



Facility: 414395
Location: 335680
Rem: 9307
Document #: 2210624
Date: 11/18/2015

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

M23 496 (Location: 335680)
Pit (Facility: 414395)
Encana Oil & Gas (USA) Inc. (Operator: 100185)

Encana Oil & Gas (USA) Inc. (Encana) is submitting this Form 4 (Status Update and Notice of Intent) to document site investigation activities associated with the closure of a lined earthen pit on the M23 496 well pad, specified above, in the North Parachute area of operation in Garfield County. This form was also prepared to document transfer of materials from four (4) nearby Encana locations, detailed below, for the purpose of completing remediation and providing backfill for the pit excavation at this location. These transfers were carried out entirely on Encana owned surface and access roads. The attached topographic location map shows the four (4) locations for the material transfers relative to this location.

REPORT OF WORK COMPLETED

- Form 27 (Doc: 2315685) (Rem: 9307)
- Form 19 (Doc: 400922739)

Initial pit closure and characterization efforts were carried out in October, 2015. The pit was drained, and the liner and above-liner solids were removed for offsite disposal. Below-liner soil conditions were assessed with field observations and collection of six (6) grab samples from the pit bottom and side walls submitted to the laboratory for analysis of COGCC Table 910-1 constituents of concern. Sample results identified concentrations/levels above the allowable limits for TPH, EC, SAR, and arsenic. In accordance with COGCC Rule 905.c, a Form 19 was submitted to document discovery of impacted soils beneath the liner.

Following identification of below-liner impacts at this location (M23 496) and two (2) nearby pit closure locations (A05 596 and L27 496), a plan was developed to utilize the largest pit excavation on the M23 496 to complete in-situ remediation for all pit impacted spoil in the area. Details on the proposed remediation approach are provided below in the Notice of Intent.

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

NOTICE OF INTENT

Impacted pit spoil, drill cuttings, subsoil fill, and fertilizer will be blended to achieve remediation and reclamation objectives. The blended material will be used to backfill the pit excavation and will be capped by at least three feet (3') of native fill. After interim reclamation earthwork, seeding, and stabilization are completed on the location; a soil-auger rig will be used to characterize the constructed remediation cell and install wells. The wells will be capped with wind-powered ventilator turbines, solar-blowers, or similar active system to support augmented bioremediation. The following table details backfill material and its origin.

Material Description and Volume	Material Origin (Location Name)	Material Origin (Location ID)
1,000 yards – pit spoil	A05 596 pit closure	335909
1,500 yards – pit spoil	L27 496 pit closure	335939
500 yards – drill cuttings	N22 496 well pad	423064
2,000 yards – drill cuttings	E34 496 well pad	335928
2,000 yards – native fill	M23 496 well pad	335680

A Form 4 (Status Update) will be prepared and submitted to the COGCC to provide the results of the remediation cell characterization efforts, and detail the installed remediation system. After installation, the remediation system will receive regular operations and maintenance (O&M) visits to collect readings on remediation system function and monitor data for indicators that a remediation endpoint has been achieved. An annual report of O&M data will be provided to the COGCC in a Form 4 (Status Update).

When O&M data indicates that a remediation endpoint may have been reached, a soil-auger rig will be scheduled to collect additional samples to demonstrate successful completion of remediation efforts. A Form 4 (Notification of Completion) for this project will be submitted when clearance samples are received following a characterization event.

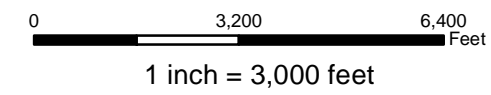
There is no groundwater within 100 feet of surface at this location, no surface water receptors within 1,000 feet, and no water wells within one (1) mile. In addition, Encana has maintained an extensive water quality monitoring program in the North Parachute Properties for nearly a decade. This program will continue into the future, and any water quality impacts would be reported promptly.

ATTACHMENTS

1. Topographic Location Map
2. Laboratory Results Summary Table – M23 496 Pit Characterization
3. Laboratory Reports – M23 496 Pit Characterization



North Parachute Mountain
Garfield County, Colorado



T004S-R097W

T005S-R097W

A05 Well Pad and Pit
Location ID: 335909
1,000 yards - Pit Spoil

E34 Well Pad
Location ID: 335928
2,000 yards - Cuttings

L27 Well Pad and Pit
Location ID: 335939
1,500 yards - Pit Spoil

N22 Well Pad
Location ID: 423064
500 yards - Cuttings


T004S-R096W


M23 Well Pad and Pit
Location ID: 335680
Facility ID: 414395
Rem #: 9307


T005S-R096W

T004S-R095W


T005S-R095W


 Encana Site Boundary


 Access Road


 Township Boundary

Surface Ownership

 Not Identified Below (clear)

 EnCana (transparent)

 USFS (transparent)

 BLM (transparent)

				Organic Compounds in Soil (mg/kg [ppm])																		Inorganics in Soil			Metals in Soil (mg/kg [ppm])													
Allowable Concentration -->				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
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	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	Zinc
M23	10/09/15	Pit	S pit bottom	4890	590	4300	0.066	0.016	0.31	15	<0.0030	<0.0039	<0.0048	<0.0027	<0.0050	<0.0017	<0.0067	<0.0026	<0.0049	0.81	<0.0050	1.4	<0.0060	20	77	8.5	2.7	1200	0.11			18	8.6	0.03	29	1.1	0.048	57
M23	10/09/15	Pit	N pit bottom	11100	1100	10000	0.02	<0.012	0.019	22																												
M23	10/09/15	Pit	N wall	135	54	81	<0.0076	<0.011	<0.0079	<0.026																												
M23	10/09/15	Pit	S wall	37	<1.4	37	<0.0077	<0.011	<0.0080	<0.026																												
M23	10/09/15	Pit	E wall	56	<1.4	56	<0.0076	<0.011	<0.0078	<0.026																												
M23	10/09/15	Pit	W wall	97	<1.3	97	<0.0073	0.011	<0.0075	<0.025																												



21-Oct-2015

Brett Middleton
Encana Oil and Gas (USA) Inc.
143 Diamond Avenue
Parachute, CO 81635

Re: **Pit Sampling M23 NPM**

Work Order: **1510714**

Dear Brett,

ALS Environmental received 6 samples on 10-Oct-2015 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 30.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Les Arnold".

Electronically approved by: Chad Whelton

Les Arnold
Senior Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Encana Oil and Gas (USA) Inc.
Project: Pit Sampling M23 NPM
Work Order: 1510714

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1510714-01	20151009-M23 (S-PR)	Soil		10/9/2015 12:40	10/10/2015 10:00	<input type="checkbox"/>
1510714-02	20151009-M23 (N-PR)	Soil		10/9/2015 13:00	10/10/2015 10:00	<input type="checkbox"/>
1510714-03	20151009-M23 (N Wall)	Soil		10/9/2015 13:04	10/10/2015 10:00	<input type="checkbox"/>
1510714-04	20151009-M23 (S Wall)	Soil		10/9/2015 12:46	10/10/2015 10:00	<input type="checkbox"/>
1510714-05	20151009-M23 (E Wall)	Soil		10/9/2015 12:54	10/10/2015 10:00	<input type="checkbox"/>
1510714-06	20151009-M23 (W Wall)	Soil		10/9/2015 12:51	10/10/2015 10:00	<input type="checkbox"/>

Client: Encana Oil and Gas (USA) Inc.**Project:** Pit Sampling M23 NPM**Work Order:** 1510714**Case Narrative**

Batch 77356A, Method DRO_8015_S, Sample 1510714-02A: The DRO surrogate recovery was high due to dilution and interference in the sample matrix.

Batch 77356A, Method DRO_8015_S, Sample 1510714-06A MS/MSD: The MS and MSD recovery was below the lower control limit for DRO. The corresponding result in the parent sample may be biased low.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 21-Oct-15

Client: Encana Oil and Gas (USA) Inc.
Project: Pit Sampling M23 NPM
Sample ID: 20151009-M23 (S-PR)
Collection Date: 10/9/2015 12:40 PM

Work Order: 1510714
Lab ID: 1510714-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M				Analyst: IT
DRO (C10-C28)	4,300		16	50	mg/Kg-dry	10	10/14/2015 18:07
Surr: 4-Terphenyl-d14	94.2			39-133	%REC	10	10/14/2015 18:07
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D			Prep: SW5035 / 10/13/15	Analyst: IT
GRO (C6-C10)	590		1.5	3.0	mg/Kg-dry	1	10/13/2015 17:01
Surr: Toluene-d8	104			50-150	%REC	1	10/13/2015 17:01
MERCURY BY CVAA							
			Method: SW7471B			Prep: SW7471 / 10/13/15	Analyst: LR
Mercury	0.030		0.0013	0.016	mg/Kg-dry	1	10/13/2015 23:56
METALS ANALYSIS BY ICP							
			Method: SW846 6010C			Prep: SW3050B / 10/12/15	Analyst: JEC
Arsenic	2.7		0.10	0.41	mg/Kg-dry	1	10/12/2015 18:31
Barium	1,200		0.19	0.41	mg/Kg-dry	1	10/12/2015 18:31
Cadmium	0.11	J	0.064	0.82	mg/Kg-dry	1	10/12/2015 18:31
Chromium	36		0.013	0.41	mg/Kg-dry	1	10/12/2015 18:31
Copper	18		0.045	0.82	mg/Kg-dry	1	10/12/2015 18:31
Lead	8.6		0.049	0.41	mg/Kg-dry	1	10/12/2015 18:31
Nickel	29		0.13	0.41	mg/Kg-dry	1	10/12/2015 18:31
Selenium	1.1		0.25	0.82	mg/Kg-dry	1	10/13/2015 13:58
Silver	0.048	J	0.041	0.41	mg/Kg-dry	1	10/12/2015 18:31
Zinc	57		0.13	0.82	mg/Kg-dry	1	10/12/2015 18:31
SOLUBLE CATIONS FOR SAR							
			Method: SW846 6010C			Prep: USDA Method 20B / 10/15/15	Analyst: JEC
Calcium	130		0.22	5.0	mg/L	10	10/16/2015 16:43
Magnesium	6.8		0.22	2.0	mg/L	10	10/16/2015 16:43
Sodium	3,300		0.24	2.0	mg/L	10	10/16/2015 16:43
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2			Prep: USDA Method 20B / 10/15/15	Analyst: JEC
Sodium Adsorption Ratio	77		0.010	0.010	none	1	10/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS							
			Method: SW846 8270D			Prep: SW3541 / 10/13/15	Analyst: RS
Acenaphthene	U		0.0030	0.0080	mg/Kg-dry	1	10/16/2015 06:25
Anthracene	U		0.0039	0.0080	mg/Kg-dry	1	10/16/2015 06:25
Benzo(a)anthracene	U		0.0048	0.0080	mg/Kg-dry	1	10/16/2015 06:25
Benzo(a)pyrene	U		0.0017	0.0080	mg/Kg-dry	1	10/16/2015 06:25
Benzo(b)fluoranthene	U		0.0027	0.0080	mg/Kg-dry	1	10/16/2015 06:25
Benzo(k)fluoranthene	U		0.0050	0.0080	mg/Kg-dry	1	10/16/2015 06:25
Chrysene	U		0.0067	0.0080	mg/Kg-dry	1	10/16/2015 06:25
Dibenzo(a,h)anthracene	U		0.0026	0.0080	mg/Kg-dry	1	10/16/2015 06:25
Fluoranthene	U		0.0049	0.0080	mg/Kg-dry	1	10/16/2015 06:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 21-Oct-15

Client: Encana Oil and Gas (USA) Inc.
Project: Pit Sampling M23 NPM
Sample ID: 20151009-M23 (S-PR)
Collection Date: 10/9/2015 12:40 PM

Work Order: 1510714
Lab ID: 1510714-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	0.81		0.0044	0.0080	mg/Kg-dry	1	10/16/2015 06:25
Indeno(1,2,3-cd)pyrene	U		0.0050	0.0080	mg/Kg-dry	1	10/16/2015 06:25
Naphthalene	1.4		0.0021	0.0080	mg/Kg-dry	1	10/16/2015 06:25
Pyrene	U		0.0060	0.0080	mg/Kg-dry	1	10/16/2015 06:25
Surr: 2-Fluorobiphenyl	57.7			12-100	%REC	1	10/16/2015 06:25
Surr: 4-Terphenyl-d14	93.3			25-137	%REC	1	10/16/2015 06:25
Surr: Nitrobenzene-d5	62.6			37-107	%REC	1	10/16/2015 06:25
VOLATILE ORGANIC COMPOUNDS			Method: SW8260B		Prep: SW5035 / 10/13/15		Analyst: BG
Benzene	0.066		0.0081	0.036	mg/Kg-dry	1	10/18/2015 07:57
Ethylbenzene	0.31		0.0084	0.036	mg/Kg-dry	1	10/18/2015 07:57
m,p-Xylene	13		0.032	0.14	mg/Kg-dry	2	10/19/2015 16:23
o-Xylene	2.0		0.012	0.036	mg/Kg-dry	1	10/18/2015 07:57
Toluene	0.016	J	0.012	0.036	mg/Kg-dry	1	10/18/2015 07:57
Xylenes, Total	15		0.056	0.22	mg/Kg-dry	2	10/19/2015 16:23
Surr: 1,2-Dichloroethane-d4	98.8			70-130	%REC	1	10/18/2015 07:57
Surr: 1,2-Dichloroethane-d4	98.3			70-130	%REC	2	10/19/2015 16:23
Surr: 4-Bromofluorobenzene	95.8			70-130	%REC	1	10/18/2015 07:57
Surr: 4-Bromofluorobenzene	118			70-130	%REC	2	10/19/2015 16:23
Surr: Dibromofluoromethane	93.1			70-130	%REC	1	10/18/2015 07:57
Surr: Dibromofluoromethane	98.8			70-130	%REC	2	10/19/2015 16:23
Surr: Toluene-d8	104			70-130	%REC	1	10/18/2015 07:57
Surr: Toluene-d8	94.4			70-130	%REC	2	10/19/2015 16:23
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/15/15		Analyst: JB
Electrical Conductivity @ Saturation	20		0.0055	0.050	mmhos/cm @25°	10	10/15/2015 12:15
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JB
Chromium, Trivalent	36		0.31	0.60	mg/Kg-dry	1	10/15/2015 08:30
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 10/13/15		Analyst: MB
Chromium, Hexavalent	U		0.33	1.1	mg/Kg-dry	1	10/14/2015 16:00
MOISTURE			Method: E160.3M				Analyst: LR
Moisture	17		0.025	0.050	% of sample	1	10/15/2015 07:20
PH			Method: SW9045D		Prep: EXTRACT / 10/12/15		Analyst: STP
pH	8.5		0		s.u.	1	10/12/2015 16:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 21-Oct-15

Client: Encana Oil and Gas (USA) Inc.
Project: Pit Sampling M23 NPM
Sample ID: 20151009-M23 (N-PR)
Collection Date: 10/9/2015 01:00 PM

Work Order: 1510714
Lab ID: 1510714-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M				Analyst: IT
DRO (C10-C28)	10,000		40	120	mg/Kg-dry	25	10/14/2015 18:37
Surr: 4-Terphenyl-d14	136	S		39-133	%REC	25	10/14/2015 18:37
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D			Prep: SW5035 / 10/13/15	Analyst: IT
GRO (C6-C10)	1,100		1.4	3.0	mg/Kg-dry	1	10/13/2015 17:26
Surr: Toluene-d8	104			50-150	%REC	1	10/13/2015 17:26
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260B			Prep: SW5035 / 10/13/15	Analyst: BG
Benzene	0.020	J	0.0081	0.036	mg/Kg-dry	1	10/19/2015 22:58
Ethylbenzene	0.019	J	0.0083	0.036	mg/Kg-dry	1	10/19/2015 22:58
m,p-Xylene	15		0.16	0.72	mg/Kg-dry	10	10/20/2015 16:56
o-Xylene	6.6		0.12	0.36	mg/Kg-dry	10	10/20/2015 16:56
Toluene	U		0.012	0.036	mg/Kg-dry	1	10/19/2015 22:58
Xylenes, Total	22		0.28	1.1	mg/Kg-dry	10	10/20/2015 16:56
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	10/19/2015 22:58
Surr: 1,2-Dichloroethane-d4	99.0			70-130	%REC	10	10/20/2015 16:56
Surr: 4-Bromofluorobenzene	93.2			70-130	%REC	1	10/19/2015 22:58
Surr: 4-Bromofluorobenzene	98.8			70-130	%REC	10	10/20/2015 16:56
Surr: Dibromofluoromethane	93.8			70-130	%REC	1	10/19/2015 22:58
Surr: Dibromofluoromethane	95.5			70-130	%REC	10	10/20/2015 16:56
Surr: Toluene-d8	120			70-130	%REC	1	10/19/2015 22:58
Surr: Toluene-d8	105			70-130	%REC	10	10/20/2015 16:56
MOISTURE							
			Method: E160.3M				Analyst: LR
Moisture	16		0.025	0.050	% of sample	1	10/15/2015 07:20

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 21-Oct-15

Client: Encana Oil and Gas (USA) Inc.
Project: Pit Sampling M23 NPM
Sample ID: 20151009-M23 (N Wall)
Collection Date: 10/9/2015 01:04 PM

Work Order: 1510714
Lab ID: 1510714-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3541 / 10/15/15		Analyst: IT
DRO (C10-C28)	81		1.5	4.7	mg/Kg-dry	1	10/15/2015 23:45
Surr: 4-Terphenyl-d14	96.5			39-133	%REC	1	10/15/2015 23:45
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 10/13/15		Analyst: IT
GRO (C6-C10)	54		1.4	2.8	mg/Kg-dry	1	10/13/2015 17:51
Surr: Toluene-d8	107			50-150	%REC	1	10/13/2015 17:51
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260B		Prep: SW5035 / 10/13/15		Analyst: BG
Benzene	U		0.0076	0.034	mg/Kg-dry	1	10/18/2015 06:17
Ethylbenzene	U		0.0079	0.034	mg/Kg-dry	1	10/18/2015 06:17
m,p-Xylene	U		0.015	0.068	mg/Kg-dry	1	10/18/2015 06:17
o-Xylene	U		0.011	0.034	mg/Kg-dry	1	10/18/2015 06:17
Toluene	U		0.011	0.034	mg/Kg-dry	1	10/18/2015 06:17
Xylenes, Total	U		0.026	0.10	mg/Kg-dry	1	10/18/2015 06:17
Surr: 1,2-Dichloroethane-d4	98.2			70-130	%REC	1	10/18/2015 06:17
Surr: 4-Bromofluorobenzene	97.2			70-130	%REC	1	10/18/2015 06:17
Surr: Dibromofluoromethane	94.1			70-130	%REC	1	10/18/2015 06:17
Surr: Toluene-d8	99.6			70-130	%REC	1	10/18/2015 06:17
MOISTURE							
			Method: E160.3M				Analyst: LR
Moisture	11		0.025	0.050	% of sample	1	10/15/2015 07:20

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 21-Oct-15

Client: Encana Oil and Gas (USA) Inc.
Project: Pit Sampling M23 NPM
Sample ID: 20151009-M23 (S Wall)
Collection Date: 10/9/2015 12:46 PM

Work Order: 1510714
Lab ID: 1510714-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M				Analyst: IT
DRO (C10-C28)	37		1.5	4.6	mg/Kg-dry	1	10/14/2015 16:08
Surr: 4-Terphenyl-d14	66.2			39-133	%REC	1	10/14/2015 16:08
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D				Analyst: IT
GRO (C6-C10)	U		1.4	2.9	mg/Kg-dry	1	10/13/2015 18:16
Surr: Toluene-d8	108			50-150	%REC	1	10/13/2015 18:16
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260B				Analyst: BG
Benzene	U		0.0077	0.034	mg/Kg-dry	1	10/18/2015 06:42
Ethylbenzene	U		0.0080	0.034	mg/Kg-dry	1	10/18/2015 06:42
m,p-Xylene	U		0.015	0.068	mg/Kg-dry	1	10/18/2015 06:42
o-Xylene	U		0.011	0.034	mg/Kg-dry	1	10/18/2015 06:42
Toluene	U		0.011	0.034	mg/Kg-dry	1	10/18/2015 06:42
Xylenes, Total	U		0.026	0.10	mg/Kg-dry	1	10/18/2015 06:42
Surr: 1,2-Dichloroethane-d4	98.2			70-130	%REC	1	10/18/2015 06:42
Surr: 4-Bromofluorobenzene	98.0			70-130	%REC	1	10/18/2015 06:42
Surr: Dibromofluoromethane	97.6			70-130	%REC	1	10/18/2015 06:42
Surr: Toluene-d8	100			70-130	%REC	1	10/18/2015 06:42
MOISTURE							
			Method: E160.3M				Analyst: LR
Moisture	12		0.025	0.050	% of sample	1	10/15/2015 07:20

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 21-Oct-15

Client: Encana Oil and Gas (USA) Inc.
Project: Pit Sampling M23 NPM
Sample ID: 20151009-M23 (E Wall)
Collection Date: 10/9/2015 12:54 PM

Work Order: 1510714
Lab ID: 1510714-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M				Analyst: IT
DRO (C10-C28)	56		1.5	4.6	mg/Kg-dry	1	10/14/2015 16:37
Surr: 4-Terphenyl-d14	76.1			39-133	%REC	1	10/14/2015 16:37
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D				Analyst: IT
GRO (C6-C10)	U		1.4	2.8	mg/Kg-dry	1	10/13/2015 18:42
Surr: Toluene-d8	107			50-150	%REC	1	10/13/2015 18:42
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260B				Analyst: BG
Benzene	U		0.0076	0.034	mg/Kg-dry	1	10/18/2015 07:07
Ethylbenzene	U		0.0078	0.034	mg/Kg-dry	1	10/18/2015 07:07
m,p-Xylene	U		0.015	0.067	mg/Kg-dry	1	10/18/2015 07:07
o-Xylene	U		0.011	0.034	mg/Kg-dry	1	10/18/2015 07:07
Toluene	U		0.011	0.034	mg/Kg-dry	1	10/18/2015 07:07
Xylenes, Total	U		0.026	0.10	mg/Kg-dry	1	10/18/2015 07:07
Surr: 1,2-Dichloroethane-d4	98.5			70-130	%REC	1	10/18/2015 07:07
Surr: 4-Bromofluorobenzene	96.0			70-130	%REC	1	10/18/2015 07:07
Surr: Dibromofluoromethane	95.0			70-130	%REC	1	10/18/2015 07:07
Surr: Toluene-d8	101			70-130	%REC	1	10/18/2015 07:07
MOISTURE							
			Method: E160.3M				Analyst: LR
Moisture	10		0.025	0.050	% of sample	1	10/15/2015 08:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 21-Oct-15

Client: Encana Oil and Gas (USA) Inc.
Project: Pit Sampling M23 NPM
Sample ID: 20151009-M23 (W Wall)
Collection Date: 10/9/2015 12:51 PM

Work Order: 1510714
Lab ID: 1510714-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M				Analyst: IT
DRO (C10-C28)	97		1.5	4.5	mg/Kg-dry	1	10/13/2015 21:54
Surr: 4-Terphenyl-d14	124			39-133	%REC	1	10/13/2015 21:54
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D				Analyst: IT
GRO (C6-C10)	U		1.3	2.7	mg/Kg-dry	1	10/13/2015 19:07
Surr: Toluene-d8	110			50-150	%REC	1	10/13/2015 19:07
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260B				Analyst: BG
Benzene	U		0.0073	0.032	mg/Kg-dry	1	10/18/2015 07:32
Ethylbenzene	U		0.0075	0.032	mg/Kg-dry	1	10/18/2015 07:32
m,p-Xylene	U		0.015	0.065	mg/Kg-dry	1	10/18/2015 07:32
o-Xylene	U		0.010	0.032	mg/Kg-dry	1	10/18/2015 07:32
Toluene	0.011	J	0.011	0.032	mg/Kg-dry	1	10/18/2015 07:32
Xylenes, Total	U		0.025	0.097	mg/Kg-dry	1	10/18/2015 07:32
Surr: 1,2-Dichloroethane-d4	99.5			70-130	%REC	1	10/18/2015 07:32
Surr: 4-Bromofluorobenzene	95.6			70-130	%REC	1	10/18/2015 07:32
Surr: Dibromofluoromethane	96.0			70-130	%REC	1	10/18/2015 07:32
Surr: Toluene-d8	101			70-130	%REC	1	10/18/2015 07:32
MOISTURE							
			Method: E160.3M				Analyst: LR
Moisture	7.0		0.025	0.050	% of sample	1	10/15/2015 08:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 21-Oct-15

Client: Encana Oil and Gas (USA) Inc.
Work Order: 1510714
Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: **77356A** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-77356-77356A				Units: mg/Kg		Analysis Date: 10/13/2015 07:54 PM		
Client ID:		Run ID: GC8_151013A				SeqNo: 3507695		Prep Date: 10/13/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	U	5.0								
Surr: 4-Terphenyl-d14	1.66	0	2	0	83	39-133	0			

LCS		Sample ID: DLCSS1-77356-77356A				Units: mg/Kg		Analysis Date: 10/13/2015 08:24 PM		
Client ID:		Run ID: GC8_151013A				SeqNo: 3507696		Prep Date: 10/13/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	170.2	5.0	200	0	85.1	61-109	0			
Surr: 4-Terphenyl-d14	1.469	0	2	0	73.4	39-133	0			

MS		Sample ID: 1510714-06A MS				Units: mg/Kg		Analysis Date: 10/13/2015 08:54 PM		
Client ID: 20151009-M23 (W Wall)		Run ID: GC8_151013A				SeqNo: 3507697		Prep Date: 10/13/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	102.2	4.0	161.7	89.92	7.57	48-110	0			S
Surr: 4-Terphenyl-d14	0.9556	0	1.617	0	59.1	39-133	0			

MSD		Sample ID: 1510714-06A MSD				Units: mg/Kg		Analysis Date: 10/13/2015 09:24 PM		
Client ID: 20151009-M23 (W Wall)		Run ID: GC8_151013A				SeqNo: 3507698		Prep Date: 10/13/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	46.22	4.0	161.4	89.92	-27.1	48-110	102.2	75.4	30	SR
Surr: 4-Terphenyl-d14	0.4112	0	1.614	0	25.5	39-133	0.9556	79.7	30	SR

The following samples were analyzed in this batch:	1510714-01A	1510714-02A	1510714-03A
	1510714-04A	1510714-05A	1510714-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Encana Oil and Gas (USA) Inc.

Work Order: 1510714

Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: 77513

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-77513-77513				Units: mg/Kg		Analysis Date: 10/15/2015 09:15 PM		
Client ID:		Run ID: GC8_151015A				SeqNo: 3515833		Prep Date: 10/15/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	U	5.0								
Surr: 4-Terphenyl-d14	1.735	0	2	0	86.8	39-133	0			

LCS		Sample ID: DLCSS1-77513-77513				Units: mg/Kg		Analysis Date: 10/15/2015 09:45 PM		
Client ID:		Run ID: GC8_151015A				SeqNo: 3515834		Prep Date: 10/15/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	166.9	5.0	200	0	83.5	61-109	0			
Surr: 4-Terphenyl-d14	1.134	0	2	0	56.7	39-133	0			

MS		Sample ID: 1510716-02C MS				Units: mg/Kg		Analysis Date: 10/15/2015 10:15 PM		
Client ID:		Run ID: GC8_151015A				SeqNo: 3515835		Prep Date: 10/15/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	318.6	4.1	165.1	131.4	113	48-110	0			S
Surr: 4-Terphenyl-d14	1.332	0	1.651	0	80.7	39-133	0			

MSD		Sample ID: 1510716-02C MSD				Units: mg/Kg		Analysis Date: 10/15/2015 10:45 PM		
Client ID:		Run ID: GC8_151015A				SeqNo: 3515836		Prep Date: 10/15/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	288.2	4.1	164.1	131.4	95.6	48-110	318.6	10	30	
Surr: 4-Terphenyl-d14	1.191	0	1.641	0	72.6	39-133	1.332	11.1	30	

The following samples were analyzed in this batch:

1510714-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Encana Oil and Gas (USA) Inc.
Work Order: 1510714
Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: **77383** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-77383-77383				Units: µg/Kg		Analysis Date: 10/13/2015 04:36 PM		
Client ID:		Run ID: GC9_151013B				SeqNo: 3507589		Prep Date: 10/13/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	2,500								
Surr: Toluene-d8	5181	0	5000	0	104	50-150	0			

LCS		Sample ID: LCS-77383-77383				Units: µg/Kg		Analysis Date: 10/13/2015 04:11 PM		
Client ID:		Run ID: GC9_151013B				SeqNo: 3507586		Prep Date: 10/13/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	507000	2,500	500000	0	101	70-130	0			
Surr: Toluene-d8	5319	0	5000	0	106	50-150	0			

MS		Sample ID: 1510714-06A MS				Units: µg/Kg		Analysis Date: 10/13/2015 07:32 PM		
Client ID: 20151009-M23 (W Wall)		Run ID: GC9_151013B				SeqNo: 3507611		Prep Date: 10/13/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	577300	2,500	500000	0	115	70-130	0			
Surr: Toluene-d8	5320	0	5000	0	106	50-150	0			

MSD		Sample ID: 1510714-06A MSD				Units: µg/Kg		Analysis Date: 10/13/2015 07:57 PM		
Client ID: 20151009-M23 (W Wall)		Run ID: GC9_151013B				SeqNo: 3507615		Prep Date: 10/13/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	568000	2,500	500000	0	114	70-130	577300	1.63	30	
Surr: Toluene-d8	5333	0	5000	0	107	50-150	5320	0.235	30	

The following samples were analyzed in this batch:

1510714-01A	1510714-02A	1510714-03A
1510714-04A	1510714-05A	1510714-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Encana Oil and Gas (USA) Inc.
Work Order: 1510714
Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: **77390** Instrument ID **HG1** Method: **SW7471B**

MBLK		Sample ID: MBLK-77390-77390				Units: mg/Kg		Analysis Date: 10/13/2015 11:18 PM			
Client ID:		Run ID: HG1_151013A				SeqNo: 3507172		Prep Date: 10/13/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury U 0.020

LCS		Sample ID: LCS-77390-77390				Units: mg/Kg		Analysis Date: 10/13/2015 11:20 PM		
Client ID:		Run ID: HG1_151013A				SeqNo: 3507173		Prep Date: 10/13/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1792 0.020 0.1665 0 108 80-120 0

MS		Sample ID: 1510785-03AMS				Units: mg/Kg		Analysis Date: 10/14/2015 12:13 A		
Client ID:		Run ID: HG1_151013A			SeqNo: 3507216		Prep Date: 10/13/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1191 0.012 0.1021 0.00848 108 75-125 0

MSD		Sample ID: 1510785-03AMSD				Units: mg/Kg		Analysis Date: 10/14/2015 12:16 A		
Client ID:		Run ID: HG1_151013A			SeqNo: 3507218		Prep Date: 10/13/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1224 0.013 0.1054 0.00848 108 75-125 0.1191 2.69 35

The following samples were analyzed in this batch:

1510714-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Encana Oil and Gas (USA) Inc.
Work Order: 1510714
Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: **77302** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK				Sample ID: MBLK-77302-77302			Units: mg/Kg		Analysis Date: 10/12/2015 12:52 PM		
Client ID:			Run ID: ICP2_151012A			SeqNo: 3502817		Prep Date: 10/12/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	U	0.25									
Barium	U	0.25									
Cadmium	U	0.50									
Chromium	0.01582	0.25								J	
Copper	U	0.50									
Lead	U	0.25									
Nickel	U	0.25									
Selenium	U	0.50									
Silver	U	0.25									
Zinc	U	0.50									

LCS				Sample ID: LCS-77302-77302				Units: mg/Kg			Analysis Date: 10/12/2015 12:57 PM			
Client ID:				Run ID: ICP2_151012A				SeqNo: 3502821			Prep Date: 10/12/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Arsenic	4.99	0.25	5	0	99.8	80-120	0							
Barium	5.065	0.25	5	0	101	80-120	0							
Cadmium	4.835	0.50	5	0	96.7	80-120	0							
Chromium	5.393	0.25	5	0	108	80-120	0							
Copper	5.12	0.50	5	0	102	80-120	0							
Lead	5.104	0.25	5	0	102	80-120	0							
Nickel	5.25	0.25	5	0	105	80-120	0							
Selenium	5.246	0.50	5	0	105	80-120	0							
Silver	5.151	0.25	5	0	103	80-120	0							
Zinc	5.14	0.50	5	0	103	80-120	0							

MS				Sample ID: 1510628-01AMS			Units: mg/Kg		Analysis Date: 10/12/2015 01:09 PM		
Client ID:			Run ID: ICP2_151012A			SeqNo: 3502827		Prep Date: 10/12/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	13.29	0.35	7.052	5.177	115	75-125	0				
Barium	4063	0.35	7.052	4074	-157	75-125	0			SEO	
Cadmium	6.942	0.71	7.052	0.1585	96.2	75-125	0				
Chromium	20.24	0.35	7.052	14.06	87.6	75-125	0				
Copper	24.19	0.71	7.052	19.47	66.8	75-125	0			S	
Lead	16.19	0.35	7.052	10.28	83.8	75-125	0				
Nickel	26.34	0.35	7.052	21.21	72.7	75-125	0			S	
Selenium	8.924	0.71	7.052	1.442	106	75-125	0				
Silver	7.504	0.35	7.052	0.1012	105	75-125	0				
Zinc	55.49	0.71	7.052	51.89	51.1	75-125	0			SO	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Encana Oil and Gas (USA) Inc.
Work Order: 1510714
Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: **77302**

Instrument ID **ICP2**

Method: **SW846 6010C**

MSD		Sample ID: 1510628-01AMSD				Units: mg/Kg		Analysis Date: 10/12/2015 01:15 PM		
Client ID:		Run ID: ICP2_151012A				SeqNo: 3502832		Prep Date: 10/12/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.79	0.35	7.092	5.177	107	75-125	13.29	3.84	20	
Barium	4523	0.35	7.092	4074	6340	75-125	4063	10.7	20	SEO
Cadmium	7.137	0.71	7.092	0.1585	98.4	75-125	6.942	2.77	20	
Chromium	20.22	0.35	7.092	14.06	86.9	75-125	20.24	0.0568	20	
Copper	26.81	0.71	7.092	19.47	103	75-125	24.19	10.3	20	
Lead	16.54	0.35	7.092	10.28	88.2	75-125	16.19	2.14	20	
Nickel	25.87	0.35	7.092	21.21	65.6	75-125	26.34	1.8	20	S
Selenium	9.163	0.71	7.092	1.442	109	75-125	8.924	2.64	20	
Silver	7.803	0.35	7.092	0.1012	109	75-125	7.504	3.91	20	
Zinc	54.95	0.71	7.092	51.89	43.1	75-125	55.49	0.99	20	SO

The following samples were analyzed in this batch:

1510714-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Encana Oil and Gas (USA) Inc.
Work Order: 1510714
Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: **77452** Instrument ID **ICP2** Method: **SW846 6010C**

DUP		Sample ID: 1510789-02ADUP				Units: mg/L		Analysis Date: 10/16/2015 04:54 PM		
Client ID:		Run ID: ICP2_151016A				SeqNo: 3514529		Prep Date: 10/15/2015		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	220.8	5.0	0	0	0	0-0	220.5	0.154		
Magnesium	20.92	2.0	0	0	0	0-0	20.73	0.895		
Sodium	932.4	2.0	0	0	0	0-0	929.9	0.269		

DUP		Sample ID: 1510789-02ADUP				Units: none		Analysis Date: 10/16/2015		
Client ID:		Run ID: SAR_151016A				SeqNo: 3514595		Prep Date: 10/15/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	16.07	0.010	0	0	0		16.04	0.142	50	

The following samples were analyzed in this batch: | 1510714-01A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Encana Oil and Gas (USA) Inc.

Work Order: 1510714

Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: 77373

Instrument ID SVMS5

Method: SW846 8270D

MBLK		Sample ID: SBLKS1-77373-77373				Units: µg/Kg		Analysis Date: 10/15/2015 10:59 PM		
Client ID:		Run ID: SVMS5_151015A				SeqNo: 3513652		Prep Date: 10/13/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	U	6.7								
Anthracene	U	6.7								
Benzo(a)anthracene	U	6.7								
Benzo(a)pyrene	U	6.7								
Benzo(b)fluoranthene	U	6.7								
Benzo(k)fluoranthene	U	6.7								
Chrysene	U	6.7								
Dibenzo(a,h)anthracene	U	6.7								
Fluoranthene	U	6.7								
Fluorene	U	6.7								
Indeno(1,2,3-cd)pyrene	U	6.7								
Naphthalene	U	6.7								
Pyrene	U	6.7								
Surr: 2-Fluorobiphenyl	1451	0	1667	0	87	12-100	0			
Surr: 4-Terphenyl-d14	1788	0	1667	0	107	25-137	0			
Surr: Nitrobenzene-d5	1576	0	1667	0	94.6	37-107	0			

LCS		Sample ID: SLCSS1-77373-77373				Units: µg/Kg		Analysis Date: 10/15/2015 11:21 PM		
Client ID:		Run ID: SVMS5_151015A				SeqNo: 3513653		Prep Date: 10/13/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	584.3	6.7	666.7	0	87.6	45-110	0			
Anthracene	663.7	6.7	666.7	0	99.5	55-105	0			
Benzo(a)anthracene	673.3	6.7	666.7	0	101	50-110	0			
Benzo(a)pyrene	687	6.7	666.7	0	103	50-110	0			
Benzo(b)fluoranthene	680.7	6.7	666.7	0	102	45-115	0			
Benzo(k)fluoranthene	676	6.7	666.7	0	101	45-115	0			
Chrysene	669.7	6.7	666.7	0	100	55-110	0			
Dibenzo(a,h)anthracene	624.7	6.7	666.7	0	93.7	40-125	0			
Fluoranthene	700	6.7	666.7	0	105	55-115	0			
Fluorene	620.3	6.7	666.7	0	93	50-110	0			
Indeno(1,2,3-cd)pyrene	623	6.7	666.7	0	93.4	40-120	0			
Naphthalene	522.3	6.7	666.7	0	78.3	40-105	0			
Pyrene	728	6.7	666.7	0	109	45-125	0			
Surr: 2-Fluorobiphenyl	1343	0	1667	0	80.6	12-100	0			
Surr: 4-Terphenyl-d14	1642	0	1667	0	98.5	25-137	0			
Surr: Nitrobenzene-d5	1400	0	1667	0	84	37-107	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Encana Oil and Gas (USA) Inc.
Work Order: 1510714
Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: **77373** Instrument ID **SVMS5** Method: **SW846 8270D**

MS					Sample ID: 1510598-05B MS			Units: µg/Kg		Analysis Date: 10/16/2015 12:17 PM	
Client ID:			Run ID: SVMS5_151015A			SeqNo: 3513669		Prep Date: 10/13/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	623.9	6.6	657.1	0	94.9	45-110	0				
Anthracene	702.1	6.6	657.1	0	107	55-105	0			S	
Benzo(a)anthracene	673.5	6.6	657.1	0	102	50-110	0				
Benzo(a)pyrene	691.6	6.6	657.1	0	105	50-110	0				
Benzo(b)fluoranthene	663.3	6.6	657.1	0	101	45-115	0				
Benzo(k)fluoranthene	623.2	6.6	657.1	0	94.8	45-115	0				
Chrysene	653.1	6.6	657.1	0	99.4	55-110	0				
Dibenzo(a,h)anthracene	659	6.6	657.1	0	100	40-125	0				
Fluoranthene	711.3	6.6	657.1	0	108	55-115	0				
Fluorene	676.5	6.6	657.1	0	103	50-110	0				
Indeno(1,2,3-cd)pyrene	671.5	6.6	657.1	0	102	40-120	0				
Naphthalene	557.2	6.6	657.1	0	84.8	40-105	0				
Pyrene	726.1	6.6	657.1	0	110	45-125	0				
Surr: 2-Fluorobiphenyl	1356	0	1643	0	82.6	12-100	0				
Surr: 4-Terphenyl-d14	1585	0	1643	0	96.5	25-137	0				
Surr: Nitrobenzene-d5	1542	0	1643	0	93.9	37-107	0				

MSD				Sample ID: 1510598-05B MSD				Units: µg/Kg		Analysis Date: 10/16/2015 12:40 PM	
Client ID:			Run ID: SVMS5_151015A			SeqNo: 3513670		Prep Date: 10/13/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	641.3	6.6	658.4	0	97.4	45-110	623.9	2.74	30		
Anthracene	691.9	6.6	658.4	0	105	55-105	702.1	1.45	30	S	
Benzo(a)anthracene	652.4	6.6	658.4	0	99.1	50-110	673.5	3.18	30		
Benzo(a)pyrene	681.7	6.6	658.4	0	104	50-110	691.6	1.43	30		
Benzo(b)fluoranthene	646.2	6.6	658.4	0	98.1	45-115	663.3	2.62	30		
Benzo(k)fluoranthene	619.9	6.6	658.4	0	94.1	45-115	623.2	0.543	30		
Chrysene	628.7	6.6	658.4	0	95.5	55-110	653.1	3.8	30		
Dibenzo(a,h)anthracene	636.3	6.6	658.4	0	96.6	40-125	659	3.51	30		
Fluoranthene	698.2	6.6	658.4	0	106	55-115	711.3	1.86	30		
Fluorene	676.1	6.6	658.4	0	103	50-110	676.5	0.0458	30		
Indeno(1,2,3-cd)pyrene	658.7	6.6	658.4	0	100	40-120	671.5	1.93	30		
Naphthalene	579.7	6.6	658.4	0	88	40-105	557.2	3.96	30		
Pyrene	711	6.6	658.4	0	108	45-125	726.1	2.09	30		
Surr: 2-Fluorobiphenyl	1425	0	1646	0	86.6	12-100	1356	4.95	40		
Surr: 4-Terphenyl-d14	1394	0	1646	0	84.7	25-137	1585	12.8	40		
Surr: Nitrobenzene-d5	1594	0	1646	0	96.8	37-107	1542	3.3	40		

The following samples were analyzed in this batch:

1510714-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Encana Oil and Gas (USA) Inc.
Work Order: 1510714
Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: **77381** Instrument ID **VMS6** Method: **SW8260B**

MBLK Sample ID: MBLK-77381-77381				Units: µg/Kg		Analysis Date: 10/13/2015 04:48 PM				
Client ID:		Run ID: VMS6_151013A		SeqNo: 3507884		Prep Date: 10/13/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	30								
Ethylbenzene	U	30								
m,p-Xylene	U	60								
o-Xylene	U	30								
Toluene	U	30								
Xylenes, Total	U	90								
Surr: 1,2-Dichloroethane-d4	1015	0	1000	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	980	0	1000	0	98	70-130	0			
Surr: Dibromofluoromethane	936.5	0	1000	0	93.6	70-130	0			
Surr: Toluene-d8	962.5	0	1000	0	96.2	70-130	0			

LCS Sample ID: LCS-77381-77381				Units: µg/Kg		Analysis Date: 10/13/2015 03:30 PM				
Client ID:		Run ID: VMS6_151013A		SeqNo: 3507882		Prep Date: 10/13/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	952	30	1000	0	95.2	75-125	0			
Ethylbenzene	967	30	1000	0	96.7	75-125	0			
m,p-Xylene	1962	60	2000	0	98.1	80-125	0			
o-Xylene	969	30	1000	0	96.9	75-125	0			
Toluene	954.5	30	1000	0	95.4	70-125	0			
Xylenes, Total	2931	90	3000	0	97.7	75-125	0			
Surr: 1,2-Dichloroethane-d4	1017	0	1000	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	966.5	0	1000	0	96.6	70-130	0			
Surr: Dibromofluoromethane	1016	0	1000	0	102	70-130	0			
Surr: Toluene-d8	974	0	1000	0	97.4	70-130	0			

MS Sample ID: 1510558-27A MS				Units: µg/Kg		Analysis Date: 10/17/2015 01:28 A				
Client ID:		Run ID: VMS9_151016A		SeqNo: 3515330		Prep Date: 10/13/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1144	31	1033	0	111	75-125	0			
Ethylbenzene	1188	31	1033	0	115	75-125	0			
m,p-Xylene	2469	62	2065	29.94	118	80-125	0			
o-Xylene	1197	31	1033	0	116	75-125	0			
Toluene	1192	31	1033	0	115	70-125	0			
Xylenes, Total	3666	93	3098	30	117	75-125	0			
Surr: 1,2-Dichloroethane-d4	974.2	0	1033	0	94.4	70-130	0			
Surr: 4-Bromofluorobenzene	1025	0	1033	0	99.2	70-130	0			
Surr: Dibromofluoromethane	974.7	0	1033	0	94.4	70-130	0			
Surr: Toluene-d8	1053	0	1033	0	102	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Encana Oil and Gas (USA) Inc.
Work Order: 1510714
Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: **77381** Instrument ID **VMS6** Method: **SW8260B**

MSD				Sample ID: 1510558-27A MSD			Units: µg/Kg		Analysis Date: 10/17/2015 01:54 A		
Client ID:			Run ID: VMS9_151016A			SeqNo: 3515331		Prep Date: 10/13/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1060	31	1033	0	103	75-125	1144	7.64	30		
Ethylbenzene	1106	31	1033	0	107	75-125	1188	7.2	30		
m,p-Xylene	2293	62	2065	29.94	110	80-125	2469	7.42	30		
o-Xylene	1101	31	1033	0	107	75-125	1197	8.4	30		
Toluene	1103	31	1033	0	107	70-125	1192	7.69	30		
Xylenes, Total	3393	93	3098	30	109	75-125	3666	7.74	30		
Surr: 1,2-Dichloroethane-d4	983.5	0	1033	0	95.2	70-130	974.2	0.949	30		
Surr: 4-Bromofluorobenzene	1015	0	1033	0	98.3	70-130	1025	0.962	30		
Surr: Dibromofluoromethane	987.1	0	1033	0	95.6	70-130	974.7	1.26	30		
Surr: Toluene-d8	1043	0	1033	0	101	70-130	1053	0.985	30		

The following samples were analyzed in this batch:

1510714-01A	1510714-02A	1510714-03A
1510714-04A	1510714-05A	1510714-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Encana Oil and Gas (USA) Inc.
Work Order: 1510714
Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: **77333** Instrument ID **WETCHEM** Method: **SW9045D**

LCS				Sample ID: LCS-77333-77333				Units: s.u.			Analysis Date: 10/12/2015 04:00 PM			
Client ID:				Run ID: WETCHEM_151012P				SeqNo: 3504060			Prep Date: 10/12/2015		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH	3.95	0	4	0	98.8	90-110	0			
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DUP				Sample ID: 1510614-01A DUP				Units: s.u.			Analysis Date: 10/12/2015 04:00 PM			
Client ID:				Run ID: WETCHEM_151012P				SeqNo: 3504064			Prep Date: 10/12/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

pH	6.2	0	0	0	0	0-0	6.25	0.803	20	H
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DUP				Sample ID: 1510714-01A DUP				Units: s.u.		Analysis Date: 10/12/2015 04:00 PM			
Client ID: 20151009-M23 (S-PR)				Run ID: WETCHEM_151012P				SeqNo: 3504081		Prep Date: 10/12/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			

pH	8.54	0	0	0	0	0-0	8.51	0.352	20	
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The following samples were analyzed in this batch:

1510714-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Encana Oil and Gas (USA) Inc.
Work Order: 1510714
Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: **77452** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP		Sample ID: 1510789-02A DUP				Units: mmhos/cm @25°		Analysis Date: 10/15/2015 12:15 PM		
Client ID:		Run ID: WETCHEM_151015G				SeqNo: 3511285		Prep Date: 10/15/2015		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	6.56	0.050	0	0	0		6.62	0.91	50	

The following samples were analyzed in this batch:

1510714-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Encana Oil and Gas (USA) Inc.

Work Order: 1510714

Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: **77485**

Instrument ID **WETCHEM**

Method: **SW7196A**

MBLK		Sample ID: MBLK-77485-77485				Units: mg/Kg		Analysis Date: 10/14/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_151014X		SeqNo: 3509167		Prep Date: 10/13/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 1.0

LCS		Sample ID: LCS-77485-77485				Units: mg/Kg		Analysis Date: 10/14/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_151014X		SeqNo: 3509166		Prep Date: 10/13/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.92 1.0 5 0 98.4 80-120 0

MS		Sample ID: 1510504-01A MS				Units: mg/Kg		Analysis Date: 10/14/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_151014X		SeqNo: 3509153		Prep Date: 10/13/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.9327 0.96 4.808 0.466 9.71 75-125 0 JS

MS		Sample ID: 1510504-01A MSI				Units: mg/Kg		Analysis Date: 10/14/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_151014X		SeqNo: 3509155		Prep Date: 10/13/2015		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2439 96 2460 0.466 99.1 75-125 0

MSD		Sample ID: 1510504-01A MSD				Units: mg/Kg		Analysis Date: 10/14/2015 04:00 PM		
Client ID:		Run ID: WETCHEM_151014X		SeqNo: 3509154		Prep Date: 10/13/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.427 0.97 4.854 0.466 19.8 75-125 0.9327 41.9 20 SR

The following samples were analyzed in this batch:

1510714-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Encana Oil and Gas (USA) Inc.
Work Order: 1510714
Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: **R173951** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R173951				Units: % of sample		Analysis Date: 10/15/2015 07:20 A		
Client ID:		Run ID: MOIST_151015A		SeqNo: 3513197		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R173951				Units: % of sample		Analysis Date: 10/15/2015 07:20 A		
Client ID:		Run ID: MOIST_151015A		SeqNo: 3513196		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1510664-12A DUP				Units: % of sample		Analysis Date: 10/15/2015 07:20 A		
Client ID:		Run ID: MOIST_151015A		SeqNo: 3513183		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 22.19 0.050 0 0 0 22.87 3.02 20

DUP		Sample ID: 1510710-01A DUP				Units: % of sample		Analysis Date: 10/15/2015 07:20 A		
Client ID:		Run ID: MOIST_151015A		SeqNo: 3513186		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 6.51 0.050 0 0 0 6.42 1.39 20

The following samples were analyzed in this batch:

1510714-01A	1510714-02A	1510714-03A
1510714-04A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Encana Oil and Gas (USA) Inc.
Work Order: 1510714
Project: Pit Sampling M23 NPM

QC BATCH REPORT

Batch ID: **R173955** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R173955				Units: % of sample		Analysis Date: 10/15/2015 08:02 A		
Client ID:		Run ID: MOIST_151015B				SeqNo: 3513328		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R173955				Units: % of sample		Analysis Date: 10/15/2015 08:02 A		
Client ID:		Run ID: MOIST_151015B				SeqNo: 3513326		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1510558-25A DUP				Units: % of sample		Analysis Date: 10/15/2015 08:02 A		
Client ID:		Run ID: MOIST_151015B				SeqNo: 3513306		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 3.81 0.050 0 0 0 3.74 1.85 20

DUP		Sample ID: 1510712-01A DUP				Units: % of sample		Analysis Date: 10/15/2015 08:02 A		
Client ID:		Run ID: MOIST_151015B				SeqNo: 3513316		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 25.72 0.050 0 0 0 28.12 8.92 20

The following samples were analyzed in this batch:

1510714-05A 1510714-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



CHAIN OF CUSTODY

Failure to complete all section of this form may delay analysis.

CDC number (for client tracking)

CDC number (for client tracking)
1510714

Page 1 of 1

[illegible]

Note: (a) DW (Drinking water), SW (Surface water), GW (Ground water), WW (Waste water), S (Soil), SL (Sludge), SE (Sediment), OS (Other solid material)

4.004

ORIGIN ID: RLA (616) 298-1033
 NICK MARTINEZ
 ALS ENVIRONMENTAL PARACHUTE
 PARACHUTE SERVICE CENTER
 127 EAST 1ST ST
 PARACHUTE, CO 81635
 UNITED STATES US

SHIP DATE: 09OCT15
 ACTWGT: 21.00 LB
 CAD: 2254840/NET3670
 DIMS: 10x16x14 IN
 BILL SENDER

TO **SAMPLE RECEIVING**
ALS ENVIRONMENTAL HOLLAND LAB
3352 128TH AVE

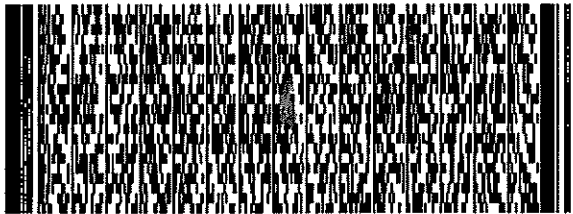
HOLLAND MI 49424

(616) 399-6070

REF: 100915-1

PO: PARACHUTE

DEPT:



FedEx
Express



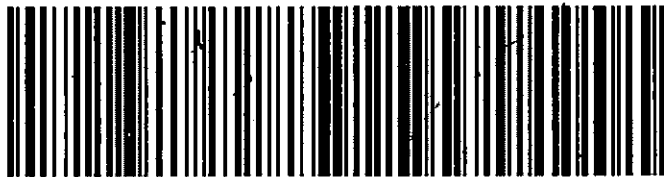
REL#
3785346

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK#
0201 **7747 0524 4625**

X0 HLMA

49424
MI-US GRR



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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Sample Receipt Checklist

Client Name: ENCANA2

Date/Time Received: 10-Oct-15 10:00

Work Order: 1510714

Received by: DS

Checklist completed by Diane Shaw 12-Oct-15
eSignature Date

Reviewed by: Chad Whelton 12-Oct-15
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.0/4.0 c</u> <u>SR2</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>10/12/2015 9:08:16 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: