

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

OIL CONS. DIV DIST. 3

FEB 16 2016

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Encana Oil & Gas (USA) Inc.	Contact	Warren Scott
Address	6584 East Main Street, Farmington, NM 87402	Telephone No.	505-599-2407
Facility Name	Lybrook 002R	Facility Type	Production/tank battery
Surface Owner	BLM	Mineral Owner	Federal
		API No.	3003925153

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	22	24 N	7 W	1695	South	820	East	Rio Arriba

Latitude 36.295826 Longitude -107.5566177

NATURE OF RELEASE

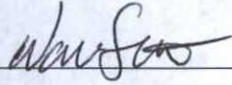
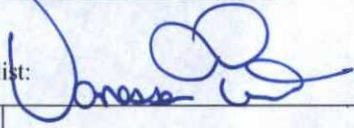
Type of Release	Crude Oil	Volume of Release	36 bbls	Volume Recovered	36 bbls
Source of Release	Tank overflow	Date and Hour of Occurrence	6/20/2015 4:00 pm	Date and Hour of Discovery	6/20/2015 4:00 pm
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Reported to BLM (Shari Ketcham) and NMOCD (Cory Smith & Jonathan Kelley) on 6/21/2015.			
By Whom?	Tucker Smith (Encana Oil & Gas)	Date and Hour	6/21/2015		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA			

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
See attached response letter and remediation plan.

Describe Area Affected and Cleanup Action Taken.*
See attached report.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Warren Scott		Approved by Environmental Specialist: 	
Title: Field Safety Manager		Approval Date: 2/23/2016	Expiration Date:
E-mail Address: warren.scott@encana.com		Conditions of Approval: -	Attached <input type="checkbox"/>
Date:	Phone: 505-599-2407		

* Attach Additional Sheets If Necessary

NUF1605434357

(115)



OIL CONS. DIV DIST. 3

FEB 16 2016

SPILL ASSESSMENT AND CLOSURE REPORT

LOCATION:

**ENCANA OIL & GAS
LYBROOK 002R WELL SITE
SECTION 22, TOWNSHIP 24 NORTH, RANGE 7 WEST
RIO ARriba COUNTY, NEW MEXICO**

CONTRACTED BY:

**ENCANA OIL & GAS
6584 EAST MAIN STREET
FARMINGTON, NEW MEXICO 87402**

**PROJECT NUMBER 11195-0193
JULY 2015**

**ENCANA OIL & GAS
SPILL ASSESSMENT AND CLOSURE REPORT
LYBROOK 002R WELL SITE
SECTION 22, TOWNSHIP 24 NORTH, RANGE 7 WEST
RIO ARriba COUNTY, NEW MEXICO**

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INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by Encana Oil & Gas to provide spill assessment and confirmation sampling services for a release of oil from the Lybrook 002R Well Site located in Section 22, Township 24 North, Range 7 West, Rio Arriba County, New Mexico; see enclosed **Figure 1, Vicinity Map**. On June 20, 2015, approximately 36 barrels of oil were released from an overflow of a tank. The release was confined to the earthen berm secondary containment. Activities included sample collection and analysis, documentation and reporting.

ACTIVITIES PERFORMED

Envirotech, Inc. was contacted on July 8, 2015, with a request to respond to a release that occurred at the above referenced location. Upon arrival, a brief site assessment was conducted. Due to the distance to surface water being between 200 and 1000 feet from the well site, a depth to groundwater between 50 and 100 feet below ground surface (BGS), and the well site is not within a well head protection area, the regulatory standards for the site were determined to be 100 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

First Sampling Event

On July 9, 2015, Envirotech personnel arrived at the site. Prior to Envirotech's arrival the contaminated area was excavated by Kelly Oilfield Services to the extents of approximately 20 feet by 45 feet by two (2) to three (3) feet below ground surface (BGS). Two (2) composite samples were collected from the release area. One (1) sample (*Bottom*) was collected from the bottom of the excavation and one (1) sample (*Walls*) was collected from the four (4) walls of the excavation; see enclosed **Appendix A, Field Notes**. The samples were screened in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). Both samples returned results above the regulatory standard for TPH; see enclosed **Appendix A, Field Notes**. The *Bottom* sample returned a result above the regulatory standard for organic vapors, but the *Walls* sample returned a result below the regulatory standard for organic vapors. Based on the TPH results Envirotech recommends further excavation of the contaminated area and resampling.

Second Sampling Event

On July 22, 2015, Envirotech personnel returned to the above mentioned site. Upon Envirotech personnel's return Kelley Oilfield Services had excavated the contaminated area to the extents of approximately 45 feet by 90 feet by four (4) feet BGS; see enclosed **Appendix C, Site Photography**. Five (5) composite soil samples were collected: *W. Wall*, *N. Wall*, *E. Wall*, *S. Wall*, and *Bottom*. The five (5) samples were screened in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). All the samples returned a result below the regulatory standard for organic vapor; see enclosed **Appendix A, Field Notes**. Two (2) of the five samples, *E. Wall* and *S. Wall*, returned a result above the

regulatory standard for TPH; see enclosed **Appendix A, Field Notes**. All five (5) samples were placed into separate four (4) ounce glass jars, capped head space free, and transported on ice under chain of custody to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015D and for benzene and total BTEX using USEPA Method 8021B. All the samples returned results below the regulatory standard for benzene and total BTEX. Two (2) of the five (5) samples, *E. Wall* and *S. Wall*, returned results above the regulatory standard for TPH; see enclosed **Table 1, Summary of Analytical Results** and **Appendix B, Analytical Results**. Based on the results it is Envirotech's recommendation to further excavate the contaminated area and resample.

Third Sampling Event

Envirotech personnel returned to the site on August 14, 2015. Upon Envirotech personnel's return on August 14, 2015, Kelley Oilfield Services had excavated the contaminated area to the extents of approximately 48 feet by 90 feet by four (4) feet BGS. Two composite soil samples were collected, *E. Wall* and *S. Wall*, both samples were screen in the field for TPH using USEPA Method 418.1 and for organic vapor using a PID. Both samples returned a result below the regulatory standard for TPH and organic vapor; see enclosed **Appendix A Field Notes**. The samples were then placed into separate four (4) ounce glass jars, capped head space free, and transported on ice under chain of custody to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015D and for benzene and total BTEX using USEPA Method 8021B. Both samples returned a result below the regulatory standard for benzene and total BTEX, however one of the samples, *S. Wall*, returned a result above the regulatory standard for TPH; see enclosed **Table 1, Summary of Analytical Results** and **Appendix B, Analytical Results**. Based on the results it is Envirotech's recommendation to further excavate the contaminated area and resampling.

Fourth Sampling Event

On September 1, 2015, Tucker Smith of Encana Oil & Gas dropped off 11 soil samples and requested Envirotech screen them for TPH using USEPA Method 418.1. Envirotech screened 10 of the 11 samples: *South Wall #1, South Wall #2, South Wall #3, South Wall East, South Wall #5, South Wall #6, South Wall #7, South Wall #8, South Wall #9, South Wall West*; see enclosed **Appendix A, Field Notes** and **Table 1, Summary of Analytical Results**.

Fifth Sampling Event

On September 13, 2015, Tucker Smith of Encana Oil & Gas dropped off three (3) soil samples: *S. Wall East, S. Wall Center, S. Wall West*, and requested Envirotech screen them for TPH using USEPA Method 418.1. Envirotech screened the three (3) samples; see enclosed **Appendix A, Field Notes** and **Table 1, Summary of Analytical Results**.

Sixth Sampling Event

On November 10, 2015, Envirotech personnel returned to the site. Upon Envirotech personnel's return on November 10, 2015, Kelley Oilfield Services had excavated the contaminated area to the extents of approximately 90 feet by 90 feet by four (4) feet BGS. Envirotech personnel divided each of the four (4) walls and the bottom into two (2) sections. A total of 10 composite

soil samples were collected one from each section: *North Wall E., North Wall W., West Wall N., West Wall S., South Wall W., South Wall E., East Wall S., East Wall N., N. Bottom, S. Bottom*, all the samples were screened in the field for organic vapor using a PID. All 10 samples returned a result below the regulatory standard for organic vapor; see enclosed **Appendix A, Field Notes**. Each of the samples were placed into a separate four (4) ounce glass jar, capped head space free, and transferred on ice under chain of custody to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015D and for benzene and total BTEX using USEPA Method 8021B. All the samples returned a result below the regulatory standard for all constituents analyzed except for the *West Wall S.* sample; see enclosed **Table 1, Summary of Analytical Results** and **Appendix B, Analytical Results**. Based on the analytical results Envirotech recommends excavating the east wall south section and resampling.

Seventh Sampling Event

On December 14, 2015, Envirotech personnel returned to the site. Upon Envirotech personnel's return on December 14, 2015, Kelley Oilfield Services excavated the west wall south section an additional two (2) feet. One (1) composite soil sample was collected and screen in the field for TPH using USEPA Method 418.1 and for organic vapor using a PID. The sample returned a result below the regulatory standard for organic vapor, but the result for TPH was slightly above the regulatory standard; see enclosed **Appendix A, Field Notes**. The sample was placed into a four (4) ounce glass jar, capped head space free, and transported on ice under chain of custody to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015D and for benzene and total BTEX using USEPA Method 8021B. The sample returned a result below the regulatory standard for all constituents analyzed. Based on the results Envirotech recommends *No Further Action* in regards to this incident.

Approximately 1,496 cubic yards of oil contaminated soil was transported by Kelly's Oil Field Services to Envirotech's New Mexico Oil and Gas Division (NMOCD) permitted soil remediation facility Landfarm 2, located near Hilltop, New Mexico; see enclosed Appendix D, Bill of Ladings. Approximately 1,334 cubic yards of clean fill soil was transported by Kelly's Oil Field Services from Envirotech's landfarm to backfill and re-contour the excavated area to pre-incident conditions; see enclosed Appendix D, Bill of Ladings.

SUMMARY AND CONCLUSIONS

Spill assessment and confirmation sampling activities were performed for a release at the Lybrook 002R well site located in Section 22, Township 24 North, Range 7 West, Rio Arriba County, New Mexico. Contaminated soil was transported to Envirotech's NMOCD permitted soil remediation facility. Envirotech, Inc. recommends that *No Further Action* is required in regards to this incident.

STATEMENT OF LIMITATIONS

Envirotech, Inc. has completed spill assessment and confirmation sampling activities for a release at the Lybrook 002R well site located in Section 22, Township 24 North, Range 7 West,

Rio Arriba County, New Mexico. The work and services provided by Envirotech, Inc. were in accordance with the New Mexico Oil Conservation Division standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of the incident.

The undersigned has conducted this service at the above referenced site; this work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry, and hydrogeology.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,

ENVIROTECH, INC.



Isaac Garcia
Environmental Field Technician
igarcia@envirotech-inc.com

Reviewed by:

 for:

Felipe Aragon, CES
Environmental Field Coordinator
faragon@envirotech-inc.com

FIGURES

Figure 1, Vicinity Map

Figure 2, Site Map



LEGEND

NE	North Wall East half of wall Sample
NW	North Wall West half of wall Sample
WN	West Wall North half of wall Sample
WS	West Wall South half of wall Sample
SW	South Wall West half of wall Sample
SE	South Wall East half of wall Sample
ES	East Wall South half of wall Sample
EN	East Wall North half of wall Sample
NB	North Bottom Sample
SB	South Bottom Sample
●	Gas Pipeline Flagging

SITE MAP

Encana Oil and Gas

LyBrook 002R

SECTION 22, TWP 24 NORTH, RANGE 7 WEST
RIO ARRIBA COUNTY, NEW MEXICO

SCALE: NTS

FIGURE NO. 1

REV

PROJECT NO: 11195-0193

REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	IG	11/25/15	BASE DRWN IG 11/25/15



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

TABLES

Table 1, Summary of Analytical Results

Table 1, Summary of Analytical Results

Encana Oil Gas USA

LyBrook 002R

Confirmation Sampling

Project Number 11195-0193

Sample Description	Sample Number	Organic Vapor (ppm)	USEPA Method 418.1 TPH (mg/kg)	USEPA Method 8015 TPH (mg/kg)	USEPA Method 8021	
					Benzene (mg/kg)	Total BTEX (mg/kg)
New Mexico Oil Conservation Division standards	NA	100	100	100	10	50
Bottom	1	201.1	3,928	NS	NS	NS
Walls	2	69.6	39,996	NS	NS	NS
W. Wall	1	4.7	20	53	NS	NS
N. Wall	2	2.4	4	ND	NS	NS
E. Wall	3	3.6	204	238	NS	NS
S. Wall	4	3.9	108	124	NS	NS
Bottom	5	2.2	8	ND	NS	NS
E. Wall	1	0.5	12	ND	ND	ND
S. Wall	2	1.5	76	224	ND	ND
South Wall #1	1	NS	496	NS	NS	NS
South Wall #2	2	NS	336	NS	NS	NS
South Wall #3	3	NS	40	NS	NS	NS
South Wall East	4	NS	0	NS	NS	NS
South Wall #5	5	NS	24	NS	NS	NS
South Wall #6	6	NS	84	NS	NS	NS
South Wall #7	7	NS	1,672	NS	NS	NS
South Wall #8	8	NS	608	NS	NS	NS
South Wall #9	9	NS	96	NS	NS	NS
South Wall West	10	NS	800	NS	NS	NS
S.Wall East	1	NS	168	NS	NS	NS
S.Wall Center	2	NS	80	NS	NS	NS
S. Wall West	3	NS	644	NS	NS	NS
North Wall E.	1	0	NS	ND	ND	ND
North Wall W.	2	0	NS	ND	ND	ND
West Wall N.	3	0	NS	ND	ND	ND
West Wall S.	4	0	NS	233	ND	ND
South Wall W.	5	0	NS	ND	ND	ND
South Wall E.	6	0	NS	ND	ND	ND
East Wall S.	7	0	NS	ND	ND	ND
East Wall N.	8	0	NS	ND	ND	ND
N. Bottom	9	0	NS	ND	ND	ND
S. Bottom	10	0	NS	81.1	ND	ND
West Wall S.	1	0	140	ND	ND	ND

APPENDIX A

Field Notes

Client: <u>Encana</u>	 envirotech <small>(505) 632-0615 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401</small>	Project No: <u>1195-0193</u>
Environmental Specialist: <u>S. Leon</u>		COC No:

Field Report: Spill Closure Verification

Start Date: <u>7/9/15</u>	NMOCD	Ranking: <u>20</u>	WH Protection Area: <u>NO</u>
Finish Date: <u>7/9/15</u>	NMOCD TPH Closure Std: <u>100</u>	Distance to SW: <u>309</u>	
Page #: <u>1</u> of <u>1</u>	PPM: <u>100</u>	Depth to GW: <u>50-100</u>	

LOCATION:	Name: <u>Hybrook</u>	Well #: <u>002 R</u>	API#
	County: <u>Rio Arriba</u>	State: <u>New Mexico</u>	
Cause of Release:	Material Released:	Amt. Released:	
QUAD/UNIT:	SEC: <u>22</u>	TWP: <u>24 N</u>	RNG: <u>7W</u> PM:
Wellhead Lat/Long:	Land Jurisdiction: <u>BLM</u>		

SOIL SAMPLING and EXCAVATION NOTES:

Collected 1 5-point composite from the bottom of the excavation
and 1 4-point composite from the walls
Screened in the field only

Spill Located Approximately: _____ FT.	FROM _____
Excavation Approx: _____ FT. X _____ FT. X _____ FT.	Cubic Yardage: _____
Disposal Facility: _____	Remediation Method: _____
Land Use: _____	Lease: _____ Land Owner: _____

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
<u>500 SLD</u>	<u>10:45</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>490</u>	<u> </u>
<u>Bottom</u>	<u>10:55</u>	<u>1</u>	<u>5g</u>	<u>20ml</u>	<u>x4</u>	<u>982</u>	<u>3928</u>
<u>Walls</u>	<u>11:30</u>	<u>2</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>9999</u>	<u>39996</u>

OVM Results		Lab Testing			
Sample ID	Field Headspace PID (ppm)	Sample ID	To Lab Y/N	Analysis Type	Time
<u>1</u>	<u>206.1</u>				
<u>2</u>	<u>69.6</u>				

CLIENT: <u>Ercana</u>	 envirotech <small>(505) 632-0615 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401</small>	Envmtl. Spclst: _____
CLIENT/JOB #: <u>11195-0193</u>		C.O.C. No: _____
START DATE: <u>7/22/15</u>		LAT _____
FINISH DATE: <u>7/22/15</u>		LONG _____
Page # <u>1</u> of <u>1</u>		

Field Report: Spill Closure Verification

NMOCD Ranking: <u>20</u>	Depth to GW: <u>50-100</u>	WH Protection Area: <input checked="" type="checkbox"/> NO <input type="checkbox"/> Yes
NMOCD TPH Closure Std.: <u>100</u>	Distance to SW: <u>309</u>	
LOCATION: Name: <u>Ly Brook 002R</u> Well #: _____ API: _____		
County: <u>Rio Arriba</u> State: <u>NM</u>		
Cause of Release: <u>Spill</u> Material Released: _____ Amt. Released: _____		
QUAD/UNIT: _____	SEC: <u>22</u>	TWP: <u>24N</u> RNG: <u>7W</u> PM: _____
Wellhead Lat/Long: _____	Land Jurisdiction: _____	QTR Footage: _____
Spill Located Approximately: _____ FT. FROM _____		
Excavation Approx: <u>45</u> FT. X <u>90</u> FT. X <u>4</u> FT. Cubic Yardage: _____		
Disposal Facility: _____ Remediation Method: <u>Excavation</u>		
Land Use: _____ Lease: _____ Land Owner: _____		

FIELD 418.1 ANALYSIS

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
<u>200 Standard</u>	<u>11:43</u>					<u>200</u>	
<u>W. Wall</u>	<u>12:04</u>		<u>5</u>	<u>20</u>	<u>4</u>	<u>5</u>	<u>20</u>
<u>N. Wall</u>	<u>12:07</u>		<u>5</u>	<u>20</u>	<u>4</u>	<u>1</u>	<u>4</u>
<u>E. Wall</u>	<u>12:10</u>		<u>5</u>	<u>20</u>	<u>4</u>	<u>52</u>	<u>208</u>
<u>S. Wall</u>	<u>12:13</u>		<u>5</u>	<u>20</u>	<u>4</u>	<u>27</u>	<u>108</u>
<u>Bottom</u>	<u>12:15</u>		<u>5</u>	<u>20</u>	<u>4</u>	<u>2</u>	<u>8</u>

OVM Results

Lab Testing

Sample ID	Field Headspace PID (ppm)	Sample ID	Field Headspace PID (ppm)	Sample ID	Analysis Type	Time
<u>W. Wall</u>	<u>4.7</u>					
<u>N. Wall</u>	<u>2.4</u>					
<u>E. Wall</u>	<u>3.6</u>					
<u>S. Wall</u>	<u>3.9</u>					
<u>Bottom</u>	<u>2.2</u>					

CLIENT: <u>Encana</u>	 envirotech <small>(505) 632-0615 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401</small>	Envmtl. Spclst: _____
CLIENT/JOB #: <u>11195-0193</u>		C.O.C. No: _____
START DATE: <u>8/14/15</u>		LAT _____
FINISH DATE: <u>8/14/15</u>		LONG _____
Page # <u>1 of 1</u>		

Field Report: Spill Closure Verification

NMOCD Ranking: <u>20</u>	Depth to GW: <u>50-100</u>	WH Protection Area: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
NMOCD TPH Closure Std.: <u>100</u>	Distance to SW: <u>309</u>	
LOCATION: Name: <u>Ly Brook 002 R</u> Well #: _____ API: _____		
County: <u>Rio Arriba</u> State: <u>NM</u>		
Cause of Release: <u>Spill</u> Material Released: _____ Amt. Released: _____		
QUAD/UNIT: _____	SEC: <u>22</u>	TWP: <u>24 N</u> RNG: <u>7 W</u> PM: _____
Wellhead Lat/Long: _____	Land Jurisdiction: _____	QTR Footage: _____
Spill Located Approximately: _____ FT. FROM _____		
Excavation Approx: <u>48</u> FT. X <u>90</u> FT. X <u>4</u> FT. Cubic Yardage: _____		
Disposal Facility: _____ Remediation Method: <u>Excavation</u>		
Land Use: _____ Lease: _____ Land Owner: _____		

FIELD 418.1 ANALYSIS

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
<u>200 std</u>	<u>13:03</u>	<u>Standard</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>208</u>	
<u>E. Wall</u>	<u>13:14</u>		<u>5</u>	<u>20</u>	<u>4</u>	<u>3</u>	<u>12</u>
<u>S. Wall</u>	<u>13:21</u>		<u>5</u>	<u>20</u>	<u>4</u>	<u>19</u>	<u>76</u>

OVM Results				Lab Testing		
Sample ID	Field Headspace PID (ppm)	Sample ID	Field Headspace PID (ppm)	Sample ID	Analysis Type	Time
	<u>S. Wall</u>	<u>1.5</u>				
	<u>E. Wall</u>	<u>0.5</u>				

CLIENT: <u>Encana</u>	 envirotech <small>(505) 632-0615 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401</small>	Envmtl. Spclst: <u>F. Burns</u>
CLIENT/JOB #: <u>11195-0193</u>		C.O.C. No: <u>N/A</u>
START DATE: <u>9-1-15</u>		LAT: <u>36.29586135</u>
FINISH DATE: _____		LONG: <u>-107.5566462</u>
Page #: <u>1</u> of <u>2</u>		

Field Report: Spill Closure Verification

NMOCD Ranking: _____	Depth to GW: _____	WH Protection Area: No Yes	
NMOCD TPH Closure Std.: _____	Distance to SW: _____		
LOCATION: Name: <u>Lybrook</u> Well #: <u>002R</u> API: _____ County: <u>Rio Arriba</u> State: <u>Nm</u>			
Cause of Release: _____		Material Released: _____	Amt. Released: _____
QUAD/UNIT: _____	SEC: <u>22</u>	TWP: <u>24N</u>	RNG: <u>7W</u> PM: _____
Wellhead Lat/Long: <u>36.29586135</u> <u>-107.5566462</u>		Land Jurisdiction: _____	QTR Footage: _____
Spill Located Approximately: _____ FT.		FROM _____	
Excavation Approx: _____ FT.	X _____ FT.	X _____ FT.	Cubic Yardage: _____
Disposal Facility: _____		Remediation Method: _____	
Land Use: _____		Lease: _____	Land Owner: _____

FIELD 418.1 ANALYSIS

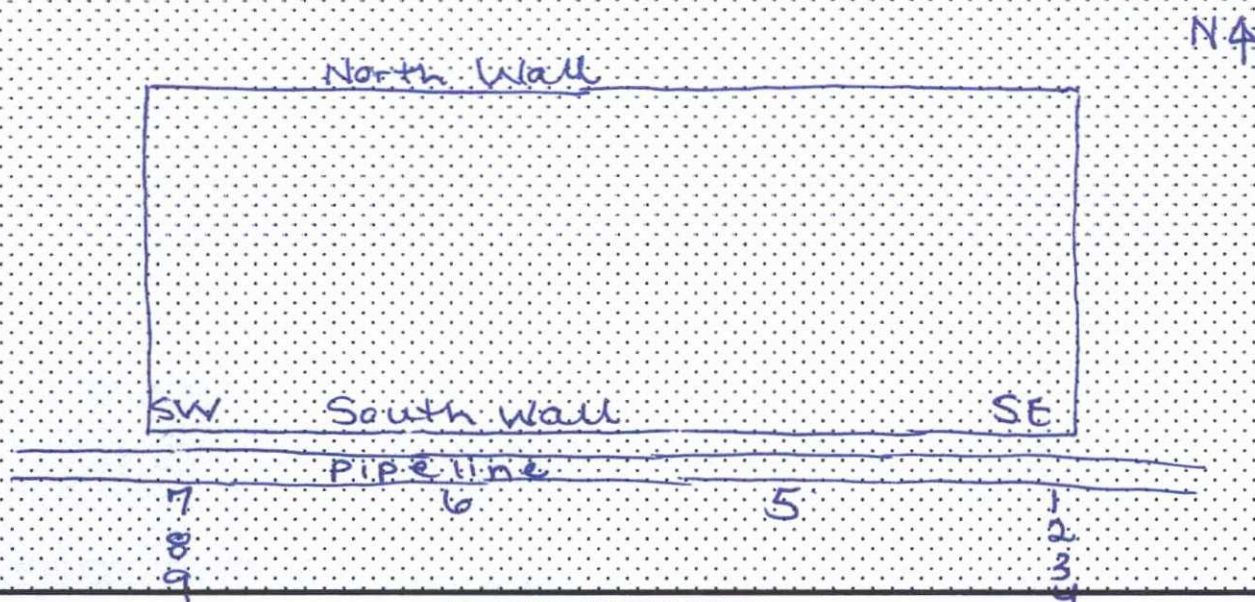
SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
South wall #1	13:00	South wall #1	5	20	4	124	496
South wall #2		South wall #2				84	336
South wall #3		South wall #3				10	40
South wall East		South wall East				0	0
South wall #5		South wall #5				6	24
South wall #6		South wall #6				21	84
South wall #7		South wall #7				418	1672
South wall #8		South wall #8				152	608
South wall #9		South wall #9				24	96
South wall West		┴				South wall West	┴

OVM Results

Lab Testing

Sample ID	Field Headspace PID (ppm)	Sample ID	Field Headspace PID (ppm)	Sample ID	Analysis Type	Time
<u>N/A</u>				<u>N/A</u>		

SPILL PERIMETER: Draw a schematic of the spill site. Attach photos and other diagrams as needed.



EXCAVATION PROFILE:

NOTES:

Include number of samples and borings taken, and screening types completed.

Describe spill in narrative format including amount, source and type of product.

11 samples were taken. 1-3, 5-9, SW, and SE were
ran for TPH using method 418.1.

Tucker Smith collected samples and transported
them to Envirotech for analysis.

WO #:

Who Ordered/Site Rep:

Client: <u>Enron</u> Environmental Specialist:	 envirotech <small>(505) 632-0615 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401</small>	Project No: <u>11195-0193</u> COC No:
---	---	--

Field Report: Spill Closure Verification

Start Date:	<u>9-13-15</u>	NMOCD	Ranking:	WH Protection Area:	
Finish Date:		NMOCD TPH Closure Std:	<u>100</u>	Distance to SW:	
Page #:	of	PPM:		Depth to GW:	
LOCATION:					
Name:	<u>Lybrook</u>	Well #:	<u>0022</u>	API#	
County:		State:			
Cause of Release:		Material Released:		Amt. Released:	
QUAD/UNIT:	SEC:	TWP:	RNG:	PM:	
Wellhead Lat/Long:		Land Jurisdiction:			

SOIL SAMPLING and EXCAVATION NOTES:

Tucker saw th dropped off sample at office

Spill Located Approximately:	FT.	FROM	
Excavation Approx:	FT. X	FT. X	Cubic Yardage:
Disposal Facility:		Remediation Method:	
Land Use:	Lease:	Land Owner:	

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
S. Wall - East	10:11	1	5	20	4	42	168
S. Wall - Center	10:26	2	5	20	4	20	80
S. Wall - West	10:37	3	5	20	4	161	644
Standard	10:01					209	

OVM Results		Lab Testing			
Sample ID	Field Headspace PID (ppm)	Sample ID	To Lab Y/N	Analysis Type	Time

Encana Ly Brook 001R

11/10/15

North wall E. - 0.0

East wall S. - 0.0

North wall W. - 0.0

East wall N. - 0.0

West wall N. - 0.0

N. Bottom - 0.0

West wall S. - 0.0

S. Bottom - 0.0

South wall W. - 0.0

South wall E. - 0.0

Round

90'

4'
Depth

Pipe Line (lagging)

90'

PST

PHN
mark

Encana
Ly Brook 002 N.

12/14/15

11:04 200 std 199

TPH

sum

Westwall S. 11:15 $35 \times 4 = 140$

0.0

ANALYTICAL REPORT

August 04, 2015

EnviroTech- NM

Sample Delivery Group: L780179
Samples Received: 08/01/2015
Project Number: 11195-0193
Description: Lybrook 002R

Report To: Felipe Aragon and Greg Crabtree
5796 US. Highway 64
Farmington, NM 87401

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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ONE LAB. NATIONWIDE.



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¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



W. WALL L780179-01 Solid

Collected by
Isaac Garcia

Collected date/time
07/22/15 10:58

Received date/time
08/01/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi-Volatile Organic Compounds (GC) by Method 3546/DRO	WG806321	5	08/03/15 19:13	08/04/15 10:50	CLG
Total Solids by Method 2540 G-2011	WG806614	1	08/03/15 10:34	08/04/15 08:50	MEL
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG806511	5	08/02/15 10:13	08/04/15 11:28	KLO

Cp

Tc

Ss

N. WALL L780179-02 Solid

Collected by
Isaac Garcia

Collected date/time
07/22/15 11:05

Received date/time
08/01/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi-Volatile Organic Compounds (GC) by Method 3546/DRO	WG806321	1	08/03/15 19:13	08/04/15 10:16	CLG
Total Solids by Method 2540 G-2011	WG806614	1	08/03/15 10:34	08/04/15 08:51	MEL
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG806511	5	08/02/15 10:13	08/04/15 13:20	KLO

Cn

Sr

Qc

Gl

E. WALL L780179-03 Solid

Collected by
Isaac Garcia

Collected date/time
07/22/15 11:14

Received date/time
08/01/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi-Volatile Organic Compounds (GC) by Method 3546/DRO	WG806321	5	08/03/15 19:13	08/04/15 10:39	CLG
Total Solids by Method 2540 G-2011	WG806614	1	08/03/15 10:34	08/04/15 08:51	MEL
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG806511	5	08/02/15 10:13	08/04/15 12:13	KLO

Al

Sc

S. WALL L780179-04 Solid

Collected by
Isaac Garcia

Collected date/time
07/22/15 11:21

Received date/time
08/01/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi-Volatile Organic Compounds (GC) by Method 3546/DRO	WG806321	10	08/03/15 19:13	08/04/15 11:01	CLG
Total Solids by Method 2540 G-2011	WG806614	1	08/03/15 10:34	08/04/15 08:51	MEL
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG806511	5	08/02/15 10:13	08/04/15 12:35	KLO

BOTTOM COMPOSITE L780179-05 Solid

Collected by
Isaac Garcia

Collected date/time
07/22/15 11:24

Received date/time
08/01/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi-Volatile Organic Compounds (GC) by Method 3546/DRO	WG806321	5	08/03/15 19:13	08/04/15 10:27	CLG
Total Solids by Method 2540 G-2011	WG806614	1	08/03/15 10:34	08/04/15 08:51	MEL
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG806511	5	08/02/15 10:13	08/04/15 12:58	KLO

CASE NARRATIVE

ONE LAB. NATIONWIDE.



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

W. WALL

Collected date/time: 07/22/15 10:58

SAMPLE RESULTS - 01

L780179

ONE LAB. NATIONWIDE



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.7		1	08/04/2015 08:50	WG806614

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.551	5	08/04/2015 11:28	WG806511
(S) o,a,a-Trifluorotoluene(FID)	92.0		59.0-128		08/04/2015 11:28	WG806511

Semi-Volatile Organic Compounds (GC) by Method 3546/DRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	52.9		22.0	5	08/04/2015 10:50	WG806321
(S) o-Terphenyl	87.7		50.0-150		08/04/2015 10:50	WG806321

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

N. WALL

Collected date/time: 07/22/15 11:05

SAMPLE RESULTS - 02

L780179

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.8		1	08/04/2015 08:51	WG806614

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) Low Fraction	ND		0.643	5	08/04/2015 13:20	WG806511
(S) o,a,a-Trifluorotoluene(FID)	90.7		59.0-128		08/04/2015 13:20	WG806511

Semi-Volatile Organic Compounds (GC) by Method 3546/DRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) High Fraction	ND		5.14	1	08/04/2015 10:16	WG806321
(S) o-Terphenyl	88.0		50.0-150		08/04/2015 10:16	WG806321

Cp

Tc

Ss

Cn

Sr

Qc

GI

Al

Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.9		1	08/04/2015 08:51	WG806614

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) Low Fraction	ND		0.596	5	08/04/2015 12:13	WG806511
(S) o,a,o-Trifluorotoluene(FID)	91.9		59.0-128		08/04/2015 12:13	WG806511

Semi-Volatile Organic Compounds (GC) by Method 3546/DRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) High Fraction	238		23.8	5	08/04/2015 10:39	WG806321
(S) o-Terphenyl	60.8		50.0-150		08/04/2015 10:39	WG806321

Cp

Tc

Ss

Cn

Sr

Qc

GI

Al

Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.0		1	08/04/2015 08:51	WG806614

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) Low Fraction	ND		0.562	5	08/04/2015 12:35	WG806511
(S) α,α,α -Trifluorotoluene(FID)	92.8		59.0-128		08/04/2015 12:35	WG806511

Semi-Volatile Organic Compounds (GC) by Method 3546/DRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) High Fraction	124		44.9	10	08/04/2015 11:01	WG806321
(S) o-Terphenyl	50.3		50.0-150		08/04/2015 11:01	WG806321

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

BOTTOM COMPOSITE

Collected date/time: 07/22/15 11:24

SAMPLE RESULTS - 05

L780179

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.1		1	08/04/2015 08:51	WG806614

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) Low Fraction	ND		0.549	5	08/04/2015 12:58	WG806511
(S) o,p,p'-Trifluorotoluene(FID)	90.9		59.0-128		08/04/2015 12:58	WG806511

Semi-Volatile Organic Compounds (GC) by Method 3546/DRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) High Fraction	ND		22.0	5	08/04/2015 10:27	WG806321
(S) o-Terphenyl	73.4		50.0-150		08/04/2015 10:27	WG806321

Sample Narrative:

3546/DRO L780179-05 WG806321: Cannot run at lower dilution due to viscosity of extract

Cp

Tc

Ss

Cn

Sr

Qc

GI

Al

Sc

WG806614

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

L780179-01,02,03,04,05

ONE LAB. NATIONWIDE



Method Blank (MB)

(MB) 08/04/15 08:49

Analyte	MB Result %	MB Qualifier	MB RDL %
Total Solids	0.000300		

L780179-01 Original Sample (OS) • Duplicate (DUP)

(OS) 08/04/15 08:50 • (DUP) 08/04/15 08:50

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	90.7	89.8	1	1.01		5

Laboratory Control Sample (LCS)

(LCS) 08/04/15 08:49

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

ACCOUNT:
EnviroTech- NMPROJECT:
11195-0193SDG:
L780179DATE/TIME:
08/04/15 14:04PAGE:
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WG806511

Volatile Organic Compounds (GC) by Method 8015D/GRO

QUALITY CONTROL SUMMARY

L780179-01.02.03.04.05

ONE LAB. NATIONWIDE



Method Blank (MB)

(MB) 08/04/15 09:47

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
TPH (GC/FID) Low Fraction	ND		0.100
(S) o,a,a-Trifluorotoluene(FID)	92.4		59.0-128

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 08/04/15 08:41 • (LCSD) 08/04/15 09:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.29	6.38	114	116	63.5-137			139	20
(S) o,a,a-Trifluorotoluene(FID)				101	102	59.0-128				

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

ACCOUNT:
EnviroTech- NMPROJECT:
11195-0193SDG:
L780179DATE/TIME:
08/04/15 14:04PAGE:
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WG806321

Semi-Volatile Organic Compounds (GC) by Method 3546/DRO

QUALITY CONTROL SUMMARY

L780179-01,02,03,04,05

ONE LAB. NATIONWIDE

Method Blank (MB)

(MB) 08/04/15 09:42

Analyte	MB Result mg/kg	MB Qualifier	MB RDL mg/kg
TPH (GC/FID) High Fraction	ND		4.00
(S) o-Terphenyl	95.2		50.0-150

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 08/04/15 09:54 • (LCSD) 08/04/15 10:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec %	LCSD Rec %	Rec Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	60.0	52.2	50.1	87.0	83.6	50.0-150			4.04	20
(S) o-Terphenyl				93.3	95.8	50.0-150				

ACCOUNT:
EnviroTech- NMPROJECT:
11195-0193SDS:
L780179DATE/TIME:
08/04/15 14:04PAGE:
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Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

**Abbreviations and Definitions**

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
-----------	-------------

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc

GI

⁸ Al⁹ Sc

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey--NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio--VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ¹⁴ Accreditation not applicable

Third Party & Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA	100789
Canada	1461.01	DOD	1461.01
EPA-Crypto	TN00003	USDA	S-67674

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



[illegible]



Analytical Report

Report Summary

Client: Encana Oil & Gas USA

Chain Of Custody Number:

Samples Received: 8/14/2015 3:45:00PM

Job Number: 11195-0193

Work Order: P508046

Project Name/Location: Lybrook 002R

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Tim Cain, Laboratory Manager

Date: 8/18/15

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
18-Aug-15 08:34

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
E. Wall	P508046-01A	Soil	08/14/15	08/14/15	Glass Jar, 4 oz.
S. Wall	P508046-02A	Soil	08/14/15	08/14/15	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com



Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
18-Aug-15 08:34

E. Wall
P508046-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1534001	08/17/15	08/17/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1534001	08/17/15	08/17/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1534001	08/17/15	08/17/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1534001	08/17/15	08/17/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1534001	08/17/15	08/17/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1534001	08/17/15	08/17/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1534001	08/17/15	08/17/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %		50-150	1534001	08/17/15	08/17/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	19.9	mg/kg	1	1534001	08/17/15	08/17/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1534002	08/17/15	08/17/15	EPA 8015D	
Surrogate: o-Terphenyl		87.0 %		50-200	1534002	08/17/15	08/17/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		99.8 %		50-150	1534001	08/17/15	08/17/15	EPA 8015D	

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
18-Aug-15 08:34

S. Wall
P508046-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1534001	08/17/15	08/17/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1534001	08/17/15	08/17/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1534001	08/17/15	08/17/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1		1534001	08/17/15	08/17/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1534001	08/17/15	08/17/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1		1534001	08/17/15	08/17/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1		1534001	08/17/15	08/17/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %		50-150		1534001	08/17/15	08/17/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1		1534001	08/17/15	08/17/15	EPA 8015D	
Diesel Range Organics (C10-C28)	224	25.0	mg/kg	1		1534002	08/17/15	08/17/15	EPA 8015D	
Surrogate: o-Terphenyl		91.6 %		50-200		1534002	08/17/15	08/17/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		99.9 %		50-150		1534001	08/17/15	08/17/15	EPA 8015D	

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
18-Aug-15 08:34

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1534001 - Purge and Trap EPA 5030A

Blank (1534001-BLK1)

Prepared & Analyzed: 17-Aug-15

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	160		ug/L	160		100	50-150			

LCS (1534001-BS1)

Prepared & Analyzed: 17-Aug-15

Benzene	21.8	0.10	mg/kg	20.3		107	75-125			
Toluene	21.9	0.10	"	20.3		108	70-125			
Ethylbenzene	22.1	0.10	"	20.3		109	75-125			
p,m-Xylene	45.1	0.20	"	40.6		111	80-125			
o-Xylene	21.9	0.10	"	20.3		108	75-125			
Surrogate: 4-Bromochlorobenzene-PID	163		ug/L	160		102	50-150			

Matrix Spike (1534001-MS1)

Source: P508046-01

Prepared & Analyzed: 17-Aug-15

Benzene	19.9	0.10	mg/kg	19.9	ND	100	75-125			
Toluene	20.0	0.10	"	19.9	ND	100	70-125			
Ethylbenzene	20.1	0.10	"	19.9	ND	101	75-125			
p,m-Xylene	41.1	0.20	"	39.8	ND	103	80-125			
o-Xylene	20.0	0.10	"	19.9	ND	100	75-125			
Surrogate: 4-Bromochlorobenzene-PID	161		ug/L	160		100	50-150			

Matrix Spike Dup (1534001-MSD1)

Source: P508046-01

Prepared & Analyzed: 17-Aug-15

Benzene	21.0	0.10	mg/kg	19.8	ND	106	75-125	5.12	15	
Toluene	21.0	0.10	"	19.8	ND	106	70-125	4.93	15	
Ethylbenzene	21.1	0.10	"	19.8	ND	106	75-125	5.03	15	
p,m-Xylene	43.2	0.20	"	39.7	ND	109	80-125	4.94	15	
o-Xylene	21.0	0.10	"	19.8	ND	106	75-125	5.02	15	
Surrogate: 4-Bromochlorobenzene-PID	161		ug/L	160		101	50-150			

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
18-Aug-15 08:34

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1534001 - Purge and Trap EPA 5030A										
Blank (1534001-BLK1)				Prepared & Analyzed: 17-Aug-15						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.160		mg/L	0.160		99.9	50-150			
LCS (1534001-BS1)				Prepared & Analyzed: 17-Aug-15						
Gasoline Range Organics (C6-C10)	426	20.3	mg/kg	399		107	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.162		mg/L	0.160		101	50-150			
Matrix Spike (1534001-MS1)				Source: P508046-01		Prepared & Analyzed: 17-Aug-15				
Gasoline Range Organics (C6-C10)	389	19.9	mg/kg	391	ND	99.5	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.161		mg/L	0.160		101	50-150			
Matrix Spike Dup (1534001-MSD1)				Source: P508046-01		Prepared & Analyzed: 17-Aug-15				
Gasoline Range Organics (C6-C10)	407	19.8	mg/kg	389	ND	105	75-125	4.62	15	
Surrogate: 4-Bromochlorobenzene-FID	0.161		mg/L	0.160		101	50-150			

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
18-Aug-15 08:34

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1534002 - DRO Extraction EPA 3550M										
Blank (1534002-BLK1)				Prepared & Analyzed: 17-Aug-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	42.9		"	40.0		107	50-200			
LCS (1534002-BS1)				Prepared & Analyzed: 17-Aug-15						
Diesel Range Organics (C10-C28)	575	24.9	mg/kg	499		115	38-132			
Surrogate: o-Terphenyl	44.0		"	39.9		110	50-200			
Matrix Spike (1534002-MS1)				Source: P508046-01		Prepared & Analyzed: 17-Aug-15				
Diesel Range Organics (C10-C28)	473	25.1	mg/kg	503	ND	94.0	38-132			
Surrogate: o-Terphenyl	37.3		"	40.2		92.8	50-200			
Matrix Spike Dup (1534002-MSD1)				Source: P508046-01		Prepared & Analyzed: 17-Aug-15				
Diesel Range Organics (C10-C28)	489	25.0	mg/kg	499	ND	97.9	38-132	3.44	20	
Surrogate: o-Terphenyl	36.5		"	40.0		91.4	50-200			

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370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
18-Aug-15 08:34

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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Client: Encana
 Project: Ly Brook 002R
 Sampler: E. Garcia
 Phone: _____
 Email(s): Esam
 Project Manager: Greg Crabtree

RUSH?

☒ 1d
☐ 3d

Lab Use Only		Analysis and Method						Lab Only	
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0				
P508046									
Job Number									
11195-0193									

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0									Lab Number	Correct Cont/Prsr (s) Y/N
E. Wall	8/14/15	12:39	S	1-4oz/6/cool	X	X											1	✓
S. Wall	8/14/15	12:50	S	1-4oz/6/cool	X	X											2	✓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only	
<u>[Signature]</u>	8/14/15	15:45	<u>[Signature]</u>	8/14/15	15:45	**Received on Ice Y / N	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 <u>12.4</u> T2 <u>12.1</u> T3 _____	
						AVG Temp °C <u>12.3</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info:



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Page 9 of 9



Analytical Report

Report Summary

Client: Encana Oil & Gas USA

Chain Of Custody Number:

Samples Received: 11/11/2015 4:55:00PM

Job Number: 11195-0193

Work Order: P511017

Project Name/Location: Lybrook 002R

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 11/19/15

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 11/19/15 3:37 pm

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
North Wall E.	P511017-01A	Soil	11/10/15	11/11/15	Glass Jar, 4 oz.
North Wall W.	P511017-02A	Soil	11/10/15	11/11/15	Glass Jar, 4 oz.
West Wall N.	P511017-03A	Soil	11/10/15	11/11/15	Glass Jar, 4 oz.
West Wall S.	P511017-04A	Soil	11/10/15	11/11/15	Glass Jar, 4 oz.
South Wall W.	P511017-05A	Soil	11/10/15	11/11/15	Glass Jar, 4 oz.
South Wall E.	P511017-06A	Soil	11/10/15	11/11/15	Glass Jar, 4 oz.
East Wall S.	P511017-07A	Soil	11/10/15	11/11/15	Glass Jar, 4 oz.
East Wall N.	P511017-08A	Soil	11/10/15	11/11/15	Glass Jar, 4 oz.
N. Bottom	P511017-09A	Soil	11/10/15	11/11/15	Glass Jar, 4 oz.
S. Bottom	P511017-10A	Soil	11/10/15	11/11/15	Glass Jar, 4 oz.

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

**North Wall E.
P511017-01 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.4 %		50-150	1546022	11/11/15	11/12/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	19.9	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1546022	11/11/15	11/12/15	EPA 8015D	

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Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

**North Wall W.
P511017-02 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.1 %	50-150		1546022	11/11/15	11/12/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	19.9	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: n-Nonane		107 %	50-200		1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50-150		1546022	11/11/15	11/12/15	EPA 8015D	

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Encana Oil & Gas USA
 370 17th Street
 Denver CO, 80202

 Project Name: Lybrook 002R
 Project Number: 11195-0193
 Project Manager: Isaac Garcia

 Reported:
 19-Nov-15 15:47

West Wall N.
P511017-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.7 %		50-150		1546022	11/11/15	11/12/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1		1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: n-Nonane		98.0 %		50-200		1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %		50-150		1546022	11/11/15	11/12/15	EPA 8015D	

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370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

**West Wall S.
P511017-04 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.6 %		50-150	1546022	11/11/15	11/12/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	19.9	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8015D	
Diesel Range Organics (C10-C28)	233	25.0	mg/kg	1	1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: n-Nonane		105 %		50-200	1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %		50-150	1546022	11/11/15	11/12/15	EPA 8015D	

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

**South Wall W.
P511017-05 (Solid)**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.5 %		50-150		1546022	11/11/15	11/12/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	19.9	mg/kg	1		1546022	11/11/15	11/12/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1		1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: n-Nonane		104 %		50-200		1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %		50-150		1546022	11/11/15	11/12/15	EPA 8015D	

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Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

**South Wall E.
P511017-06 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.2 %		50-150	1546022	11/11/15	11/12/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %		50-150	1546022	11/11/15	11/12/15	EPA 8015D	

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Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

**East Wall S.
P511017-07 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %		50-150	1546022	11/11/15	11/12/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1546022	11/11/15	11/12/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %		50-150	1546022	11/11/15	11/12/15	EPA 8015D	

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Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

**East Wall N.
P511017-08 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1546033	11/12/15	11/13/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1546033	11/12/15	11/13/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1546033	11/12/15	11/13/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1546033	11/12/15	11/13/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1546033	11/12/15	11/13/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1546033	11/12/15	11/13/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1546033	11/12/15	11/13/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.4 %		50-150	1546033	11/12/15	11/13/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1546033	11/12/15	11/13/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: n-Nonane		105 %		50-200	1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %		50-150	1546033	11/12/15	11/13/15	EPA 8015D	

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Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

N. Bottom
P511017-09 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %		50-150		1546033	11/12/15	11/13/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1		1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: n-Nonane		105 %		50-200		1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %		50-150		1546033	11/12/15	11/13/15	EPA 8015D	

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Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

S. Bottom
P511017-10 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150		1546033	11/12/15	11/13/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1		1546033	11/12/15	11/13/15	EPA 8015D	
Diesel Range Organics (C10-C28)	81.1	25.0	mg/kg	1		1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: n-Nonane		95.4 %		50-200		1546031	11/12/15	11/13/15	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %		50-150		1546033	11/12/15	11/13/15	EPA 8015D	

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370 17th Street
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Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1546022 - Purge and Trap EPA 5030A

Blank (1546022-BLK1)

Prepared & Analyzed: 11-Nov-15

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.307		"	0.320		95.9	50-150			

LCS (1546022-BS1)

Prepared & Analyzed: 11-Nov-15

Benzene	10.7	0.10	mg/kg	9.98		107	70-130			
Toluene	10.5	0.10	"	9.98		105	70-130			
Ethylbenzene	10.5	0.10	"	9.98		105	70-130			
p,m-Xylene	21.2	0.20	"	20.0		106	70-130			
o-Xylene	10.1	0.10	"	9.98		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	0.311		"	0.320		97.5	50-150			

Matrix Spike (1546022-MS1)

Source: P511016-01

Prepared & Analyzed: 11-Nov-15

Benzene	10.3	0.10	mg/kg	9.94	ND	104	54.3-133			
Toluene	10.1	0.10	"	9.94	ND	102	61.4-130			
Ethylbenzene	10.1	0.10	"	9.94	ND	102	61.4-133			
p,m-Xylene	20.4	0.20	"	19.9	ND	103	63.3-131			
o-Xylene	9.75	0.10	"	9.94	ND	98.1	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	0.316		"	0.318		99.4	50-150			

Matrix Spike Dup (1546022-MSD1)

Source: P511016-01

Prepared & Analyzed: 11-Nov-15

Benzene	10.5	0.10	mg/kg	9.97	ND	105	54.3-133	1.35	20	
Toluene	10.3	0.10	"	9.97	ND	103	61.4-130	1.31	20	
Ethylbenzene	10.3	0.10	"	9.97	ND	103	61.4-133	1.06	20	
p,m-Xylene	20.6	0.20	"	19.9	ND	103	63.3-131	0.948	20	
o-Xylene	9.85	0.10	"	9.97	ND	98.8	63.3-131	1.04	20	
Surrogate: 4-Bromochlorobenzene-PID	0.318		"	0.319		99.5	50-150			

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370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1546033 - Purge and Trap EPA 5030A

Blank (1546033-BLK1)

Prepared: 12-Nov-15 Analyzed: 13-Nov-15

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							

Surrogate: 4-Bromochlorobenzene-PID 0.311 " 0.320 97.2 50-150

LCS (1546033-BS1)

Prepared: 12-Nov-15 Analyzed: 13-Nov-15

Benzene	10.3	0.10	mg/kg	10.0		103	70-130			
Toluene	10.0	0.10	"	10.0		101	70-130			
Ethylbenzene	10.1	0.10	"	10.0		101	70-130			
p,m-Xylene	20.3	0.20	"	20.0		101	70-130			
o-Xylene	9.65	0.10	"	10.0		96.6	70-130			

Surrogate: 4-Bromochlorobenzene-PID 0.314 " 0.320 98.1 50-150

Matrix Spike (1546033-MS1)

Source: P511017-08

Prepared: 12-Nov-15 Analyzed: 13-Nov-15

Benzene	10.4	0.10	mg/kg	10.0	ND	104	54.3-133			
Toluene	10.2	0.10	"	10.0	ND	102	61.4-130			
Ethylbenzene	10.2	0.10	"	10.0	ND	102	61.4-133			
p,m-Xylene	20.5	0.20	"	20.0	ND	102	63.3-131			
o-Xylene	9.76	0.10	"	10.0	ND	97.6	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 0.315 " 0.320 98.4 50-150

Matrix Spike Dup (1546033-MSD1)

Source: P511017-08

Prepared: 12-Nov-15 Analyzed: 13-Nov-15

Benzene	10.5	0.10	mg/kg	10.0	ND	105	54.3-133	1.02	20	
Toluene	10.2	0.10	"	10.0	ND	103	61.4-130	0.897	20	
Ethylbenzene	10.3	0.10	"	10.0	ND	103	61.4-133	0.682	20	
p,m-Xylene	20.6	0.20	"	20.0	ND	103	63.3-131	0.712	20	
o-Xylene	9.82	0.10	"	10.0	ND	98.3	63.3-131	0.681	20	

Surrogate: 4-Bromochlorobenzene-PID 0.317 " 0.320 98.9 50-150

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Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1546022 - Purge and Trap EPA 5030A

Blank (1546022-BLK1)

Prepared & Analyzed: 11-Nov-15

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.327		"	0.320		102	50-150			

LCS (1546022-BS1)

Prepared & Analyzed: 11-Nov-15

Gasoline Range Organics (C6-C10)	117	20.0	mg/kg	113		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.326		"	0.320		102	50-150			

Matrix Spike (1546022-MS1)

Source: P511016-01

Prepared & Analyzed: 11-Nov-15

Gasoline Range Organics (C6-C10)	115	19.9	mg/kg	112	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.330		"	0.318		104	50-150			

Matrix Spike Dup (1546022-MSD1)

Source: P511016-01

Prepared & Analyzed: 11-Nov-15

Gasoline Range Organics (C6-C10)	116	20.0	mg/kg	113	ND	103	70-130	0.855	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.332		"	0.319		104	50-150			

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1546031 - DRO Extraction EPA 3550M										
Blank (1546031-BLK1)				Prepared & Analyzed: 12-Nov-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: n-Nonane	51.3		"	50.0		103	50-200			
LCS (1546031-BS1)				Prepared & Analyzed: 12-Nov-15						
Diesel Range Organics (C10-C28)	478	25.0	mg/kg	500		95.6	38-132			
Surrogate: n-Nonane	50.2		"	50.0		100	50-200			
Matrix Spike (1546031-MS1)				Source: P511016-01		Prepared & Analyzed: 12-Nov-15				
Diesel Range Organics (C10-C28)	482	25.0	mg/kg	500	ND	96.4	38-132			
Surrogate: n-Nonane	51.4		"	50.0		103	50-200			
Matrix Spike Dup (1546031-MSD1)				Source: P511016-01		Prepared & Analyzed: 12-Nov-15				
Diesel Range Organics (C10-C28)	481	25.0	mg/kg	500	ND	96.2	38-132	0.254	20	
Surrogate: n-Nonane	50.8		"	50.0		102	50-200			
Blank (1546031-BLK2)				Prepared: 12-Nov-15 Analyzed: 13-Nov-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: n-Nonane	52.4		"	50.0		105	50-200			
LCS (1546031-BS2)				Prepared: 12-Nov-15 Analyzed: 13-Nov-15						
Diesel Range Organics (C10-C28)	498	25.0	mg/kg	500		99.6	38-132			
Surrogate: n-Nonane	51.3		"	50.0		103	50-200			
Matrix Spike (1546031-MS2)				Source: P511017-01		Prepared: 12-Nov-15 Analyzed: 13-Nov-15				
Diesel Range Organics (C10-C28)	496	25.0	mg/kg	500	ND	99.3	38-132			
Surrogate: n-Nonane	46.9		"	50.0		93.8	50-200			
Matrix Spike Dup (1546031-MSD2)				Source: P511017-01		Prepared: 12-Nov-15 Analyzed: 13-Nov-15				
Diesel Range Organics (C10-C28)	508	25.0	mg/kg	500	ND	102	38-132	2.26	20	
Surrogate: n-Nonane	47.8		"	50.0		95.5	50-200			

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1546033 - Purge and Trap EPA 5030A										
Blank (1546033-BLK1)				Prepared: 12-Nov-15 Analyzed: 13-Nov-15						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.344		"	0.320		108	50-150			
LCS (1546033-BS1)				Prepared: 12-Nov-15 Analyzed: 13-Nov-15						
Gasoline Range Organics (C6-C10)	119	20.0	mg/kg	113		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.346		"	0.320		108	50-150			
Matrix Spike (1546033-MS1)				Source: P511017-08 Prepared: 12-Nov-15 Analyzed: 13-Nov-15						
Gasoline Range Organics (C6-C10)	119	20.0	mg/kg	113	ND	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.344		"	0.320		108	50-150			
Matrix Spike Dup (1546033-MSD1)				Source: P511017-08 Prepared: 12-Nov-15 Analyzed: 13-Nov-15						
Gasoline Range Organics (C6-C10)	120	20.0	mg/kg	113	ND	106	70-130	0.753	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.345		"	0.320		108	50-150			

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Isaac Garcia

Reported:
19-Nov-15 15:47

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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Client: Encana
 Project: Ly Brook 002 R
 Sampler: R. Garcia
 Phone: _____
 Email(s): Isaac G
 Project Manager: Greg Crahtree

RUSH?

☐ 1d
☐ 3d

Lab Use Only		Analysis and Method				Lab Only	
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Lab Number	Correct Conf/Prsrv (s) Y/N
Job Number							
PS1107							
11195-0193							
Page 1 of 1							

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Lab Number	Correct Conf/Prsrv (s) Y/N
North Wall E.	11/10/15	11:04	S	1-4oz/61 cool	X	X			1	✓
North Wall W.		11:08							2	
West Wall N.		11:13							3	
West wall S.		11:17							4	
South Wall W		11:21							5	
South Wall E.		11:25							6	
East Wall S.		11:29							7	
East Wall N.		11:34							8	
N. Bottom		11:39							9	
S. Bottom		11:44							10	✓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only		
<i>[Signature]</i>	11/10/15	13:53	<i>[Signature]</i>	11.10.13	16:55	**Received on Ice Y / N		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1	T2	T3
						9.6	8.3	7.1
						AVG Temp °C 8.3		

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info:



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Analytical Report

Report Summary

Client: Encana Oil & Gas USA

Chain Of Custody Number:

Samples Received: 12/14/2015 1:32:00PM

Job Number: 11195-0193

Work Order: P512027

Project Name/Location: Lybrook 002R

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Tim Cain, Laboratory Manager

Date: 12/15/15

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Greg Crabtree

Reported:
15-Dec-15 11:17

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
West Wall S. + 18"	P512027-01A	Soil	12/14/15	12/14/15	Glass Jar, 4 oz.

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Greg Crabtree

Reported:
15-Dec-15 11:17

West Wall S. + 18"
P512027-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1551010	12/14/15	12/14/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1551010	12/14/15	12/14/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1551010	12/14/15	12/14/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1551010	12/14/15	12/14/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1551010	12/14/15	12/14/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1551010	12/14/15	12/14/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1551010	12/14/15	12/14/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		83.5 %		50-150	1551010	12/14/15	12/14/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1551010	12/14/15	12/14/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1551008	12/14/15	12/14/15	EPA 8015D	
Surrogate: n-Nonane		114 %		50-200	1551008	12/14/15	12/14/15	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		76.1 %		50-150	1551010	12/14/15	12/14/15	EPA 8015D	

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Greg Crabtree

Reported:
15-Dec-15 11:17

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1551010 - Purge and Trap EPA 5030A

Blank (1551010-BLK1)

Prepared & Analyzed: 14-Dec-15

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.334		"	0.400		83.5	50-150			

LCS (1551010-BS1)

Prepared & Analyzed: 14-Dec-15

Benzene	12.2	0.10	mg/kg	10.0		122	70-130			
Toluene	12.0	0.10	"	10.0		120	70-130			
Ethylbenzene	12.0	0.10	"	10.0		120	70-130			
p,m-Xylene	23.7	0.20	"	20.0		119	70-130			
o-Xylene	11.6	0.10	"	10.0		116	70-130			
Surrogate: 4-Bromochlorobenzene-PID	0.332		"	0.400		83.0	50-150			

Matrix Spike (1551010-MS1)

Source: P512027-01

Prepared & Analyzed: 14-Dec-15

Benzene	10.1	0.10	mg/kg	10.0	ND	101	54.3-133			
Toluene	9.89	0.10	"	10.0	ND	99.0	61.4-130			
Ethylbenzene	9.89	0.10	"	10.0	ND	98.9	61.4-133			
p,m-Xylene	19.7	0.20	"	20.0	ND	98.4	63.3-131			
o-Xylene	9.67	0.10	"	10.0	ND	96.7	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	0.332		"	0.400		83.1	50-150			

Matrix Spike Dup (1551010-MSD1)

Source: P512027-01

Prepared & Analyzed: 14-Dec-15

Benzene	11.0	0.10	mg/kg	10.0	ND	110	54.3-133	8.15	20	
Toluene	10.7	0.10	"	10.0	ND	107	61.4-130	8.10	20	
Ethylbenzene	10.7	0.10	"	10.0	ND	107	61.4-133	8.12	20	
p,m-Xylene	21.3	0.20	"	20.0	ND	107	63.3-131	7.93	20	
o-Xylene	10.4	0.10	"	10.0	ND	104	63.3-131	7.13	20	
Surrogate: 4-Bromochlorobenzene-PID	0.335		"	0.400		83.8	50-150			

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Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Greg Crabtree

Reported:
15-Dec-15 11:17

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1551008 - DRO Extraction EPA 3550M										
Blank (1551008-BLK1)				Prepared & Analyzed: 14-Dec-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: n-Nonane	59.5		"	50.0		119	50-200			
LCS (1551008-BS1)				Prepared & Analyzed: 14-Dec-15						
Diesel Range Organics (C10-C28)	499	25.0	mg/kg	500		99.7	38-132			
Surrogate: n-Nonane	52.8		"	50.0		106	50-200			
Matrix Spike (1551008-MS1)				Source: P512018-01		Prepared & Analyzed: 14-Dec-15				
Diesel Range Organics (C10-C28)	2740	25.0	mg/kg	500	1870	174	38-132			SPK1
Surrogate: n-Nonane	68.7		"	50.0		137	50-200			
Matrix Spike Dup (1551008-MSD1)				Source: P512018-01		Prepared: 14-Dec-15 Analyzed: 15-Dec-15				
Diesel Range Organics (C10-C28)	3060	25.0	mg/kg	500	1870	237	38-132	10.7	20	SPK1
Surrogate: n-Nonane	66.0		"	50.0		132	50-200			

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Project Manager: Greg Crabtree

Reported:
15-Dec-15 11:17

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1551010 - Purge and Trap EPA 5030A										
Blank (1551010-BLK1)				Prepared & Analyzed: 14-Dec-15						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.285		"	0.400		71.4	50-150			
LCS (1551010-BS1)				Prepared & Analyzed: 14-Dec-15						
Gasoline Range Organics (C6-C10)	118	20.0	mg/kg	106		111	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.277		"	0.400		69.2	50-150			
Matrix Spike (1551010-MS1)				Source: P512027-01		Prepared & Analyzed: 14-Dec-15				
Gasoline Range Organics (C6-C10)	103	20.0	mg/kg	106	ND	96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.290		"	0.400		72.5	50-150			
Matrix Spike Dup (1551010-MSD1)				Source: P512027-01		Prepared & Analyzed: 14-Dec-15				
Gasoline Range Organics (C6-C10)	112	20.0	mg/kg	106	ND	106	70-130	8.59	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.293		"	0.400		73.3	50-150			

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370 17th Street
Denver CO, 80202

Project Name: Lybrook 002R
Project Number: 11195-0193
Project Manager: Greg Crabtree

Reported:
15-Dec-15 11:17

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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Project Manager: Gary Crabtree

3d

11195-0193

Page

/ of /

Nur

Chloride by 300.0

Lab Num

Correct Cont/Prsrv (s) Y/N

QTY - Vol/TYPE/Preservative

--	--

[illegible][illegible]

y

1-402/G/cool

T3

AVG Temp °C

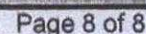
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

	Sample(s) dropped off after hours to a secure drop off area.
--	--

Chain of Custody

Notes/Billing info:



APPENDIX C

Site Photography

Site Photography
Encana Oil & Gas
LyBrook 002R Well Site
Spill Assessment and Confirmation Sampling Report
Project No. 11195-0193

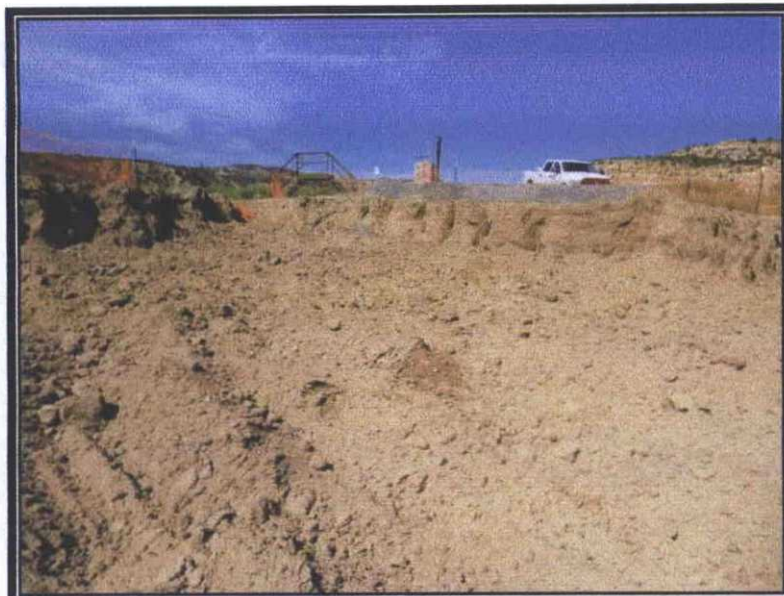


Picture 1: Site (7/22/15)



Picture 2: North East View (7/22/15)

Site Photography
Encana Oil & Gas
LyBrook 002R Well Site
Spill Assessment and Confirmation Sampling Report
Project No. 11195-0193

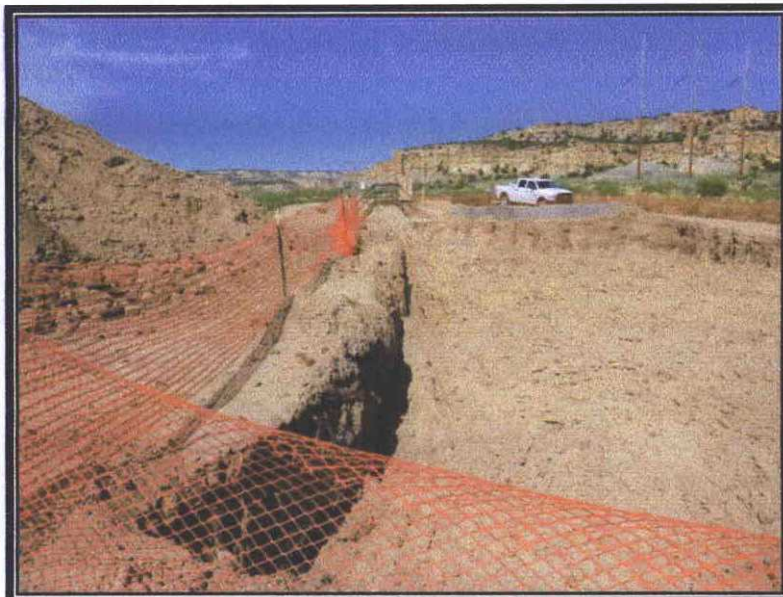


Picture 3: West View (7/22/15)

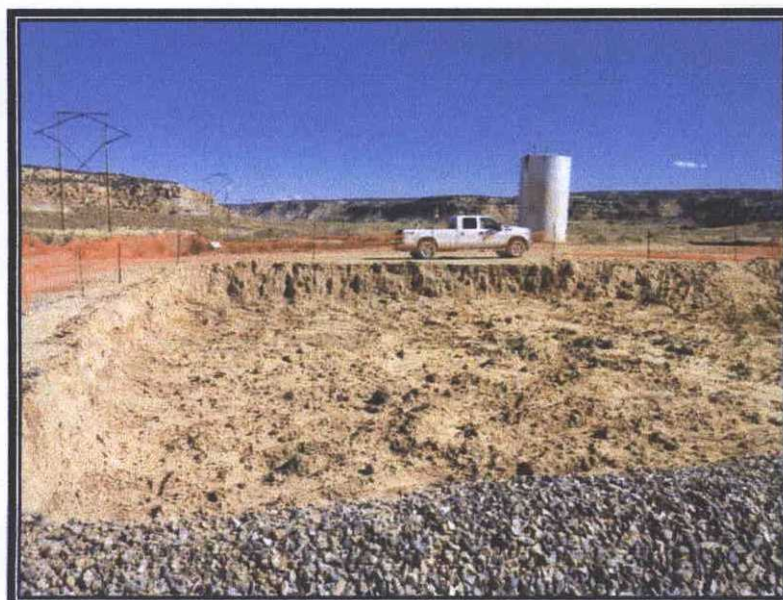


Picture 4: North View (7/22/15)

Site Photography
Encana Oil & Gas
LyBrook 002R Well Site
Spill Assessment and Confirmation Sampling Report
Project No. 11195-0193

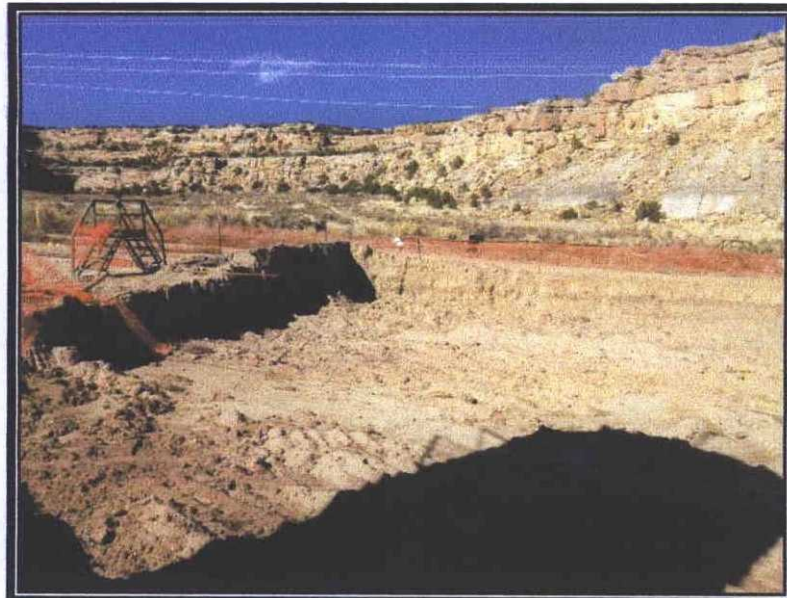


Picture 5: West View of South Wall (7/22/15)

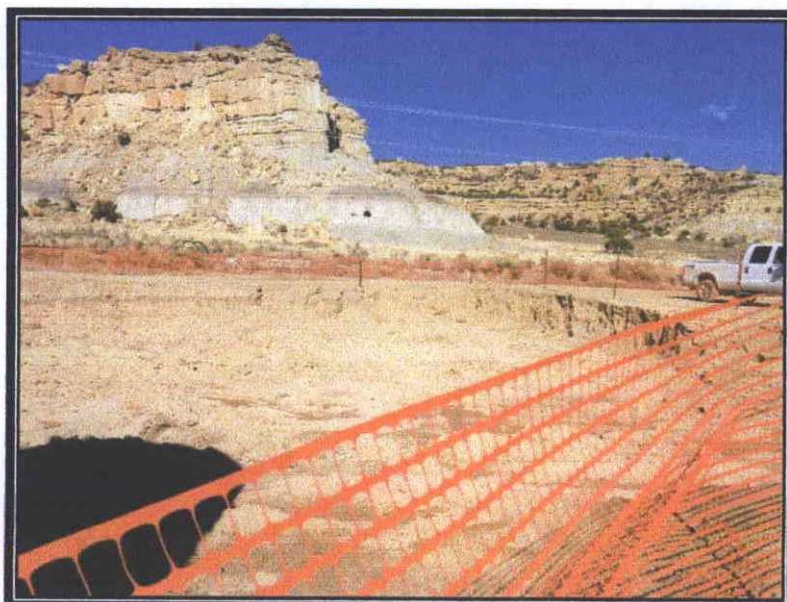


Picture 6: East View (11/10/15)

Site Photography
Encana Oil & Gas
LyBrook 002R Well Site
Spill Assessment and Confirmation Sampling Report
Project No. 11195-0193

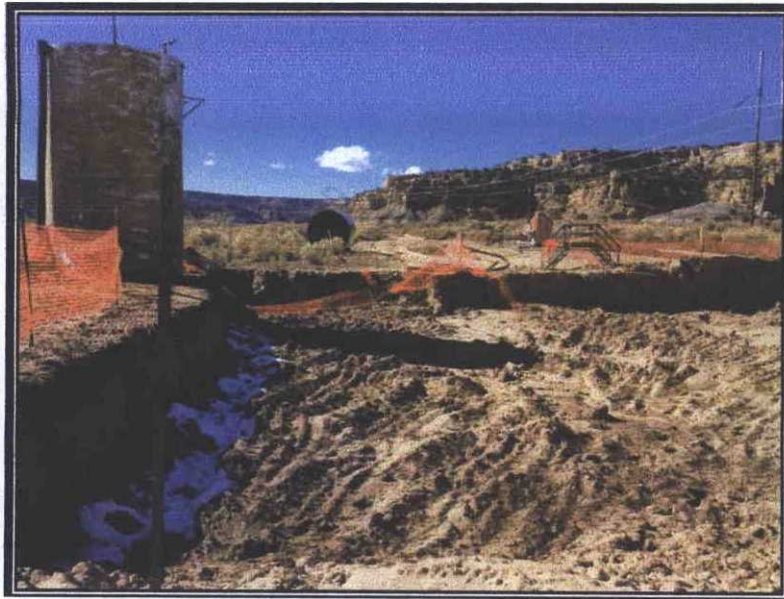


Picture 7: North West View (11/10/15)

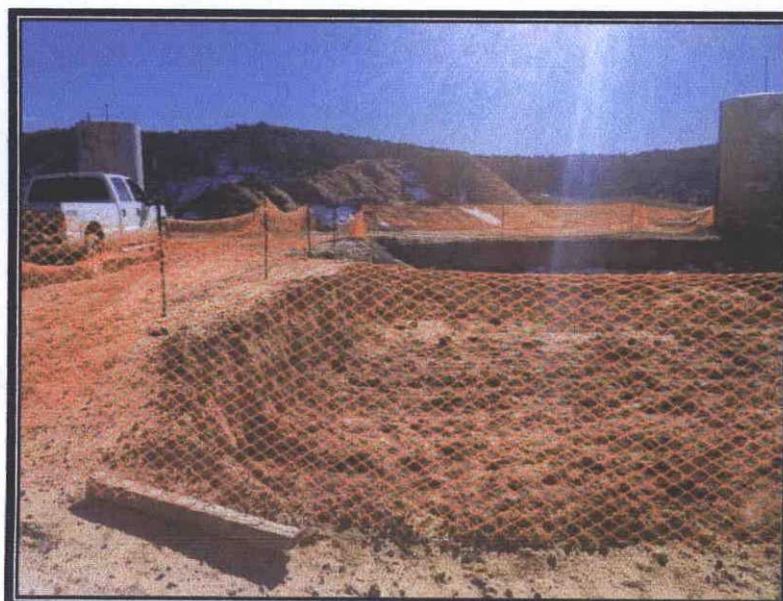


Picture 8: North East View (11/10/15)

Site Photography
Encana Oil & Gas
LyBrook 002R Well Site
Spill Assessment and Confirmation Sampling Report
Project No. 11195-0193

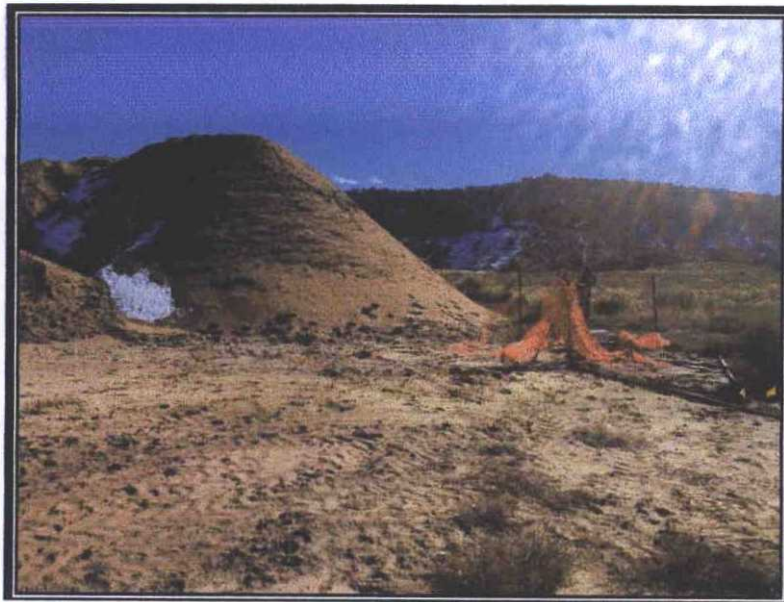


Picture 9: West View (11/10/15)

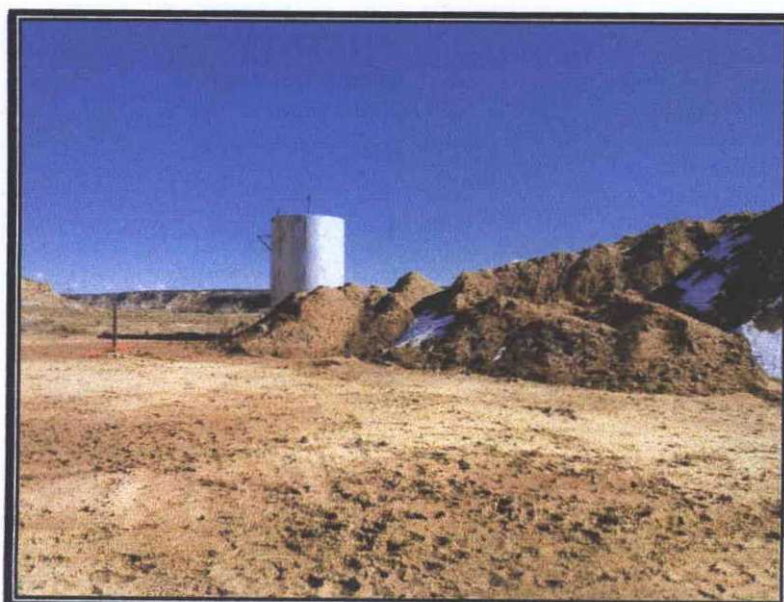


Picture 10: South View (11/10/15)

Site Photography
Encana Oil & Gas
LyBrook 002R Well Site
Spill Assessment and Confirmation Sampling Report
Project No. 11195-0193



Picture 11: Clean fill Pile (11/10/15)



Picture 12: Clean Fill Pile (11/10/15)

APPENDIX D

Bill of Ladings/ C-138 Request for Approval



Bill of Lading

GENERATOR EKANA

POINT OF ORIGIN LY3 Rock 2R

TRANSPORTER KERLEY ORFIELD

DATE 22 JUN 15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact

Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

GENERATOR ncna

POINT OF ORIGIN Lybrook 2 R

TRANSPORTER Kelly oil Field

DATE 6-30-15 JOB # 1195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

[illegible]

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact	Phone

Signatures required prior to distribution of the legal document.

DISTRIBUTION: **White** - Company Records, **Yellow** - Billing, **Pink** - Customer, **Goldenrod** - LF Copy



MANIFEST # 52285
GENERATOR Tencang
POINT OF ORIGIN Lubuk 2R
TRANSPORTER Kelley or 1 field
DATE 7-16-15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



DATE 7-22-15 JOB # 11195-091

RESULTS		LANDFARM EMPLOYEE	<i>Gay Robinson</i> Certification of above receipt & placement	NOTES
276	CHLORIDE TEST			
	PAINT FILTER TEST			

San Juan reproduction 578-126



MANIFEST # 52993

GENERATOR ENCANA

POINT OF ORIGIN LYBROOK Q2R

TRANSPORTER KELLY OILFIELD

DATE 8 SEP 15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: **White** - Company Records, **Yellow** - Billing, **Pink** - Customer, **Goldenrod** - LF Copy

**envirotech**

Bill of Lading

MANIFEST # 52999

GENERATOR Encana

POINT OF ORIGIN Lybrook 2R

TRANSPORTER Kelley O'Field

DATE 9-9-15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

[illegible]

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: **White** - Company Records, **Yellow** - Billing, **Pink** - Customer, **Goldenrod** - LF Copy

san juan reproduction 578-129

**envirotech**

Bill of Lading

MANIFEST # 53003

GENERATOR Encora

POINT OF ORIGIN Lybrook 2 R

TRANSPORTER Kelley O'Field

DATE 9-10-15 JOB # 11195-0991

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

[illegible]

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact

Phone

Signatures required prior to distribution of the legal document.

DISTRIBUTION: **White** - Company Records, **Yellow** - Billing, **Pink** - Customer, **Goldenrod** - LF Copy

san juan reproduction 578-126



Bill of Lading

MANIFEST # **53008**
GENERATOR ENCANA
POINT OF ORIGIN Lybrook 2R
TRANSPORTER Kelley O'Field
DATE 9-11-15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFII	Cont Soil	P1	20	-	-	DT02	1048	<i>[Signature]</i>
2	LFII	CONT. SOIL	P1	10	-	-	DT03	1350	Emerson
3	"	"	P-1	20	-	-	02	14:00	<i>[Signature]</i>
4	"	"	P-1	20	-	-	503	16:25	Ron A
5	"	"	P-1	20	-	-	501	16:25	<i>[Signature]</i>
6	"	"	P-1	10	-	-	03	17:00	Emm
7	"	"	P-1	20	-	-	02	17:15	<i>[Signature]</i>
				<u>120</u>					
RESULTS		LANDFARM EMPLOYEE	NOTES						
<u>278</u>	CHLORIDE TEST								
	PAINT FILTER TEST	<u>2</u>	Certification of above receipt & placement						

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **53012**
GENERATOR Encana
POINT OF ORIGIN Cybrock 2R
TRANSPORTER Kelley Oil Field Service
DATE 9-12-15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1.	LF II	Cont. Soil	P-4	20			DT.2	9:40	<i>[Signature]</i>
2.	LF II	" "	P-4	20			502-S	10:20	<i>Minor Brega</i>
3.	" "	" "	P-4	20			501-S	10:50	<i>Bachal</i>
4.	" "	" "	P-4	20			503-S	10:50	<i>[Signature]</i>
5.	LF II	Cont. Soil	P-4	10			DT03	11:20	<i>Johnnie Borne</i>
6.	LF II	CONT. SOIL	P-4	20			DT-02	1225	<i>[Signature]</i>
7.	LF II	CONT. SOIL	P-4	20			502-S	1330	<i>Minor Brega</i>
8.	LF II	CONT. SOIL	P-4	20			501-S	1405	<i>Bachal</i>
9.	LF II	CONT. SOIL	P-4	20			503-S	1415	<i>[Signature]</i>
10.	LF II	CONT. SOIL	P-4	10			DT-02	1445	<i>Johnnie Borne</i>
RESULTS		LANDFARM EMPLOYEE		NOTES					
C-278	CHLORIDE TEST	3							
	PAINT FILTER TEST	3							
Certification of above receipt & placement									

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **53014**GENERATOR ENCANAPOINT OF ORIGIN LYBROOK 2RTRANSPORTER KELLY OLFORDDATE 12 SEP 15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFII	CONT. SOIL	P4	20			DT-02	1510	<i>[Signature]</i>
2	LFII	CONT. SOIL	P4	20			502-S	1650	<i>[Signature]</i>
3	LFII	CONT. SOIL	P4	20			503-S	1730	<i>[Signature]</i>
4	LFII	CONT. SOIL	P4	20			501-S	1740	<i>[Signature]</i>
5	LFII	CONT. SOIL	P4	20			DT-02	1810	<i>[Signature]</i>
6	LFII	CONT. SOIL	P4	10			DT-03	1810	<i>[Signature]</i>
				<u>110</u>					
RESULTS		LANDFARM EMPLOYEE		NOTES					
<i>LFII</i>	CHLORIDE TEST	<i>2</i>							
	PAINT FILTER TEST	<i>2</i>	Certification of above receipt & placement						

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **53016**GENERATOR ENEERNAPOINT OF ORIGIN HyBeak 2RTRANSPORTER Kelly On Pulp S. GarciaDATE 7-13-15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF II	CONT. SOIL	P-4	20			DT. 2	8:45	<i>[Signature]</i>
2	" 1	" "	P-4	20			501.5	10:30	<i>[Signature]</i>
3	LF II	" "	P-4	20			502.5	10:40	<i>[Signature]</i>
4	" "	" "	P-4	20			503.5	10:50	<i>[Signature]</i>
5	" "	" "	P-4	10			DT#3	11:35	<i>[Signature]</i>
6	" "	" "	P-4	20			DT#2	11:43	<i>[Signature]</i>
7	LF II	CONT. SOIL	P-4	20			501-5	1400	<i>[Signature]</i>
8	LF II	CONT. SOIL	P-4	20			502-5	1400	<i>[Signature]</i>
9	LF II	CONT. SOIL	P-4	20			503-5	1415	<i>[Signature]</i>
10	LF II	CONT. SOIL	P-4	20			DT-2	1435	<i>[Signature]</i>
RESULTS		LANDFARM EMPLOYEE		NOTES					
4278	CHLORIDE TEST	3	<i>[Signature]</i> 190 Certification of above receipt & placement						
	PAINT FILTER TEST	3							

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy

**envirotech****Bill of Lading**MANIFEST # **53018**GENERATOR ENCANAPOINT OF ORIGIN LYBROOK ARTRANSPORTER KELLY ORFELDDATE 13 SEP 15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFI	CONT. SOIL	P-5	10			DT-3	1455	Johnnie Bon
2	LFI	CONT. SOIL	P-5	20			502-S	1730	Miner Arcego
3	LFI	CONT. SOIL	P-5	20			DT-2	1740	Ernest P
4	LFI	CONT. SOIL	P-5	20			501-S	1745	Bechal
5	LFI	CONT. SOIL	P-5	20			503-S	1805	C. G. G.
6	LFI	CONT. SOIL	P-5	10			DT-3	1835	Johnnie Bon
				<u>100</u>					
RESULTS		LANDFARM EMPLOYEE	NOTES						
<u>278</u>	CHLORIDE TEST								
	PAINT FILTER TEST	<u>2</u>	Certification of above receipt & placement						

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



DATE 9-15-15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: **White** - Company Records, **Yellow** - Billing, **Pink** - Customer, **Goldenrod** - LF Copy



envirotech

Bill of Lading

MANIFEST # **53050**




GENERATOR Encona

POINT OF ORIGIN Lybrook 2R

TRANSPORTER Kelley oilfield

DATE 9-16-15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY																
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE													
1	LFII	Con't Soil	Q1	20	—	—	Dt 02	0740	Emm													
2	"	"	Q-1	20	—	—	501	14:10	Rachul													
3	"	"	Q-1	10	—	—	03	16:35	John D													
4	"	"	Q-1	20	—	—	02	17:10	Emerson													
5	"	"	Q-1	20	—	—	501	18:05	Rachul													
				<u>90</u>																		
<table border="1"> <tr> <td colspan="2">RESULTS</td> <td rowspan="2">LANDFARM EMPLOYEE</td> <td rowspan="2">  Certification of above receipt & placement </td> <td rowspan="2">NOTES</td> </tr> <tr> <td>278</td> <td>CHLORIDE TEST</td> <td>2</td> </tr> <tr> <td></td> <td>PAINT FILTER TEST</td> <td>2</td> <td></td> <td></td> </tr> </table>										RESULTS		LANDFARM EMPLOYEE	 Certification of above receipt & placement	NOTES	278	CHLORIDE TEST	2		PAINT FILTER TEST	2		
RESULTS		LANDFARM EMPLOYEE	 Certification of above receipt & placement	NOTES																		
278	CHLORIDE TEST				2																	
	PAINT FILTER TEST	2																				

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **53062**
GENERATOR Encapa
POINT OF ORIGIN Cybrook 2R
TRANSPORTER Kelley
DATE 9-17-12 JOB # 11125-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFII	CON'T SOIL	0-4	20	—	—	D402	1055	Emerson
2	"	" "	0-4	20	—	—	5015	1120	Berchul
3	"	" "	0-4	20	—	—	5025	1140	Muniz Arago
4	"	" "	0-4	20	—	—	503	11:55	Ron A
5	"	" "	0-4	12	—	—	03	12:25	Thurman
6	"	" "	0-4	20	—	—	02	14:15	Emerson
7	"	" "	0-4	20	—	—	501	14:30	Berchul
8	"	" "	0-4	20	—	—	502	15:05	Muniz Arago
9	"	" "	0-4	20	—	—	503	15:20	Ron A
10	"	" "	0-4	10	—	—	03	16:35	Thurman

RESULTS		LANDFARM EMPLOYEE <u>Gary Robinson</u> 182	NOTES
<278	CHLORIDE TEST		
	PAINT FILTER TEST	3	Certification of above receipt & placement

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



MANIFEST # 53066

GENERATOR *ΣΥΝΑΡΤ*

POINT OF ORIGIN CYBRICK 2R

TRANSPORTER *Kelly Elizabeth Field*

DATE 9-17-15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact	Phone
--------------------------	-------

Signatures required prior to distribution of the legal document.

DISTRIBUTION: **White** - Company Records, **Yellow** - Billing, **Pink** - Customer, **Goldenrod** - LF Copy



Bill of Lading

MANIFEST # **53070**
GENERATOR ENCANA
POINT OF ORIGIN LYBANK 2R
TRANSPORTER 9-18-1 Kelley Oil Field
DATE 9-18-15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFTI	cont Soil	0-3	20	—	—	503	10:20	Minor Diego
2	"	"	0-3	20	—	—	504	11:05	Amuel
3	"	"	0-3	20	—	—	503	11:35	Ron A
4	"	"	0-3	20	—	—	02	13:30	Emerson
5	"	"	0-3	10	—	—	03	13:55	Johnnie Brown
6	"	"	0-3	20	—	—	504	14:30	Jergio C
7	"	"	0-3	20	—	—	502	15:00	Minor Diego
8	"	"	0-3	20	—	—	503	15:35	Ron A
9	"	"	0-3	20	—	—	504	17:35	Jergio C
					170				
RESULTS		LANDFARM EMPLOYEE	NOTES						
4278	CHLORIDE TEST								
	PAINT FILTER TEST	2	Certification of above receipt & placement						

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



DATE 6-30-15 JOB # 11195-0191

San Juan (reproduction 578-12)





Bill of Lading

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

MANIFEST # **52992**
GENERATOR E. Tech
POINT OF ORIGIN Land Farm
TRANSPORTER Kelley and Field
DATE 9-8-15 JOB # 11195-0191

[illegible]

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact	Phone

Signatures required prior to distribution of the legal document.

DISTRIBUTION: **White** - Company Records, **Yellow** - Billing, **Pink** - Customer, **Goldenrod** - LF Copy



MANIFEST # 52997

GENERATOR Envirotech

POINT OF ORIGIN Land Farm

TRANSPORTER Kelley Orlfield

DATE 9-9-15 JOB # 11195-0191

[illegible]

RESULTS

CHLORIDE TEST

LANDFARM
EMPLOYEE

PAINT FILTER TEST

Certification of above receipt & placement

NOTES

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact	Phone

Signatures required prior to distribution of the legal document.

DISTRIBUTION: **White** - Company Records, **Yellow** - Billing, **Pink** - Customer, **Goldenrod** - LF Copy

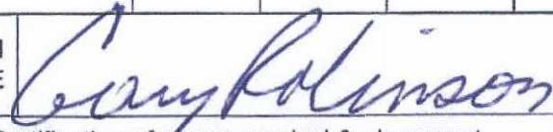


envirotech

Bill of Lading

MANIFEST # **53001**
 GENERATOR E. tech
 POINT OF ORIGIN Land Farm
 TRANSPORTER Kelley oil Field
 DATE 9-10-15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY					
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE		
1	Encana Lybrook 2R	Clean Fill Soil	—	20	—	—	#POP Dt 02	800	Logan E		
2	" "	" " "	—	20	—	—	POP Dt 02	1145	Logan E		
3	" "	" " "	—	12	—	—	Dt 03	1420	John Brown		
4	" "	" "	—	20	—	—	02	15:25	Logan E		
				<u>72</u>							
RESULTS		LANDFARM EMPLOYEE	<div>  </div> Certification of above receipt & placement							NOTES	
<input checked="" type="checkbox"/>	CHLORIDE TEST									<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	PAINT FILTER TEST	<input checked="" type="checkbox"/>									

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **53007**
GENERATOR E tech
POINT OF ORIGIN Land Farm
TRANSPORTER Kelley Oil Field
DATE 9-11-15 JOB # 1195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	Encana Lybrook 2R	Clean Fill Soil	-	20	-	-	D+02	0745	Emerson
2	" "	" "	-	12	-	-	D+03	1000	Emerson
3	" "	" "	-	20	-	-	D+02	1048	Emerson
4	" "	" "	-	10	-	-	DT-03	1350	Emerson
5	" "	" "	-	20	-	-	02	14:00	Emerson
6	" "	" "	-	20	-	-	02	17:15	Emerson
				102					
RESULTS									
CHLORIDE TEST		LANDFARM EMPLOYEE		NOTES					
PAINT FILTER TEST		Certification of above receipt & placement							

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

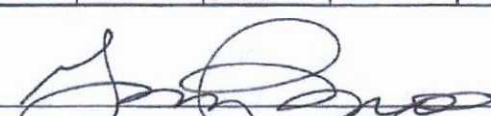
DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **53011**
GENERATOR Envirotech
POINT OF ORIGIN Landfarm
TRANSPORTER Kelley Oil Field Service
DATE 9-12-15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	Encana - Lybrook 2-R	Clean fill	-	20	-	-	502.5	7:15	Minor Briggs
2	" "	" "	-	20	-	-	501.5	7:15	Bach
3	Encana Lybrook - 2-R	Clean fill	-	20	-	-	503.5	7:30	Johnnie Bowen
4	" "	" "	-	10	-	-	DT03	8:10	Johnnie Bowen
5	" "	" "	-	20	-	-	DT-2	9:40	Johnnie Bowen
6	" "	" "	-	20	-	-	502.2	10:20	Minor Briggs
7	Encana Lybrook - 2R	Clean fill	-	20	-	-	501.2	10:50	Bach
8	" "	" "	-	20	-	-	503.5	10:50	Johnnie Bowen
9	" "	" "	-	10	-	-	DT-03	11:20	Johnnie Bowen
10	Encana Lybrook - 2R	Clean fill		160					
RESULTS		LANDFARM EMPLOYEE	NOTES						
<input checked="" type="checkbox"/>	CHLORIDE TEST	 Certification of above receipt & placement							
<input checked="" type="checkbox"/>	PAINT FILTER TEST								

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **53013**GENERATOR ENVIROTECHPOINT OF ORIGIN LANDFARMTRANSPORTER KELLY OILFIELDDATE 12 SEP 15 JOB # 11195-0691

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	<u>ENCLAVE</u> <u>LYBROOK 2R</u>	<u>CLEAN FILL</u>		<u>20</u>			<u>DT-02</u>	<u>1225</u>	<u>[Signature]</u>
2	<u>"</u>	<u>CLEAN FILL</u>		<u>20</u>			<u>502-S</u>	<u>1330</u>	<u>Minor [Signature]</u>
3	<u>"</u>	<u>CLEAN FILL</u>		<u>20</u>			<u>501-S</u>	<u>1405</u>	<u>Bochul</u>
4	<u>"</u>	<u>CLEAN FILL</u>		<u>20</u>			<u>503-S</u>	<u>1415</u>	<u>[Signature]</u>
5	<u>"</u>	<u>CLEAN FILL</u>		<u>10</u>			<u>DT-03</u>	<u>1445</u>	<u>[Signature]</u>
6	<u>"</u>	<u>CLEAN FILL</u>		<u>20</u>			<u>DT-02</u>	<u>1510</u>	<u>[Signature]</u>
7	<u>"</u>	<u>CLEAN FILL</u>		<u>20</u>			<u>DT-02</u>	<u>1810</u>	<u>[Signature]</u>
				<u>130</u>					
RESULTS		LANDFARM EMPLOYEE		NOTES					
<u>/</u>	CHLORIDE TEST	<u>/</u>							
<u>/</u>	PAINT FILTER TEST	<u>/</u>							
				Certification of above receipt & placement					

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **53015**GENERATOR ENVIROTECHPOINT OF ORIGIN ENVIROTECH YARD LFTRANSPORTER KELLY OILFIELD SERVICESDATE 9-12-15 JOB # 1195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	ENVIROTECH YARD LF	CEMENT FILL		20			5015	7:00	Bachul
2	"	"		20			502-5	7:05	Minor Lugo
3	"	"		20			503-5	7:10	Arden sb
4	"	"		10			DT03	7:56	Johnnie Brown
5	"	"		20			DT#2	8:45	Janeiro =
6	"	"		20			5015	10:30	Bachul
7	"	"		20			5025	10:40	Minor Lugo
8	"	"		20			5035	10:50	Arden sb
9	"	"		10			DT#3	11:25	Johnnie Brown
10	"	"		20			DT#2	11:43	Janeiro =
RESULTS		LANDFARM EMPLOYEE	180		NOTES				
CHLORIDE TEST		Bachul							
PAINT FILTER TEST		Certification of above receipt & placement							

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **53017**
GENERATOR ENVIROTECH
POINT OF ORIGIN LANDFARM
TRANSPORTER KELLY OIL FIELD
DATE 13 SEP 15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	ENCANA LYBROOK 2R	CLEAN FILL		20			501-5	1400	Berhn
2	"	"		20			502-5	1400	Munoz
3	"	"		20			503-5	1415	Carroll
4	"	"		20			DT-2	1435	Levi
5	"	"		10			DT-3	1455	Thompson
6	"	"		20			DT-2	1740	Levi
				110					
RESULTS		LANDFARM EMPLOYEE		NOTES					
<input checked="" type="checkbox"/>	CHLORIDE TEST	<input checked="" type="checkbox"/>							
<input checked="" type="checkbox"/>	PAINT FILTER TEST	<input checked="" type="checkbox"/>							
Certification of above receipt & placement									

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy

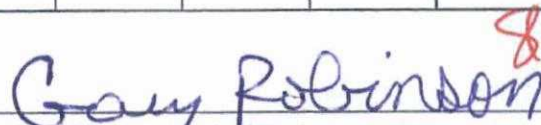


envirotech

Bill of Lading

MANIFEST # **53054**
 GENERATOR E-tech
 POINT OF ORIGIN Land Farm
 TRANSPORTER Kelly Oil Field
 DATE 9-16-15 JOB # 1195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	ENCA NE Lybrook 2R	Clean Fills	—	20	—	—	5015	1011	Bachul
2	"	"	—	10	—	—	D+03	1139	John Zomer
3	"	"	—	20	—	—	02	13:55	Emerson
4	"	"	—	20	—	—	501	14:10	Bachul
					70				
RESULTS		LANDFARM EMPLOYEE	<div style="text-align: center;">  Certification of above receipt & placement </div>						
<input checked="" type="checkbox"/> CHLORIDE TEST <input checked="" type="checkbox"/> PAINT FILTER TEST									
			NOTES						

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **53059**
GENERATOR Envirotech
POINT OF ORIGIN Landfarm
TRANSPORTER Kelly Oil Field Serv
DATE 9-17-15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1.	Encana Cybrook 2R	Clean fill	—	20	—	—	DT-02	700	Emerson
2.	" "	" "	—	20	—	—	501.5	700	Booth
3.	" "	" "	—	20	—	—	502.5	700	Mirza Juega
4.	" "	" "	—	20	—	—	503.5	700	John B...
5.	Encana Cybrook 2R	Clean fill	—	10	—	—	DT-03	700	Ron...
6.	" "	" "	—	20	—	—	DT-02	1055	Emerson
7.	" "	" "	—	20	—	—	5015	1120	Booth
8.	" "	" "	—	20	—	—	5025	1140	Mirza Juega
9.	" "	" "	—	20	—	—	503	1155	Ron...
10.	" "	" "	—	10	—	—	03	12:25	John B...

RESULTS		LANDFARM EMPLOYEE <u>180</u> Certification of above receipt & placement	NOTES
<input checked="" type="checkbox"/>	CHLORIDE TEST		
<input checked="" type="checkbox"/>	PAINT FILTER TEST		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

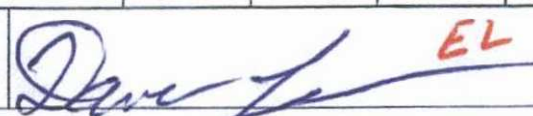
DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **53063**
GENERATOR Envirotech
POINT OF ORIGIN LARFARM
TRANSPORTER Kelly Oil Field
DATE 9-17-15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	ENCANA Lybrook 2R	Clean Fill	—	20	—	—	02	14:15	Emerson
2	"	"	—	20	—	—	501	14:30	Rachal
3	"	"	—	20	—	—	502	15:05	Miguel Arriaga
4	"	"	—	20	—	—	503	15:20	Ron A
5	"	"	—	10	—	—	03	16:35	John Bon
6	"	"	—	20	—	—	502	18:00	Miguel Arriaga
7	"	"	—	20	—	—	503	18:45	Ron A
				130					
RESULTS		LANDFARM EMPLOYEE	 EL			NOTES			
<input checked="" type="checkbox"/> CHLORIDE TEST	<input checked="" type="checkbox"/>	Certification of above receipt & placement							
<input checked="" type="checkbox"/> PAINT FILTER TEST	<input checked="" type="checkbox"/>								

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



envirotech

Bill of Lading

MANIFEST # **53068**
 GENERATOR Enviro Tech
 POINT OF ORIGIN Land Farm
 TRANSPORTER Kelley Oil Field Serv
 DATE 9-18-15 JOB # 11195-0191

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1.	<u>Enneana</u> <u>4th road 2R</u>	<u>Clean f&H</u>	<u>-</u>	<u>20</u>	<u>-</u>	<u>-</u>	<u>504.5</u>	<u>800</u>	<u>[Signature]</u>
2	<u>h</u>	<u>h</u>	<u>-</u>	<u>20</u>	<u>-</u>	<u>-</u>	<u>DT-2</u>	<u>1015</u>	<u>[Signature]</u>
3	<u>"</u>	<u>"</u>	<u>"</u>	<u>20</u>	<u>-</u>	<u>-</u>	<u>504</u>	<u>11:05</u>	<u>[Signature]</u>
4	<u>"</u>	<u>"</u>	<u>"</u>	<u>20</u>	<u>-</u>	<u>-</u>	<u>503</u>	<u>11:35</u>	<u>[Signature]</u>
<u>void this line</u>									
5	<u>"</u>	<u>"</u>	<u>"</u>	<u>20</u>	<u>-</u>	<u>-</u>	<u>504</u>	<u>14:30</u>	<u>[Signature]</u>
				<u>100</u>					
RESULTS		LANDFARM EMPLOYEE	<div style="display: flex; align-items: center;"> <div> <p>Certification of above receipt & placement</p> </div> </div>						
<input checked="" type="checkbox"/> CHLORIDE TEST <input checked="" type="checkbox"/> PAINT FILTER TEST									
			NOTES						

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy

1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1600 Rio Bonos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

FORM A-138
Revised August 1, 2011

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Encana Oil and Gas (USA) Inc., 6584 E Main St., Farmington, NM 87402	
2. Originating Site: Location Name: <u>Lybrook No. 002 R</u>	
3. Location of Material (Street Address, City, State or ULSTR): UL/Lot: <u>I</u> Section <u>22</u> T <u>24</u> N R <u>07W</u>	
4. Source and Description of Waste: <u>Crude oil contaminated soil & gravel from Production Spill</u> Estimated Volume <u>100</u> (yd ³) bbls Known Volume (to be entered by the operator at the end of the haul) <u>90/5</u> yd ³ / bbls <u>6/22/2015 - 7/22/2015</u>	
5. <u>Tucker Smith</u> GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>Tucker Smith</u> representative or authorized agent for <u>Encana Oil & Gas (USA) Inc.</u> do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste. Operator Use Only: Waste Acceptance Frequency <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input checked="" type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)	
6. <u>Tucker Smith</u> GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, <u>Tucker Smith</u> representative for <u>Encana Oil & Gas (USA) Inc.</u> authorize Envirotech to complete the required testing/sign Generator Signature the Generator Waste Testing Certification. I, <u>Kendra Runing</u> representative for <u>Envirotech, Inc.</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.	
5. Transporter: <u>Various Kelley Oil Field</u>	

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011

Address of Facility: #43 Road 7175, South of Bloomfield NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Kendra Runing

TITLE: Waste Coordinator DATE: 6-22-15

SIGNATURE: Kendra Runing
Surface Waste Management Facility Authorized Agent

TELEPHONE NO: 505-632-0615

1625 N French Dr., Hobbs NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection

FORM A-1.5b
Revised August 1, 2011

11195-0191

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Encana Oil and Gas (USA) Inc., 6584 E Main St., Farmington, NM 87402

2. Originating Site:
Location Name: Lybrook No. 002 R

3. Location of Material (Street Address, City, State or ULSTR):
UL/Lot: I Section 22 T 24 N R 07 W

4. Source and Description of Waste:
Crude oil contaminated soil & gravel from Production Spill 7-22-2015 to 8-22-2015
Estimated Volume 100 (yd) bbls Known Volume (to be entered by the operator at the end of the haul) 72 (yd) bbls

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

1. Tucker Smith representative or authorized agent for Encana Oil & Gas (USA) Inc. do hereby

certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

1. Tucker Smith representative for Encana Oil & Gas (USA) Inc. authorize Envirotech to complete the required testing/sign Generator Signature the Generator Waste Testing Certification.

1. E. J. representative for Envirotech Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter:
Various Kelley Oilfield

OCD Permitted Surface Waste Management Facility

Name and Facility Permit: Envirotech Inc. Soil Remediation Facility Permit: NM-01-0011

Address of Facility: #4 Road 7175 South of Bloomfield NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME Eric Liese

SIGNATURE E. Liese

DATE Landfarm Administrator 7-22-15

PHONE NO 505-632-0615

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

11195-0191

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Encana Oil & Gas (USA) Inc. 6584 E Main St., Farmington, NM 87402
2. Originating Site: Well Name: Lybrook 002R
3. Location of Material (Street Address, City, State or ULSTR): UL/Lot: I Section: 22 Township: 24N Range: 07W
4. Source and Description of Waste: Crude Oil contaminated soil and from spill on E&P Production location. Spill was from an overflowed production tank. 9/1/2015 to 10/1/2015
Estimated Volume 1,000 yd ³ / bbls Known Volume (to be entered by the operator at the end of the haul) 1374 yd ³ / bbls

5. Tucker Smith GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
I, Tucker Smith, representative or authorized agent for Encana Oil & Gas (USA) Inc. do hereby
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988
regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-
exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by
characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261,
subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check
the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

Encana Oil & Gas (USA) Inc. authorizes Envirotech, Inc. to complete the Generator 19.15.36.15 Waste Testing Certification
Statement. Tucker Smith Tucker Smith

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Eric Liesel, representative for Envirotech Inc. do hereby certify that
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples
have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results
of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of
19.15.36 NMAC.

5. Transporter: Kelley Oilfield Svc

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit #NM-01-0011

Address of Facility: Hilltop, New Mexico

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Eric Liesel

TITLE: Landfarm Administrator DATE: 9-8-15

SIGNATURE: Eric Liesel
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-632-0615