

Devon Energy Production Co LP Todd 22B Fed 2 Closure Report

2RP-1671
2RP-3640

Unit Letter B, Section 22, T23S, R31E
Eddy County, New Mexico

30-015-32203

February 23, 2017



Prepared for:

Devon Energy Production Co., LP
PO Box 250
Artesia, New Mexico 88211

By:

Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240
(575) 397-0510

TABLE OF CONTENTS

I. COMPANY CONTACTS.....	1
II. BACKGROUND.....	1
III. SURFACE AND GROUND WATER.....	1
IV. CHARACTERIZATION.....	2
V. WORK PERFORMED.....	2
VI. REQUEST FOR CLOSURE.....	3
VII. FIGURES & APPENDICES	4
Figure 1 – Vicinity Map.....	4
Figure 2 – Site Plan	4
Appendix A – C-141	6
Appendix B – Groundwater	7
Appendix C – Analytical Results.....	8
Appendix D – Photo Documentation	9

Todd 22B Fed 2

May 23, 2017

Devon Energy Production

Eddy County, New Mexico

I. Company Contacts

Representative	Company	Telephone	E-mail
Brett Fulks	Devon Energy Prod.	575-748-1844	Brett.Fulks@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy to perform site delineation on the Todd 22B Fed 2 Battery, concerning several releases comprising of produced water and crude. This site is situated in Eddy County, Section 22, Township 23S, and Range 31E.

According to the C-141: Upon arriving at the Todd 22 Battery location the production field tech for Devon, discovered that the 500 bbl. fiberglass tank had ruptured as a result of the gas venting from production vessels with high gas pressures. 22 bbl. of fluid were not recovered out of the 450 bbl inside the bermed area. Devon Energy took proactive measures recovering most of the fluid, and by plumbing all gas vent lines into open top 50bbl. fiberglass vent tank to keep gas off of the stock and produced water tanks. Immediate notice was provided to Mr. Mike Bratcher with the NMOCD and assigned remediation permit number *NLRN0428054360.

According to the C-141: A lease operator arrived on location to discover an open top vent tank running over resulting in a spill of approximately 60bbbls of produced water mixed with 5bbbls of oil. After further investigation the operator discovered that some rubber had caused a back pressure valve on the separator to plug off, over pressure the separator and send all gas as well as fluid to the vent tank. The spill remained on the caliche location. A Vacuum truck was dispatched and utilized to pick up 60 bbl. of produced water, thereby minimizing the impacted area. This was approved by the NMOCD on June 03, 2013 and issued permit number *2RP-1671.

According to the C-141: A manway gasket located on the horizontal heater failed. This resulted in a release of fluid to the interior of the bermed area with some escaping the bermed containment. There was a small amount of overspray onto vegetation on the Southwest side of the pad area. The line was isolated from production in order to prevent further release. The equipment was tagged and locked until repairs could be made. A vacuum truck was dispatched and recovered approximately 45 Bbl. of the fluid. The NMOCD and BLM were notified on April 06, 2016 respectively. The C-141 filed and stamped by the same on April 07, 2016 assigning this event number *2RP-3640.

***Note the aforementioned spill events all occurred in the same vicinity (site plan).**

III. Surface and Ground Water

There is no record of groundwater in the immediate vicinity of this site location. According to the topography map for Eddy County the depth to ground water for Section 22, Township 23S, Range 31E is approximately 180' bgs. Further research of the New Mexico Office of the State Engineer records indicate the average depth to groundwater for the area to be 232' bgs.

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX), and 5,000 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 250 mg/kg (PPM) is also required.

Depth to Ground Water:			
(Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	20 points	
	50 feet to 99 feet	10 points	
	>100 feet	0 points	X
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	X
Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	20 points	
	200 feet to 1000 feet	10 points	
	>1000 feet	0 points	X
RANKING SCORE (TOTAL POINTS)			0

V. Work Performed

On April 14, 2016 SESI was onsite to photograph, assess and map the spill areas.

On April 18, 2016 SESI personnel returned to the site, in order to complete the vertical delineation of the impacted areas. Whereby, it was determined that two (2) auger holes would be advanced inside the bermed area, and a single auger hole would be advanced in the pad area where it appeared the fluid had “pooled” indicating possibly the most dense impact. Representative soil samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico and analyzed for Chloride (Cl⁻) (Method SM 4500Cl-B), Benzene, Toluene, Ethylbenzene, Xylene (BTEX 8021B), and Total Petroleum Hydrocarbons (TPH Method 8015M). The results of the analysis are presented in the table below:

Sample Date	Depth	Chloride (mg/kg)	BTEX	TPH	
04/18/16					
Sample ID				GRO	DRO
AH-1	Surface	848	<0.300	<10.0	67.6
AH-1	1ft.	160	<0.300	<10.0	<10.0
AH-2	Surface	1010	<0.300	<50.0	2360
AH-2	1ft.	416	<0.300	<50.0	294
AH-2	2ft.	96.0	<0.300	<10.0	<10.0
AH-3	Surface	5760	<0.300	<10.0	<10.0
AH-3	1ft.	3760	<0.300	<10.0	<10.0
AH-3	2ft.	<16.0	<0.300	<10.0	<10.0

Todd 22B Fed 2

Devon Energy Production

May 23, 2017

Eddy County, New Mexico

On February 03, 2017, pursuant to request from NMOCD, personnel revisit the site to obtain confirmation samples of the over spray area that is located outside the bermed area. Two soil samples were grabbed, properly packaged, preserved, and transported to Cardinal Laboratories, of Hobbs, NM via Chain of Custody to analyzed for Chloride (Cl⁻) (Method SM 4500Cl-B), Benzene, Toluene, Ethylbenzene, Xylene (BTEX 8021B), and Total Petroleum Hydrocarbons (TPH Method 8015M). The results of the analysis are presented in the table below:

Todd 22 Cardinal Laboratory Results 02-03-17			
Sample ID	BTEX	Chloride	TPH
SP-1	<0.300	112	<10.0
SP-2	<0.300	16	<10.0

On February 8, 2017 SESI personnel is onsite with TexMex Backhoe, operator and three laborers to continue excavating the release areas. SESI is onsite to begin obtaining confirmation soil samples and field testing for Chlorides. The release area being excavated to six inches was completed and backfilling began. The backhoe continued excavating the pad area and hauling off the spoils using a twelve yard dump truck. All confirmation soil sample field test results were under the 1000 ppm. The excavation and sample points were mapped using the Juno 3B and site photos were taken. All soil samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico and analyzed for Chloride (Cl⁻) (Method SM 4500Cl-B), Benzene, Toluene, Ethylbenzene, Xylene (BTEX 8021B), and Total Petroleum Hydrocarbons (TPH Method 8015M). The results of the analysis are presented in the table below:

Todd 22B Fed 2**May 23, 2017****Devon Energy Production****Eddy County, New Mexico**

**Todd 22B
Cardinal Laboratories
Results: 2/08/2017**

SAMPLE ID	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	Chlorides	TPH GRO	TPH DRO
SP-3 East Wall	<0.050	<0.050	<0.050	<0.150	<0.300	96.0	<10.0	<10.0
SP-4 West Wall	<0.050	<0.050	<0.050	<0.150	<0.300	64.0	<10.0	<10.0
SP-5 West Wall	<0.050	<0.050	<0.050	<0.150	<0.300	96.0	<10.0	<10.0
SP-6 North Wall	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	<10.0	<10.0
SP-7 South Wall	<0.050	<0.050	<0.050	<0.150	<0.300	64.0	<10.0	<10.0
SP-8 Bottom	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	<10.0	<10.0
SP-9 Bottom	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	<10.0	<10.0
SP-10 Bottom	<0.050	<0.050	<0.050	13.9	17.6	192	4430	1570
SP-11 Bottom	<0.050	<0.050	<0.050	<0.150	<0.300	576	<50.0	3880

VI. Request for Closure

The results of the confirmation sampling indicate that all soils impacted above 5000 ppm TPH and 1000 ppm Chlorides were removed and transported to an approved NMOCD facility for disposal. The area was backfilled with clean soil and returned to grade. Devon Energy Production respectfully submits this closure report for your consideration, and requests that no further action be required.

VII. Figures & Appendices

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Appendix A – C-141

Appendix B – Groundwater

Appendix C – Analytical Results

Appendix D – Photo Documentation

Figure 1 Vicinity Map

Todd 22B Fed 2

2BBLS Oil & 48 BBLS PW



This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

WGS_1984_Web_Mercator_Auxiliary_Sphere
Prepared by: Dana DeLaRosa
Map is current as of: 06-Apr-2016



Miles

0 0.00 0.01 0.02 1:889

S22,T23S,R31E



2BBLS Oil & 48BBLS PW

Todd 22B Fed 2
May 23, 2017

Devon Energy Production
Eddy County, New Mexico

Figure 2 Site Plan

Delineation-Excavation Map

Legend

- AH 1 @ 5ft
- Excavation
- SP



Todd 22B FED 001
May 23, 2017

Devon Energy Production
Eddy County, New Mexico

Appendix A

C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

30-015-32203

Release Notification and Corrective Action *Todd 22B Fed. #2*

NLRN 0428054360

OPERATOR

Initial Report Final Report

Name of Company: Devon Energy Production Co. LP	Contact: Jennifer Van Curen
Address: PO Box 250; Artesia, NM 88211	Telephone No.: 505-748-0160
Facility Name: Todd 22 Battery	Facility Type: Battery

Surface Owner <i>BLM</i>	Mineral Owner	Lease No. NMNM0405444A
--------------------------	---------------	------------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>B</i>	22	23S	31E	510	North	1980	East	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release: Water	Volume of Release: 432	Volume Recovered: 428
Source of Release: Damaged PW tank	Date and Hour of Occurrence 9-20-04; 5:00 am	Date and Hour of Discovery 9-20-04; 5:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher	
By Whom?	Date and Hour: 9-20-04; 5:00 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED

SEP 24 7 00 A

OCD-ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Upon Arrival, found 500 bbl fiberglass tank had ruptured because gas vented from production vessels with high gas pressures. 20 bbl water and 2 bbl oil was not recovered out of 446 bbl Water and 4 bbl oil inside berm. Property Damage cost is approx. \$9000.00. Preventative Action: Plumbed all gas vent lines into open top 50 bbl fiberglass tank to keep gas off the stock and produced water tanks.

Describe Area Affected and Cleanup Action Taken.*
Area Affected: 20' X 20' within the firewall. Corrective Action: Visited with Paul Evans with Carlsbad office BLM, and he wants us to till and air soil. Then use the contaminated soil to build firewall up. Driveway chat will then be hauled in to replace the scraped soil.

Please see attached closure report. Requesting closure of this incident.

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: <i>Jennifer Van Curen</i>	OIL CONSERVATION DIVISION	
	Approved by District Supervisor:	
Printed Name: Jennifer Van Curen	Approval Date:	Expiration Date:
Title: Production Field Tech	Conditions of Approval:	
E-mail Address: Jennifer.vancuren@dvn.com	Attached <input type="checkbox"/>	
Date: 9/22/2004	Phone: 748-0160	

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

Use Newer
Form ->

Form C-141
Revised March 17, 1999

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

nJMW1315429438 OPERATOR Initial Report Final Report

Name of Company Devon Energy 6187	Contact Daniel Suniga, Foreman
Address P. O. Box 250 Artesia, NM 88211	Telephone No. 575-390-5850
Facility Name Todd 22B Fed #2 30-015-32203	Facility Type Oil Well

Surface Owner	Mineral Owner	Lease No.
---------------	---------------	-----------

LOCATION OF RELEASE *Include API #.*

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	22	23S	31E	510	North	1980	East	Eddy County

NATURE OF RELEASE

Type of Release Spill Open Vent Tank	Volume of Release 70bbls PW/5bbls Oil	Volume Recovered 60bbls PW/ 5bbls Oil
Source of Release 60 bbls of Produced Water, 5bbls of Oil	Date and Hour of Occurrence 05/11/13, 10:00 AM	Date and Hour of Discovery 05/11/13, 10:00AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM - Lorraine Chavez, OCD - Mike Bratcher	
By Whom? Wesley Ryan, Assistant Foreman	Date and Hour 05/13/2013, BLM 8:49AM, OCD 8:30AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
N/A

RECEIVED
MAY 30 2013

Describe Cause of Problem and Remedial Action Taken.*
(Spill Class II No-SIF) At the Todd 22B Fed #2 battery, a lease operator arrived to discover an open top vent tank running over resulting in a spill of 60bbls of produced water and 5bbls of oil.

NMOCD ARTESIA

Describe Area Affected and Cleanup Action Taken.*
(Spill Class II No-SIF) At the Todd 22B Fed #2 battery, a lease operator arrived to discover an open top vent tank running over resulting in a spill of 60bbls of produced water and 5bbls of oil. After investigating the cause of the spill the operator discovered that some rubber had caused a back pressure valve on the separator to plug off, over pressure the separator and send all gas and fluid to the vent tank. The spill remained on the caliche location. A vacuum truck was called to pick as much fluid as possible. The truck was able to pick up 60bbls of produced water and 5bbls of oil. The total fluid lost was 10bbls of produced water and 5bbls of oil. Please see attached closure report. Requesting closure of this incident.

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: Veronica Teel	OIL CONSERVATION DIVISION	
Printed Name: Veronica Teel	Approved by District Supervisor	Signed By <i>Mike Bratcher</i>
Title: Field Admin. Support	Approval Date: JUN 03 2013	Expiration Date:
Date: 05/13/13 Phone: (575) 748-9933	Conditions of Approval:	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

Remediation per OCD Rule &
Guidelines. **SUBMIT REMEDIATION**

PROPOSAL NO LATER THAN:

July 3, 2013

2RP-11071

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

OIL CONSERVATION
ARTESIA DISTRICT State of New Mexico
Energy Minerals and Natural Resources
APR 07 2016
RECEIVED Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

DAB1609941598

Name of Company Devon Energy Production Company 6137	OPERATOR	<input checked="" type="checkbox"/> Initial Report	<input checked="" type="checkbox"/> Final Report
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Contact Enrique Campos, Production Foreman		
Facility Name Todd 22B Fed 2	Telephone No. 575.513.1933		
Facility Type Gas			
Surface Owner Federal	Mineral Owner Federal	API No 30-015-32203	

LOCATION OF RELEASE

Unit Letter B	Section 22	Township 23S	Range 31E	Feet from the 510	North/South Line FNL	Feet from the 1980	East/West Line FEL	County Eddy
------------------	---------------	-----------------	--------------	----------------------	-------------------------	-----------------------	-----------------------	----------------

Latitude: 32.29576

Longitude: 103.76357

NATURE OF RELEASE

Type of Release Oil & Produced Water	Volume of Release 2BBLS Oil & 48BBLS PW	Volume Recovered 1BBL Oil & 44BBLS PW
Source of Release Manway gasket on horizontal separator	Date and Hour of Occurrence 4/5/2016 @ 1:52pm	Date and Hour of Discovery 4/5/2016 @ 1:52pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD-Shelly Tucker BLM-Mike Bratcher	
By Whom? Jeremy Porras, Assistant Production Foreman	Date and Hour OCD-4/6/2016 @ 3:10pm BLM-4/6/2016 @ 3:05pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
The manway gasket located on the horizontal heater gave out causing 2 BBLS oil and 48 BBLS produced water to be released. The line was isolated from production to prevent further release. The equipment was tagged and locked until repairs are made.

Describe Area Affected and Cleanup Action Taken.*
2BBLS oil and 48BBLS of produced water was released and 1BBL oil and 44BBLS produced water was recovered via vacuum truck. The release originated from the manway gasket on the horizontal heater on the Southwest side of pad. Oil and produced water was released into the bermed containment surrounding the equipment. Approximately 3 gallons of oil and 2BBLS of PW escaped the bermed containment. Approximately 2 gallons of oil and produced water mix sprayed in a fine mist onto the vegetation on the Southwest side of the pad. The approximate total size of the affected area was 30' x 30' on pad. An environmental agency will be contacted for remediation.
Please see attached closure report. Requesting closure of this incident.

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: Dana DeLaRosa	OIL CONSERVATION DIVISION	
Printed Name: Dana DeLaRosa	Signed By: <i>[Signature]</i> Approved by Environmental Specialist:	
Title: Field Admin Support	Approval Date: 4/7/16	Expiration Date: N/A
E-mail Address: dana.delarosa@dvn.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines checked <input type="checkbox"/> SUBMIT REMEDIATION PROPOSAL NO	
Date: 4-7-2016 Phone: 575.746.5594	LATER THAN: 5/11/16	

* Attach Additional Sheets If Necessary

2RP-3640

Appendix B Groundwater



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
C 02258	C	ED		3	2	26	23S	31E		618055	3571853*	662		
C 02348	C	ED		1	4	3	26	23S	31E	617648	3571068	700	430	270
C 02492	CUB	ED		4	4	4	06	23S	31E	612056	3577320*	135	85	50
C 02492 POD2	C	ED		3	2	2	07	23S	31E	611767	3576996	400	125	275
C 02664	CUB	ED		3	3	2	05	23S	31E	613049	3578138*	4291	354	3937
C 02725	CUB	ED		1	1	1	05	23S	31E	612240	3578731*	532		
C 02773	CUB	ED		4	1	3	03	23S	31E	615668	3577762*	880		
C 02774	CUB	ED		3	1	3	04	23S	31E	613857	3577745*	1660		
C 02775	CUB	ED		1	1	1	05	23S	31E	612240	3578731*	529		
C 02776	CUB	ED		2	1	1	05	23S	31E	612440	3578731*	661		
C 02777	CUB	ED		4	4	4	10	23S	31E	616974	3575662	890		
C 02865	CUB	ED		4	4	4	06	23S	31E	612056	3577320*	174		
C 02954 EXPL	CUB	ED		3	1	4	20	23S	31E	613114	3572906*	905		
C 03140	CUB	ED		4	2	4	04	23S	31E	615266	3577758*	684		
C 03351	C	ED		4	1	4	04	23S	31E	614917	3577861	320	168	152
C 03520 POD1	C	ED		3	1	1	07	23S	31E	610733	3576905	500		

Average Depth to Water: **232 feet**
 Minimum Depth: **85 feet**
 Maximum Depth: **430 feet**

Record Count: 16

PLSS Search:

Township: 23S **Range:** 31E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/25/19 1:13 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Todd 22B Fed 2
Devon Energy

Devon Energy Production
Eddy County, New Mexico

Appendix C – Analytical Results



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 11, 2017

Bob Allen
Safety & Environmental Solutions
703 East Clinton
Hobbs, NM 88240

RE: DEV-16-003

Enclosed are the results of analyses for samples received by the laboratory on 02/03/17 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	02/03/2017	Sampling Date:	02/03/2017
Reported:	02/11/2017	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP - 1 (H700280-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.22	111	2.00	1.91	
Toluene*	0.061	0.050	02/07/2017	ND	2.20	110	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.19	109	2.00	1.31	
Total Xylenes*	<0.150	0.150	02/07/2017	ND	6.18	103	6.00	1.32	
Total BTEX	<0.300	0.300	02/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/09/2017	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2017	ND	194	96.8	200	6.28	
DRO >C10-C28	<10.0	10.0	02/07/2017	ND	207	104	200	3.94	

Surrogate: 1-Chlorooctane 90.8 % 35-147

Surrogate: 1-Chlorooctadecane 98.8 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	02/03/2017	Sampling Date:	02/03/2017
Reported:	02/11/2017	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP - 2 (H700280-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2017	ND	2.22	111	2.00	1.91	
Toluene*	<0.050	0.050	02/07/2017	ND	2.20	110	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/07/2017	ND	2.19	109	2.00	1.31	
Total Xylenes*	<0.150	0.150	02/07/2017	ND	6.18	103	6.00	1.32	
Total BTEX	<0.300	0.300	02/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/09/2017	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2017	ND	194	96.8	200	6.28	
DRO >C10-C28	<10.0	10.0	02/07/2017	ND	207	104	200	3.94	

Surrogate: 1-Chlorooctane 78.6 % 35-147

Surrogate: 1-Chlorooctadecane 82.0 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Same

Attn:

Address:

City:

State:

Phone #:

Fax #:

Company Name: Safety and Environmental Solutions
 Project Manager: Bob Allen
 Address: 703 East Clinton, PO Box 1613
 City: Hobbs State: NM Zip: 88240
 Phone #: 575 397-0510 Fax #: 575 393-4388
 Project #: Dev-16-003 Project Owner:

Project Name:
 Project Location:
 Sampler Name:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

HTD0280

1 SP-1
 2 SP-2

(G)RAB OR (C)OMP.	
# CONTAINERS	5
GROUNDWATER	
WASTEWATER	
SOIL	X
OIL	
SLUDGE	
OTHER :	
ACID/BASE:	
ICE / COOL	X
OTHER :	

DATE	TIME
02/03	0930
02/03	0950

PH (8018)
 0376X
 Chromer

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

[Signature]

Date: 02/03/17

Time: 12:00

Received By:

[Signature]

Phone Result: Yes No
 Fax Result: Yes No
 Add'l Phone #: _____
 Add'l Fax #: _____

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#75 5.80

Sample Condition
 Cool Intact
 Yes No

CHECKED BY:

[Signature]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 17, 2017

Bob Allen
Safety & Environmental Solutions
703 East Clinton
Hobbs, NM 88240

RE: DEV-16-003

Enclosed are the results of analyses for samples received by the laboratory on 02/10/17 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	02/10/2017	Sampling Date:	02/08/2017
Reported:	02/17/2017	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP-3 EAST WALL (H700344-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTEX	<0.300	0.300	02/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 79.8 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/14/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/10/2017	ND	188	94.0	200	3.36	
DRO >C10-C28	<10.0	10.0	02/10/2017	ND	206	103	200	6.17	

Surrogate: 1-Chlorooctane 88.3 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	02/10/2017	Sampling Date:	02/08/2017
Reported:	02/17/2017	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP-4 WEST WALL (H700344-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTEX	<0.300	0.300	02/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.8 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/10/2017	ND	188	94.0	200	3.36	
DRO >C10-C28	<10.0	10.0	02/10/2017	ND	206	103	200	6.17	

Surrogate: 1-Chlorooctane 90.9 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	02/10/2017	Sampling Date:	02/08/2017
Reported:	02/17/2017	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP-5 WEST WALL (H700344-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTEX	<0.300	0.300	02/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.2 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/14/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/11/2017	ND	188	94.0	200	3.36	
DRO >C10-C28	<10.0	10.0	02/11/2017	ND	206	103	200	6.17	

Surrogate: 1-Chlorooctane 82.2 % 35-147

Surrogate: 1-Chlorooctadecane 96.2 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	02/10/2017	Sampling Date:	02/08/2017
Reported:	02/17/2017	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP-6 NORTH WALL (H700344-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTEX	<0.300	0.300	02/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.5 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/14/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/11/2017	ND	188	94.0	200	3.36	
DRO >C10-C28	<10.0	10.0	02/11/2017	ND	206	103	200	6.17	

Surrogate: 1-Chlorooctane 87.1 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	02/10/2017	Sampling Date:	02/08/2017
Reported:	02/17/2017	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP-7 SOUTH WALL (H700344-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTEX	<0.300	0.300	02/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.0 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/11/2017	ND	188	94.0	200	3.36	
DRO >C10-C28	<10.0	10.0	02/11/2017	ND	206	103	200	6.17	

Surrogate: 1-Chlorooctane 89.6 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	02/10/2017	Sampling Date:	02/08/2017
Reported:	02/17/2017	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP-8 BOTTOM (H700344-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2017	ND	1.68	83.8	2.00	0.0733	
Toluene*	<0.050	0.050	02/11/2017	ND	1.65	82.3	2.00	0.0907	
Ethylbenzene*	<0.050	0.050	02/11/2017	ND	1.65	82.6	2.00	0.0214	
Total Xylenes*	<0.150	0.150	02/11/2017	ND	4.69	78.1	6.00	0.153	
Total BTEX	<0.300	0.300	02/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.0 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/14/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/11/2017	ND	188	94.0	200	3.36	
DRO >C10-C28	<10.0	10.0	02/11/2017	ND	206	103	200	6.17	

Surrogate: 1-Chlorooctane 84.3 % 35-147

Surrogate: 1-Chlorooctadecane 98.7 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	02/10/2017	Sampling Date:	02/08/2017
Reported:	02/17/2017	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP-9 BOTTOM (H700344-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/15/2017	ND	1.89	94.3	2.00	1.60		
Toluene*	<0.050	0.050	02/15/2017	ND	1.77	88.6	2.00	1.12		
Ethylbenzene*	<0.050	0.050	02/15/2017	ND	1.78	89.1	2.00	1.15		
Total Xylenes*	<0.150	0.150	02/15/2017	ND	5.10	85.1	6.00	1.34		
Total BTEX	<0.300	0.300	02/15/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/14/2017	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/13/2017	ND	190	94.9	200	0.527	QR-03	
DRO >C10-C28	<10.0	10.0	02/13/2017	ND	207	104	200	1.24	QR-03	

Surrogate: 1-Chlorooctane 89.7 % 35-147

Surrogate: 1-Chlorooctadecane 98.7 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	02/10/2017	Sampling Date:	02/08/2017
Reported:	02/17/2017	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP-10 BOTTOM (H700344-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	02/15/2017	ND	1.89	94.3	2.00	1.60	
Toluene*	<2.00	2.00	02/15/2017	ND	1.77	88.6	2.00	1.12	
Ethylbenzene*	<2.00	2.00	02/15/2017	ND	1.78	89.1	2.00	1.15	
Total Xylenes*	13.9	6.00	02/15/2017	ND	5.10	85.1	6.00	1.34	
Total BTEX	17.6	12.0	02/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/14/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	4430	10.0	02/13/2017	ND	190	94.9	200	0.527		
DRO >C10-C28	1570	10.0	02/13/2017	ND	207	104	200	1.24		

Surrogate: 1-Chlorooctane 481 % 35-147

Surrogate: 1-Chlorooctadecane 96.9 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	02/10/2017	Sampling Date:	02/08/2017
Reported:	02/17/2017	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP-11 BOTTOM (H700344-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2017	ND	1.89	94.3	2.00	1.60	
Toluene*	<0.050	0.050	02/15/2017	ND	1.77	88.6	2.00	1.12	
Ethylbenzene*	<0.050	0.050	02/15/2017	ND	1.78	89.1	2.00	1.15	
Total Xylenes*	<0.150	0.150	02/15/2017	ND	5.10	85.1	6.00	1.34	
Total BTEX	<0.300	0.300	02/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/14/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/13/2017	ND	190	94.9	200	0.527	
DRO >C10-C28	3880	50.0	02/13/2017	ND	207	104	200	1.24	

Surrogate: 1-Chlorooctane 75.4 % 35-147

Surrogate: 1-Chlorooctadecane 149 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 21, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: DEV-16-003

Enclosed are the results of analyses for samples received by the laboratory on 04/19/16 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	04/19/2016	Sampling Date:	04/18/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-1 SURFACE (H600842-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	04/20/2016	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2016	ND	203	102	200	5.81	
DRO >C10-C28	67.6	10.0	04/19/2016	ND	231	116	200	6.11	

Surrogate: 1-Chlorooctane 134 % 35-147

Surrogate: 1-Chlorooctadecane 161 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	04/19/2016	Sampling Date:	04/18/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-1 1' (H600842-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15		
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81		
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65		
Total BTEX	<0.300	0.300	04/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/20/2016	ND	384	96.0	400	4.08		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/19/2016	ND	203	102	200	5.81		
DRO >C10-C28	<10.0	10.0	04/19/2016	ND	231	116	200	6.11		

Surrogate: 1-Chlorooctane 138 % 35-147

Surrogate: 1-Chlorooctadecane 158 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	04/19/2016	Sampling Date:	04/18/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-2 SURFACE (H600842-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	04/20/2016	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	04/19/2016	ND	203	102	200	5.81		
DRO >C10-C28	2360	50.0	04/19/2016	ND	231	116	200	6.11		

Surrogate: 1-Chlorooctane 133 % 35-147

Surrogate: 1-Chlorooctadecane 228 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	04/19/2016	Sampling Date:	04/18/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-2 1' (H600842-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	04/20/2016	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	04/19/2016	ND	203	102	200	5.81		
DRO >C10-C28	294	50.0	04/19/2016	ND	231	116	200	6.11		

Surrogate: 1-Chlorooctane 136 % 35-147

Surrogate: 1-Chlorooctadecane 188 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	04/19/2016	Sampling Date:	04/18/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-2 2' (H600842-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15		
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81		
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65		
Total BTEX	<0.300	0.300	04/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/20/2016	ND	384	96.0	400	4.08		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	04/19/2016	ND	203	102	200	5.81			
DRO >C10-C28	<10.0	10.0	04/19/2016	ND	231	116	200	6.11			

Surrogate: 1-Chlorooctane 149 % 35-147

Surrogate: 1-Chlorooctadecane 172 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	04/19/2016	Sampling Date:	04/18/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-3 SURFACE (H600842-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	04/20/2016	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2016	ND	203	102	200	5.81	
DRO >C10-C28	<10.0	10.0	04/19/2016	ND	231	116	200	6.11	

Surrogate: 1-Chlorooctane 141 % 35-147

Surrogate: 1-Chlorooctadecane 163 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	04/19/2016	Sampling Date:	04/18/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-3 1' (H600842-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	04/20/2016	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2016	ND	203	102	200	5.81	
DRO >C10-C28	<10.0	10.0	04/19/2016	ND	231	116	200	6.11	

Surrogate: 1-Chlorooctane 141 % 35-147

Surrogate: 1-Chlorooctadecane 163 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	04/19/2016	Sampling Date:	04/18/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	DEV-16-003	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: AH-3 2' (H600842-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15		
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81		
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65		
Total BTEX	<0.300	0.300	04/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/20/2016	ND	384	96.0	400	4.08		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/19/2016	ND	203	102	200	5.81		
DRO >C10-C28	<10.0	10.0	04/19/2016	ND	231	116	200	6.11		

Surrogate: 1-Chlorooctane 145 % 35-147

Surrogate: 1-Chlorooctadecane 164 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Safety and Environmental Solutions

Project Manager: Bob Allen

Address: 703 East Clinton, PO Box 1613

City: Hobbs State: NM zip: 88240

Phone #: 575 397-0510 Fax #: 575 393-4388

Project #: DEV-16-003 Project Owner:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	REMARKS		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:				ICE / COOL	OTHER :
<u>H000842</u>	<u>Att-1 Surface</u>		1	<input checked="" type="checkbox"/>									05/18	0910	Chlorides
	<u>Att-1 1st</u>		1	<input checked="" type="checkbox"/>									05/18	0930	TPH (8015)
	<u>Att-1 1st</u>		1	<input checked="" type="checkbox"/>									05/18	0945	BTEX
	<u>Att-2 Surfaces</u>		1	<input checked="" type="checkbox"/>									05/18	1020	
	<u>Att-2 1st</u>		1	<input checked="" type="checkbox"/>									05/18	1045	
	<u>Att-2 2nd</u>		1	<input checked="" type="checkbox"/>									05/18	1100	
	<u>Att-3 Surface</u>		1	<input checked="" type="checkbox"/>									05/18	1300	
	<u>Att-3 1st</u>		1	<input checked="" type="checkbox"/>									05/18	1320	
	<u>Att-3 2nd</u>		1	<input checked="" type="checkbox"/>									05/18	1340	

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature] Date: 05/19/16 Time: 1:00

Received By: [Signature] Date: 5/19/16 Time: 1:20

Delivered By: (Circle One) UPS 4.80
 Sampler - UPS - Bus - Other: UPS

Sample Condition: Cool Intact
 CHECKED BY: [Signature]

REMARKS:

Phone Result: Yes No
 Fax Result: Yes No
 Add'l Phone #:
 Add'l Fax #:
 Received Date: 5/19/16

**Todd 22B Fed 2
Devon Energy**

**Devon Energy Production
Eddy County, New Mexico**

Appendix D Site Photographs

Devon Energy
Todd 22B Fed 2



Looking North at impacted pad area



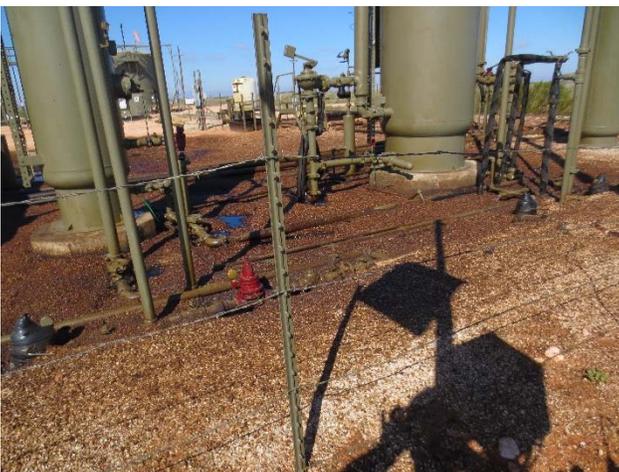
Standing fluid inside berm from SE corner



Standing Fluid inside berm SW corner



Impacted area inside berm NE Corner



Looking SW from center NE corner of bermed area



Looking SW from NE corner of bermed area

Devon Energy
Todd 22B Fed 2



Over-spray area looking West



Sprayed area looking Northwest



Sprayed area looking North



Spray area looking Southwest



Spray are looking West



Looking SE at impacted area inside berm

Devon Energy
Todd 22B Fed 2



Area of Auger hole 1



Auger hole 2



Auger hole 3 verification of depth



Indicating pooling area of Auger Hole 3

Devon Energy-Todd 22B Photos

Bermed Area Excavated



Bermed Area Excavated



Bermed Area Backfilled



Bermed Area Backfilled



Bermed Area Backfilled



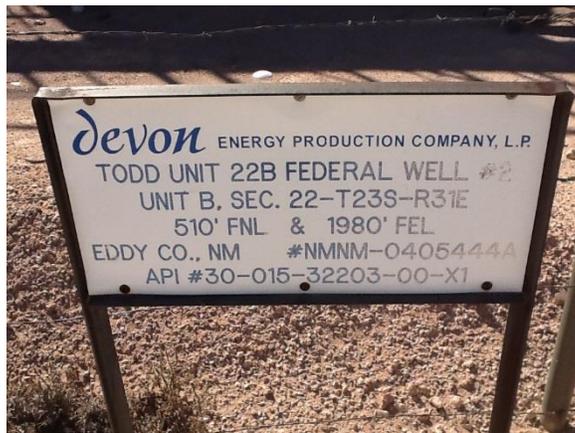
Outside Pad Area Excavated



Outside Pad Area Backfilled



Location Sign



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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	2RP-1671
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	
District RP	2RP-1671
Facility ID	
Application ID	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Amanda Davis Title: EHS Professional

Signature: *Amanda Davis* Date: _____

email: Amanda.Davis@dvn.com Telephone: 575-748-0176

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	2RP-1671
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Amanda Davis Title: EHS Professional

Signature: Amanda Davis Date: _____

email: Amanda.Davis@dvn.com Telephone: 575-748-0176

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Incident ID	
District RP	2RP-1671
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Amanda Davis Title: EHS Professional

Signature: Amanda Davis Date: _____

email: Amanda.Davis@dvn.com Telephone: 575-748-0176

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	2RP-3640
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	
District RP	2RP-3640
Facility ID	
Application ID	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Amanda Davis Title: EHS Professional

Signature: Amanda Davis Date: _____

email: Amanda.Davis@dvn.com Telephone: 575-748-0176

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	2RP-3640
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Amanda Davis Title: EHS Professional

Signature: Amanda Davis Date: _____

email: Amanda.Davis@dvn.com Telephone: 575-748-0176

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	2RP-3640
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Amanda Davis Title: EHS Professional

Signature: Amanda Davis Date: _____

email: Amanda.Davis@dvn.com Telephone: 575-748-0176

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jocelyn Harimon Date: 07/06/2022
Printed Name: _____ Title: Environmental Specialist

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 8135

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 8135
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	Please note that, when the well or facility is plugged or abandoned, the final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.	7/6/2022