0.87	10	8.4	3.5	5300	BDL	8.2	BDL	20	18	0.048	7	BDL	BDL	51
NGG30NE	06/19/14	Cuttings	composite 2	52	BDL	52	0.0058	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.81	14	8.4	3.6	5500	BDL	8.3	BDL	14	7.4	0.027	7.2	BDL	BDL	45
NGG30NE	06/19/14	Cuttings	composite 3	24	BDL	24	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.11	BDL	0.72	5.9	8.4	3.6	6000	BDL	9.2	BDL	12	7	0.031	7.1	BDL	BDL	45



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Est. 1970

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

Report Summary

Wednesday June 25, 2014

Report Number: L705815


Samples Received: 06/20/14

Client Project: NGG30NE

Description: NGG30NE 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:


Jared Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

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

June 25, 2014

Date Received : June 20, 2014
Description : NGG30NE Cuttings
Sample ID : 20140619-NGG30NE (CUT01) 6-12IN
Collected By : Chance White
Collection Date : 06/19/14 09:35

ESC Sample # : L705815-01
Site ID : NGG30NE
Project # : NGG30NE

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/23/14	1
Chromium, Trivalent	8.2	2.0	mg/kg	Calc.	06/24/14	1
ORP	70.		mV	2580 B-2011	06/24/14	1
pH	8.4		su	9045D	06/21/14	1
Sodium Adsorption Ratio	10.			Calc.	06/24/14	1
Specific Conductance	870		umhos/cm	9050AMod	06/24/14	1
Mercury	0.048	0.020	mg/kg	7471	06/21/14	1
Arsenic	3.5	2.0	mg/kg	6010B	06/23/14	1
Barium	5300	0.50	mg/kg	6010B	06/23/14	1
Cadmium	BDL	0.50	mg/kg	6010B	06/23/14	1
Chromium	8.2	1.0	mg/kg	6010B	06/23/14	1
Copper	20.	2.0	mg/kg	6010B	06/23/14	1
Lead	18.	0.50	mg/kg	6010B	06/23/14	1
Nickel	7.0	2.0	mg/kg	6010B	06/23/14	1
Selenium	BDL	2.0	mg/kg	6010B	06/23/14	1
Silver	BDL	1.0	mg/kg	6010B	06/23/14	1
Zinc	51.	3.0	mg/kg	6010B	06/23/14	1
Benzene	BDL	0.0025	mg/kg	8021	06/24/14	5
Toluene	BDL	0.025	mg/kg	8021	06/24/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	06/24/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	06/24/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	06/24/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8021/8015	06/24/14	5
a,a,a-Trifluorotoluene(PID)	96.1		% Rec.	8021/8015	06/24/14	5
TPH (GC/FID) High Fraction	40.	20.	mg/kg	8015D/DRO	06/25/14	5
Surrogate recovery(%)						
o-Terphenyl	38.0		% Rec.	8015D/DRO	06/25/14	5
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Acenaphthene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Acenaphthylene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Benzo(a)anthracene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Benzo(a)pyrene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

L705815-01 (PH) - 8.4@22.0c

L705815-01 (DRO) - Previous run also had low surrogate recovery. Dilution due to matrix



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Sample ID : 20140619-NGG30NE (CUT01) 6-12IN
Collected By : Chance White
Collection Date : 06/19/14 09:35

ESC Sample # : L705815-01

Site ID : NGG30NE

Project # : NGG30NE

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Benzo(g,h,i)perylene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Benzo(k)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Chrysene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Dibenz(a,h)anthracene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Fluoranthene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Fluorene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Indeno(1,2,3-cd)pyrene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Naphthalene	0.13	0.10	mg/kg	8270C-SIM	06/22/14	5
Phenanthrene	0.055	0.030	mg/kg	8270C-SIM	06/22/14	5
Pyrene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
1-Methylnaphthalene	0.13	0.10	mg/kg	8270C-SIM	06/22/14	5
2-Methylnaphthalene	0.37	0.10	mg/kg	8270C-SIM	06/22/14	5
2-Chloronaphthalene	BDL	0.10	mg/kg	8270C-SIM	06/22/14	5
Surrogate Recovery						
p-Terphenyl-d14	82.6		% Rec.	8270C-SIM	06/22/14	5
Nitrobenzene-d5	74.7		% Rec.	8270C-SIM	06/22/14	5
2-Fluorobiphenyl	69.3		% Rec.	8270C-SIM	06/22/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 06/25/14 13:54 Printed: 06/25/14 13:54

L705815-01 (PH) - 8.4@22.0c

L705815-01 (DRO) - Previous run also had low surrogate recovery. Dilution due to matrix



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REPORT OF ANALYSIS

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

June 25, 2014

Date Received : June 20, 2014
Description : NGG30NE Cuttings
Sample ID : 20140619-NGG30NE (CUT02) 6-12IN
Collected By : Chance White
Collection Date : 06/19/14 10:00

ESC Sample # : L705815-02

Site ID : NGG30NE

Project # : NGG30NE

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/23/14	1
Chromium, Trivalent	8.3	2.0	mg/kg	Calc.	06/24/14	1
ORP	60.		mV	2580 B-2011	06/24/14	1
pH	8.4		su	9045D	06/21/14	1
Sodium Adsorption Ratio	14.			Calc.	06/24/14	1
Specific Conductance	810		umhos/cm	9050AMod	06/24/14	1
Mercury	0.027	0.020	mg/kg	7471	06/23/14	1
Arsenic	3.6	2.0	mg/kg	6010B	06/23/14	1
Barium	5500	0.50	mg/kg	6010B	06/23/14	1
Cadmium	BDL	0.50	mg/kg	6010B	06/23/14	1
Chromium	8.3	1.0	mg/kg	6010B	06/23/14	1
Copper	14.	2.0	mg/kg	6010B	06/23/14	1
Lead	7.4	0.50	mg/kg	6010B	06/23/14	1
Nickel	7.2	2.0	mg/kg	6010B	06/23/14	1
Selenium	BDL	2.0	mg/kg	6010B	06/23/14	1
Silver	BDL	1.0	mg/kg	6010B	06/23/14	1
Zinc	45.	3.0	mg/kg	6010B	06/23/14	1
Benzene	0.0058	0.0025	mg/kg	8021	06/24/14	5
Toluene	BDL	0.025	mg/kg	8021	06/24/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	06/24/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	06/24/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	06/24/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8021/8015	06/24/14	5
a,a,a-Trifluorotoluene(PID)	97.1		% Rec.	8021/8015	06/24/14	5
TPH (GC/FID) High Fraction	52.	20.	mg/kg	8015D/DRO	06/25/14	5
Surrogate recovery(%)						
o-Terphenyl	41.5		% Rec.	8015D/DRO	06/25/14	5
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Acenaphthene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Acenaphthylene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Benzo(a)anthracene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Benzo(a)pyrene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

L705815-02 (PH) - 8.4@22.0c

L705815-02 (DRO) - Previous run also had low surrogate recovery. Dilution due to matrix



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143 Diamond Avenue
Parachute, CO 81635

June 25, 2014

Date Received : June 20, 2014
Description : NGG30NE Cuttings
Sample ID : 20140619-NGG30NE (CUT02) 6-12IN
Collected By : Chance White
Collection Date : 06/19/14 10:00

ESC Sample # : L705815-02

Site ID : NGG30NE

Project # : NGG30NE

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Benzo(g,h,i)perylene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Benzo(k)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Chrysene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Dibenz(a,h)anthracene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Fluoranthene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Fluorene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Indeno(1,2,3-cd)pyrene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Naphthalene	BDL	0.10	mg/kg	8270C-SIM	06/22/14	5
Phenanthrene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Pyrene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
1-Methylnaphthalene	BDL	0.10	mg/kg	8270C-SIM	06/22/14	5
2-Methylnaphthalene	0.15	0.10	mg/kg	8270C-SIM	06/22/14	5
2-Chloronaphthalene	BDL	0.10	mg/kg	8270C-SIM	06/22/14	5
Surrogate Recovery						
p-Terphenyl-d14	92.0		% Rec.	8270C-SIM	06/22/14	5
Nitrobenzene-d5	72.2		% Rec.	8270C-SIM	06/22/14	5
2-Fluorobiphenyl	73.1		% Rec.	8270C-SIM	06/22/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L705815-02 (PH) - 8.4@22.0c

L705815-02 (DRO) - Previous run also had low surrogate recovery. Dilution due to matrix



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143 Diamond Avenue
Parachute, CO 81635

June 25, 2014

Date Received : June 20, 2014
Description : NGG30NE Cuttings
Sample ID : 20140619-NGG30NE (CUT03) 6-12IN
Collected By : Chance White
Collection Date : 06/19/14 10:15

ESC Sample # : L705815-03

Site ID : NGG30NE

Project # : NGG30NE

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/23/14	1
Chromium, Trivalent	9.2	2.0	mg/kg	Calc.	06/24/14	1
ORP	70.		mV	2580 B-2011	06/24/14	1
pH	8.4		su	9045D	06/21/14	1
Sodium Adsorption Ratio	5.9			Calc.	06/24/14	1
Specific Conductance	720		umhos/cm	9050AMod	06/24/14	1
Mercury	0.031	0.020	mg/kg	7471	06/23/14	1
Arsenic	3.6	2.0	mg/kg	6010B	06/23/14	1
Barium	6000	0.50	mg/kg	6010B	06/23/14	1
Cadmium	BDL	0.50	mg/kg	6010B	06/23/14	1
Chromium	9.2	1.0	mg/kg	6010B	06/23/14	1
Copper	12.	2.0	mg/kg	6010B	06/23/14	1
Lead	7.0	0.50	mg/kg	6010B	06/23/14	1
Nickel	7.1	2.0	mg/kg	6010B	06/23/14	1
Selenium	BDL	2.0	mg/kg	6010B	06/23/14	1
Silver	BDL	1.0	mg/kg	6010B	06/23/14	1
Zinc	45.	3.0	mg/kg	6010B	06/23/14	1
Benzene	BDL	0.0025	mg/kg	8021	06/24/14	5
Toluene	BDL	0.025	mg/kg	8021	06/24/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	06/24/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	06/24/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	06/24/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8021/8015	06/24/14	5
a,a,a-Trifluorotoluene(PID)	98.0		% Rec.	8021/8015	06/24/14	5
TPH (GC/FID) High Fraction	24.	20.	mg/kg	8015D/DRO	06/25/14	5
Surrogate recovery(%)						
o-Terphenyl	48.8		% Rec.	8015D/DRO	06/25/14	5
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Acenaphthene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Acenaphthylene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Benzo(a)anthracene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Benzo(a)pyrene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

L705815-03 (DRO) - Previous run also had low surrogate recovery. Dilution due to matrix.

L705815-03 (PH) - 8.4@22.1c



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June 25, 2014

Date Received : June 20, 2014
Description : NGG30NE Cuttings
Sample ID : 20140619-NGG30NE (CUT03) 6-12IN
Collected By : Chance White
Collection Date : 06/19/14 10:15

ESC Sample # : L705815-03
Site ID : NGG30NE
Project # : NGG30NE

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Benzo(g,h,i)perylene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Benzo(k)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Chrysene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Dibenz(a,h)anthracene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Fluoranthene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Fluorene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Indeno(1,2,3-cd)pyrene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
Naphthalene	0.11	0.10	mg/kg	8270C-SIM	06/22/14	5
Phenanthrene	0.045	0.030	mg/kg	8270C-SIM	06/22/14	5
Pyrene	BDL	0.030	mg/kg	8270C-SIM	06/22/14	5
1-Methylnaphthalene	BDL	0.10	mg/kg	8270C-SIM	06/22/14	5
2-Methylnaphthalene	0.30	0.10	mg/kg	8270C-SIM	06/22/14	5
2-Chloronaphthalene	BDL	0.10	mg/kg	8270C-SIM	06/22/14	5
Surrogate Recovery						
p-Terphenyl-d14	87.9		% Rec.	8270C-SIM	06/22/14	5
Nitrobenzene-d5	76.8		% Rec.	8270C-SIM	06/22/14	5
2-Fluorobiphenyl	73.5		% Rec.	8270C-SIM	06/22/14	5

BDL - Below Detection Limit

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L705815-03 (DRO) - Previous run also had low surrogate recovery. Dilution due to matrix.

L705815-03 (PH) - 8.4@22.1c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L705815-01	WG728075	SAMP	o-Terphenyl	R2948586	J2
	WG727765	SAMP	Chromium, Hexavalent	R2947411	T9
L705815-02	WG728075	SAMP	o-Terphenyl	R2948586	J2
	WG727765	SAMP	Chromium, Hexavalent	R2947411	T9
L705815-03	WG728075	SAMP	o-Terphenyl	R2948586	J2

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
T9	(ESC) - Additional method/sample information: The sample result represents blank correction

Qualifier Report Information

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

Definitions

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

Summary of Remarks For Samples Printed
06/25/14 at 13:54:56

TSR Signing Reports: 358
R4 - Rush: Three Day

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

Sample: L705815-01 Account: ENCANACO Received: 06/20/14 09:00 Due Date: 06/25/14 00:00 RPT Date: 06/25/14 13:54

Sample: L705815-02 Account: ENCANACO Received: 06/20/14 09:00 Due Date: 06/25/14 00:00 RPT Date: 06/25/14 13:54

Sample: L705815-03 Account: ENCANACO Received: 06/20/14 09:00 Due Date: 06/25/14 00:00 RPT Date: 06/25/14 13:54