



September 24, 2013

AMARILLO  
921 North Bivins  
Amarillo, Texas 79107  
Phone 806.467.0607  
Fax 806.467.0622

Mr. Mike Bratcher  
**NMOCD District 2**  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210

ARTESIA  
408 West Texas Ave.  
Artesia, New Mexico 88210  
Phone 575.746.8768  
Fax 575.746.8905

Subject: **Soil Assessment and Remediation Work Plan**  
Devon Energy Corporation  
Barclay 11 Fed #1 SWD Transfer Line  
30-015-25419

Dear Mr. Bratcher,

HOBBS  
318 East Taylor Street  
Hobbs, New Mexico 88240  
Phone 575.393.4261  
Fax 575.393.4658

Devon Energy Corporation (Devon) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

#### **Background Information**

MIDLAND  
2901 State Hwy 349  
Midland, Texas 79706  
Phone 432.522.2133  
Fax 432.522.2180

The Barclay 11 Fed #1 SWD Transfer Line is located approximately forty (40) miles southeast of Carlsbad, New Mexico. The legal location for this site is Unit Letter H of Section 11, Township 23 South, and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the location are 32.320113 North and -103.742201 West.

OKLAHOMA CITY  
7700 North Hudson Avenue  
Suite 10  
Oklahoma City, Oklahoma 73116  
Phone 405.486.7030  
Fax 806.467.0622

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Berino complex with 0 to 3 percent slopes, eroded. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene age eolian deposits. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 168-feet below ground surface (bgs), according to the New Mexico office of the State Engineer.

SAN ANTONIO  
13111 Lookout Way  
San Antonio, Texas 78233  
Phone 210.265.8025  
Fax 210.568.2191

The ranking for this site is **0** Based on the following:

Depth to ground water	>100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

Toll Free: 866.742.0742  
[www.talonlpe.com](http://www.talonlpe.com)

## Incident Description

The water transfer line running from the Barclay 11 Fed #1 SWD to the Todd 13 Fed #2 injection well developed a leak due to internal corrosion. The leak caused a release of approximately 50bbls of produced water (0bbls recovered). Talon mobilized personnel to conduct a site assessment and to perform soil sampling activities within the impacted area. Laboratory results from the soil sampling activities are summarized in the table below.

## Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	2	ND	5920	ND	ND
S-1	4	ND	5760	ND	ND
S-1	6	--	13000	--	--
S-1	8	--	15400	--	--
S-1	10	--	28000	--	--
S-2	2	ND	56000	ND	ND
S-2	4	ND	7040	ND	ND
S-2	6	--	6880	--	--
S-2	8	--	8720	--	--
S-2	10	--	384	--	--
S-3	2	ND	6080	ND	ND
S-3	4	ND	15000	ND	ND
S-3	6	--	13200	--	--
S-3	8	--	22400	--	--
S-3	10	--	25200	--	--
S-4	2	ND	6080	ND	ND
S-4	4	ND	16000	ND	ND
S-4	6	--	21400	--	--
S-4	8	--	24400	--	--
S-4	10	--	15400	--	--

(-- ) Analyte Not Tested

(ND) Analyte Not Detected

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, and 5,000 mg/kg for TPH.

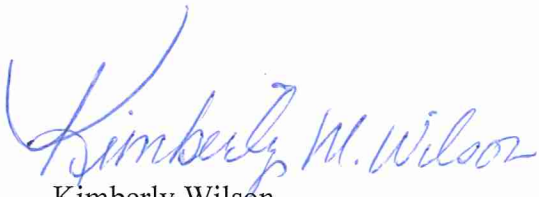
### Proposed Remedial Actions

- The impacted area will be excavated to a depth of at least 1-foot below the transfer line but no less than a depth of 4-feet bgs.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- A 20-mil reinforced liner will be placed in the bottom of the excavation to encapsulate the remaining chloride impacted soil.
- The excavation will be backfilled with sand, contoured to match the surrounding terrain, and seeded with BLM seed mixture #2.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE

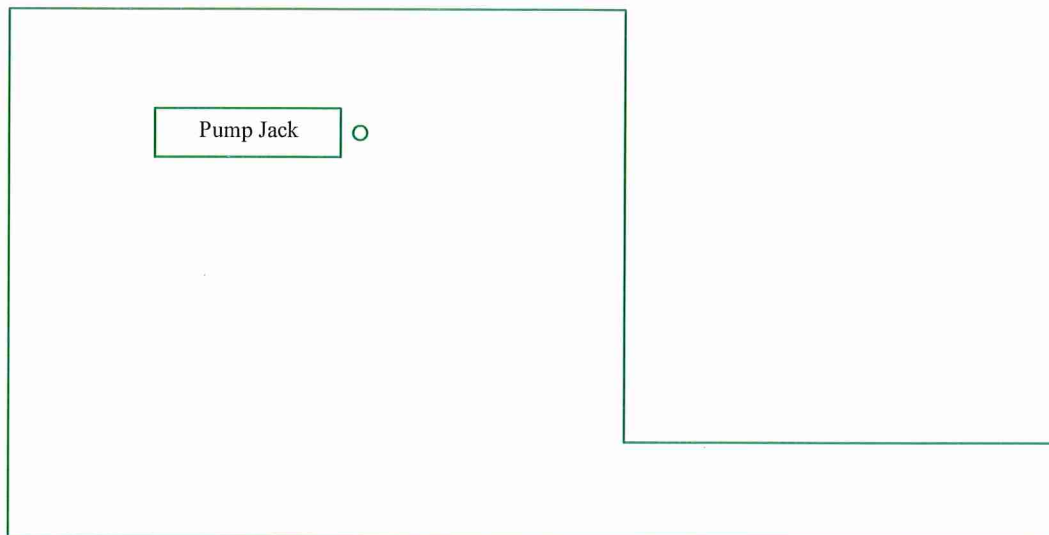


Kimberly Wilson  
Project Manager



David J. Adkins  
District Manager

# SITE PLAN



Pump Jack

PW Line

S-2

S-1

S-3

S-4



NTS



Scale in Feet

Legend

- Sample Location
- Impacted Areas



Date: 09/25/2014

Scale: NTS

Drawn By: TJS

Barclay 11 Fed #1 SWD  
Devon Energy Corporation  
Eddy County, New Mexico  
Figure 1 - Site Plan

# **GROUNDWATER DATA**

**INITIAL C-141**





# 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 Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 02777</a>	CUB	ED		4	4	4	10	23S	31E	616974	3575662	2016	890		
<a href="#">C 02773</a>		ED		4	1	3	03	23S	31E	615668	3577762*	2931	880		
<a href="#">C 03140</a>		ED		4	2	4	04	23S	31E	615266	3577758*	3320	684		
<a href="#">C 02756</a>		ED		3	4	4	26	22S	31E	618250	3580606*	3628	1998		
<a href="#">C 03152</a>		ED		3	4	4	26	22S	31E	618250	3580606*	3628	938		
<a href="#">C 03351</a>	C	ED		4	1	4	04	23S	31E	614917	3577861	3683	320	168	152
<a href="#">C 03138</a>		ED		3	3	3	26	22S	31E	617043	3580591*	3886	750		
<a href="#">C 02769 POD2</a>	C	ED		4	2	4	33	22S	31E	615261	3579312	3984	753	428	325

Average Depth to Water: **298 feet**

Minimum Depth: **168 feet**

Maximum Depth: **428 feet**

**Record Count: 8**

**UTM NAD83 Radius Search (in meters):**

**Easting (X):** 618495

**Northing (Y):** 3576986

**Radius:** 4000

\*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.

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

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

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

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Devon Energy Production	Contact	Wesley Ryan
Address	6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No.	575.390.5436
Facility Name	Barclay 11 Fed 1 SWD	Facility Type	SWD
Surface Owner	Federal	Mineral Owner	Federal
		API No.	30-015-27658

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	11	23S	31E	660	FNL	660	FEL	EDDY

Latitude:

Longitude:

### NATURE OF RELEASE

Type of Release Spill	Volume of Release	Volume Recovered
Produced Water	50 BBL	0 BBL
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Injection well leak	7/6/2014 12:54 PM	7/7/2014 11:00AM
Was Immediate Notice Given?	If YES, To Whom?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	Jeff Robertson BLM & Mike Bratcher OCD	
By Whom?	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

The water transfer line from the Barclay 11 Fed 1 SWD to the Todd 13 Fed 2 injection well developed a leak resulting in a spill of 50BBLs of produced water.

Describe Area Affected and Cleanup Action Taken.\*

July 6, 2014 Barclay 11 Fed 1- The lease operator for the area received an alarm for low discharge pressure and headed to see what the problem was. The operator began checking out the pump and began driving out the flow line when he discovered the leak. The steel flow line had developed a leak because of corrosion. Approximately 50BBLs of produced water was released onto the sandy pasture land. The produced water quickly soaked into the ground before any of it could be recovered. The line was isolated and notifications were made.

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>Jeanette Barron</i>	OIL CONSERVATION DIVISION		
Printed Name: <b>Jeanette Barron</b>	Approved by Environmental Specialist:		
Title: <b>Field Admin Support</b>	Approval Date:	Expiration Date:	
E-mail Address: <b>Jeanette.barron@dvn.com</b>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 7/7/14	Phone: 575.748.1813		

\* Attach Additional Sheets If Necessary



# LABORATORY RESULTS



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

August 12, 2014

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: BARCLAY 11 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 08/05/14 16:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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](http://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,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
KIMBERLY WILSON  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 08/05/2014  
Reported: 08/12/2014  
Project Name: BARCLAY 11 FED #1  
Project Number: 70079412101  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/31/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: S-1 2' (H402399-01)**

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	08/07/2014	ND	1.67	83.7	2.00	9.39	
Toluene*	<0.050	0.050	08/07/2014	ND	1.66	83.1	2.00	9.35	
Ethylbenzene*	<0.050	0.050	08/07/2014	ND	1.65	82.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	08/07/2014	ND	5.41	90.1	6.00	10.9	
Total BTEX	<0.300	0.300	08/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	08/08/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<20.0	20.0	08/07/2014	11.8	185	92.5	200	1.06	
DRO >C10-C28	<10.0	10.0	08/07/2014	ND	188	94.1	200	0.965	

Surrogate: 1-Chlorooctane 92.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
KIMBERLY WILSON  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 08/05/2014  
Reported: 08/12/2014  
Project Name: BARCLAY 11 FED #1  
Project Number: 70079412101  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/31/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: S-1 4' (H402399-02)**

BTX 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	08/07/2014	ND	1.67	83.7	2.00	9.39	
Toluene*	<0.050	0.050	08/07/2014	ND	1.66	83.1	2.00	9.35	
Ethylbenzene*	<0.050	0.050	08/07/2014	ND	1.65	82.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	08/07/2014	ND	5.41	90.1	6.00	10.9	
Total BTX	<0.300	0.300	08/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	08/08/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<20.0	20.0	08/07/2014	11.8	185	92.5	200	1.06	
DRO >C10-C28	<10.0	10.0	08/07/2014	ND	188	94.1	200	0.965	

Surrogate: 1-Chlorooctane 93.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.6 % 63.6-154

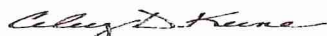
**Sample ID: S-1 6' (H402399-03)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13000	16.0	08/08/2014	ND	416	104	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
KIMBERLY WILSON  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 08/05/2014  
Reported: 08/12/2014  
Project Name: BARCLAY 11 FED #1  
Project Number: 70079412101  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/31/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: S-1 8' (H402399-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15400	16.0	08/08/2014	ND	416	104	400	3.92	

**Sample ID: S-1 10' (H402399-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28000	16.0	08/08/2014	ND	416	104	400	3.92	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

TALON LPE  
KIMBERLY WILSON  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 08/05/2014  
Reported: 08/12/2014  
Project Name: BARCLAY 11 FED #1  
Project Number: 70079412101  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/31/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

### Sample ID: S-2 2' (H402399-06)

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	08/07/2014	ND	1.67	83.7	2.00	9.39	
Toluene*	<0.050	0.050	08/07/2014	ND	1.66	83.1	2.00	9.35	
Ethylbenzene*	<0.050	0.050	08/07/2014	ND	1.65	82.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	08/07/2014	ND	5.41	90.1	6.00	10.9	
Total BTEX	<0.300	0.300	08/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	08/08/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<20.0	20.0	08/07/2014	11.8	185	92.5	200	1.06	
DRO >C10-C28	<10.0	10.0	08/07/2014	ND	188	94.1	200	0.965	

Surrogate: 1-Chlorooctane 90.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
KIMBERLY WILSON  
408 W. TEXAS AVE.  
ARTESTIA NM, 88210  
Fax To: (575) 745-8905

Received: 08/05/2014  
Reported: 08/12/2014  
Project Name: BARCLAY 11 FED #1  
Project Number: 70079412101  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/31/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: S-2 4' (H402399-07)**

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	08/07/2014	ND	1.67	83.7	2.00	9.39	
Toluene*	<0.050	0.050	08/07/2014	ND	1.66	83.1	2.00	9.35	
Ethylbenzene*	<0.050	0.050	08/07/2014	ND	1.65	82.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	08/07/2014	ND	5.41	90.1	6.00	10.9	
Total BTEX	<0.300	0.300	08/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7040	16.0	08/08/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<20.0	20.0	08/07/2014	11.8	185	92.5	200	1.06	
DRO >C10-C28	<10.0	10.0	08/07/2014	ND	188	94.1	200	0.965	

Surrogate: 1-Chlorooctane 92.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.2 % 63.6-154

**Sample ID: S-2 6' (H402399-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	08/08/2014	ND	416	104	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
KIMBERLY WILSON  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	08/05/2014	Sampling Date:	07/31/2014
Reported:	08/12/2014	Sampling Type:	Soil
Project Name:	BARCLAY 11 FED #1	Sampling Condition:	Cool & Intact
Project Number:	70079412101	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

**Sample ID: S-2 8' (H402399-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8720	16.0	08/08/2014	ND	416	104	400	3.92	

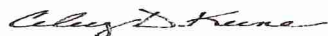
**Sample ID: S-2 10' (H402399-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	08/08/2014	ND	416	104	400	3.92	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
KIMBERLY WILSON  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 08/05/2014  
Reported: 08/12/2014  
Project Name: BARCLAY 11 FED #1  
Project Number: 70079412101  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/31/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: S-3 2' (H402399-11)**

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	08/07/2014	ND	1.67	83.7	2.00	9.39	
Toluene*	<0.050	0.050	08/07/2014	ND	1.66	83.1	2.00	9.35	
Ethylbenzene*	<0.050	0.050	08/07/2014	ND	1.65	82.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	08/07/2014	ND	5.41	90.1	6.00	10.9	
Total BTEX	<0.300	0.300	08/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	08/08/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<20.0	20.0	08/07/2014	10.9	178	88.8	200	4.58	
DRO >C10-C28	<10.0	10.0	08/07/2014	ND	182	90.8	200	7.33	

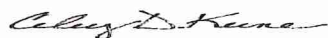
Surrogate: 1-Chlorooctane 85.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

TALON LPE  
KIMBERLY WILSON  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 08/05/2014  
Reported: 08/12/2014  
Project Name: BARCLAY 11 FED #1  
Project Number: 70079412101  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/31/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

### Sample ID: S-3 4' (H402399-12)

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	08/07/2014	ND	1.67	83.7	2.00	9.39	
Toluene*	<0.050	0.050	08/07/2014	ND	1.66	83.1	2.00	9.35	
Ethylbenzene*	<0.050	0.050	08/07/2014	ND	1.65	82.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	08/07/2014	ND	5.41	90.1	6.00	10.9	
Total BTEX	<0.300	0.300	08/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15000	16.0	08/08/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<20.0	20.0	08/07/2014	10.9	178	88.8	200	4.58	
DRO >C10-C28	<10.0	10.0	08/07/2014	ND	182	90.8	200	7.33	

Surrogate: 1-Chlorooctane 76.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.5 % 63.6-154

### Sample ID: S-3 6' (H402399-13)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	08/08/2014	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

TALON LPE  
KIMBERLY WILSON  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	08/05/2014	Sampling Date:	07/31/2014
Reported:	08/12/2014	Sampling Type:	Soil
Project Name:	BARCLAY 11 FED #1	Sampling Condition:	Cool & Intact
Project Number:	70079412101	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

**Sample ID: S-3 8' (H402399-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	08/11/2014	ND	400	100	400	4.08	

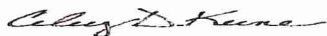
**Sample ID: S-3 10' (H402399-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	08/11/2014	ND	400	100	400	4.08	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
KIMBERLY WILSON  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 08/05/2014  
Reported: 08/12/2014  
Project Name: BARCLAY 11 FED #1  
Project Number: 70079412101  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/31/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: S-4 2' (H402399-16)**

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	08/07/2014	ND	1.67	83.7	2.00	9.39	
Toluene*	<0.050	0.050	08/07/2014	ND	1.66	83.1	2.00	9.35	
Ethylbenzene*	<0.050	0.050	08/07/2014	ND	1.65	82.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	08/07/2014	ND	5.41	90.1	6.00	10.9	
Total BTEX	<0.300	0.300	08/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	08/11/2014	ND	400	100	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	<20.0	20.0	08/07/2014	10.9	178	88.8	200	4.58	
DRO >C10-C28	<10.0	10.0	08/07/2014	ND	182	90.8	200	7.33	

Surrogate: 1-Chlorooctane 85.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
KIMBERLY WILSON  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 08/05/2014  
Reported: 08/12/2014  
Project Name: BARCLAY 11 FED #1  
Project Number: 70079412101  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/31/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: S-4 4' (H402399-17)**

BTX 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	08/07/2014	ND	1.67	83.7	2.00	9.39	
Toluene*	<0.050	0.050	08/07/2014	ND	1.66	83.1	2.00	9.35	
Ethylbenzene*	<0.050	0.050	08/07/2014	ND	1.65	82.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	08/07/2014	ND	5.41	90.1	6.00	10.9	
Total BTX	<0.300	0.300	08/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	08/11/2014	ND	400	100	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	<20.0	20.0	08/07/2014	10.9	178	88.8	200	4.58	
DRO >C10-C28	<10.0	10.0	08/07/2014	ND	182	90.8	200	7.33	

Surrogate: 1-Chlorooctane 90.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

**Sample ID: S-4 6' (H402399-18)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21400	16.0	08/11/2014	ND	400	100	400	4.08	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
KIMBERLY WILSON  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	08/05/2014	Sampling Date:	07/31/2014
Reported:	08/12/2014	Sampling Type:	Soil
Project Name:	BARCLAY 11 FED #1	Sampling Condition:	Cool & Intact
Project Number:	70079412101	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

**Sample ID: S-4 8' (H402399-19)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	24400	16.0	08/11/2014	ND	400	100	400	4.08			

**Sample ID: S-4 10' (H402399-20)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	15400	16.0	08/11/2014	ND	400	100	400	4.08			

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager





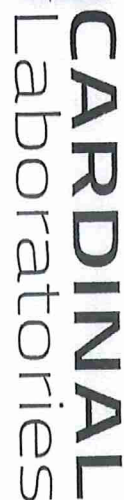
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

168 A

Company Name: <u>Telescope</u>		P.O. #:		BILL TO										ANALYSIS REQUEST																											
Project Manager: <u>K. J. Olson</u>		Company: <u>John</u>																																							
Address: <u>408 W Texas</u>		Attn:																																							
City: <u>Adrian</u>		Address:																																							
State: <u>NM</u> Zip: <u>88210</u>		City:																																							
Phone #: <u>575 746 8768</u> Fax #:		State:																																							
Project #: <u>70079412101</u> Project Owner:		Zip:																																							
Project Name: <u>Beckley II Fed #1</u>		Phone #:																																							
Project Location: <u>Edley G. Baccus</u>		Fax #:																																							
Sampler Name:																																									
FOR LAB USE ONLY																																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
1		S-1.2		/		/		/		/		/		/		/		/		/		/		/		/		/		/		Total Chlorides									
2		S-1.4		/		/		/		/		/		/		/		/		/		/		/		/		/		/		PH									
3		S-1.6		/		/		/		/		/		/		/		/		/		/		/		/		/		/		PTEx									
4		S-1.8		/		/		/		/		/		/		/		/		/		/		/		/		/		/											
5		S-1.10		/		/		/		/		/		/		/		/		/		/		/		/		/		/											
6		S-2.2		/		/		/		/		/		/		/		/		/		/		/		/		/		/											
7		S-2.4		/		/		/		/		/		/		/		/		/		/		/		/		/		/											
8		S-2.6		/		/		/		/		/		/		/		/		/		/		/		/		/		/											
9		S-2.8		/		/		/		/		/		/		/		/		/		/		/		/		/		/											
10		S-2.10		/		/		/		/		/		/		/		/		/		/		/		/		/		/											
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Delivered By: (Circle One)		Sampler - UPS - Bus - Other:		5.40 #54		Sample Condition		Cool		Intact		Checked By: (Initials)		Checked By: (Initials)		Checked By: (Initials)		Checked By: (Initials)		Checked By: (Initials)		Checked By: (Initials)		Checked By: (Initials)		Checked By: (Initials)		Checked By: (Initials)		Checked By: (Initials)											
REMARKS:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:																																	

+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



2 of 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476